2023 Monitoring and Inspection Report
Former Dzus Fastener Company, Inc. Site (152033)
West Islip, New York

Work Assignment No. D009806-15

Prepared for

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November 2024
Revision: FINAL
EA Project No. 16025-15-00-CP

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
AWQGV	Ambient Water Quality Guidance Values
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
EPA	U.S. Environmental Protection Agency
Impact Environmental	Impact Environmental Consulting, Inc.
mg/kg	Milligram(s) per kilogram
mg/L	Milligram(s) per liter
ng/L	Nanogram(s) per liter
ng/g	Nanogram(s) per gram
No.	Number
NYS	New York State
NYSDEC	New York Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU	Operable unit
PFAS	Per- and polyfluoroalkyl substances
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PVC	Polyvinyl chloride
ROD	Record of Decision
SGV	Sediment Guidance Value
Site	Former Dzus Fastener Company, Inc. Site
SMP	Site Management Plan
TAL	Target Analyte List

1. INTRODUCTION

This Site Monitoring and Inspection Report is a required element of the post-remediation Site Management Plan (SMP) (EA Engineering, P.C. and its affiliate EA Science and Technology [EA] 2023a) for the Former Dzus Fastener Company, Inc. Site located in West Islip, New York, hereinafter referred to as the Site (**Figure 1**). The Site is currently in the New York State Inactive Hazardous Waste Disposal Site Remedial Program (Site Number [No.] 152033), which is administered by the New York State Department of Environmental Conservation (NYSDEC).

1.1 PROJECT BACKGROUND

The Site is comprised of six operable units (OUs) (**Figure 2**):

- OU1—The former source area, consisting of stabilized areas of soil at the location of the Former Dzus Fastener Company Inc. facility
- OU2—The portion of the original cleanup efforts located along a portion of Willetts Creek (OU3), and the entirety of Lake Capri (OU4)
- OU3—The soil and sediment along a portion of Willetts Creek
- OU4—The soil and sediment within a portion of Willetts Creek and Lake Capri
- OU5—The tidal portion of Willetts Creek located south of Montauk Highway
- OU6—Documents the Resource Conservation and Recovery Act (RCRA) closure of the Former Dzus Fastener Company Inc. facility and will be redeveloped for future commercial use.

1.2 SITE HISTORY

The Site is located at 425 Union Boulevard, West Islip, New York, and is identified as P.O. Lots 2–8 and 101, 9 and 10, Block A on the Map of Babylon developed by the Long Island Seashore Company, Inc., filed 5 April 1921, File No. 92 in the Office of the County Clerk, Suffolk County. The on-site portion of the Site is comprised of two operable units (OU1 and OU6). These units are part of the same Suffolk County tax parcel that is located within a mixed industrial, commercial, and residential area, bounded by Long Island Railroad tracks to the north, Union Boulevard to the south, Willetts Creek to the east, and was previously bounded by the former Dzus Fastener Company Inc. (renamed DFCI Solutions, Inc. in 2001) facility to the west. OU1 is a triangularly shaped area approximately 1 acre in size. The buildings associated with the former facility comprise OU6 and were demolished in 2019. The on-site portion has been developed as commercial property containing a gas station and retail space, subject to local permitting and zoning. The boundaries of the Site are fully described in the 2014 and 2017 Deed Restrictions (EA 2022a). The Owner of the site parcel at the time of issuance of this report is Robert Monahan, c/o Island Associates, 444 Route 111, Smithtown, New York 11487. The off-site portions of the Site consist of OU2, OU3, OU4, and OU5.

The Dzus Fastener Company manufactured fasteners and springs from 1932 to 2015. The company was known as DFCI Solutions, Inc. between 2001 and 2015, although the operation of the facility remained the same. Operations included the design and manufacture of ¼-turn fasteners, 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. The wastes from the metal plating, tumbling, electroplating, chromic acid, anodizing, and special finishing operations consisted of oils, heavy metals, volatile organic compounds, and salts. Leaching pools, which have been remediated, were used for the disposal of hazardous wastes. Due to the direction of groundwater flow, these contaminants migrated off-site into the sediments and soils surrounding Willetts Creek and Lake Capri. The soils and sediments have been remediated and the groundwater is monitored.

Following the interim remedial measure in 1991, a Record of Decision (ROD) for OU1 was issued in March 1995 (NYSDEC 1995). The selected remedy, consisting of in situ stabilization/solidification for on-site soil containing cadmium at concentrations greater than 10 parts per million, was completed by December 1996.

In compliance with the October 1997 ROD for OU2, remedial action was taken in 1999. The ROD for OU2 (groundwater, and surface water, and sediment in Willetts Creek and Lake Capri) lists the metals contaminants of concern for groundwater as cadmium and chromium, surface water as cadmium, and sediment as cadmium and lead. The remedial action included dredging, dewatering, and off-site disposal of contaminated sediments from Willetts Creek and Lake Capri, riprap used to prevent future erosion of zones of contamination left in place, and implementation of a long-term groundwater monitoring program to evaluate the effectiveness of the on-site remedy. The extents of OU2 are now encompassed within OU3 and OU4.

Remedial investigations and Feasibility Studies were conducted between 2017 and 2018 at OU3 and OU4. OU3 is in a mixed-use area consisting of commercial properties at the north end, residential, and school properties along the western boundary, and residential properties along the eastern boundary. OU4 consists of private residential properties surrounding Lake Capri and downstream portion of Willetts Creek. In accordance with the RODs for OU3 (NYSDEC 2017) and OU4 (NYSDEC 2018), the soil was remediated to Unrestricted Use Soil Cleanup Objectives and sediment was remediated to Class A Sediment Guidance Values (SGVs).

OU5 was established following completion of the OU4 remedial investigation to include the tidal area of Willetts Creek downstream of Lake Capri and south of Montauk Highway to Babylon Cove. Investigation at OU5 includes sediment, surface water, and floodplain soils in the tidal area of Willets Creek south of Montauk Highway to its intersection with Babylon Cove. In accordance with the ROD for OU5 (EA 2022a), the selected remedy for this portion of the site is No Further Action (NFA).

OU6 is the Resource Conservation and Recovery Act-closed area of the Site, completed in 2017. Remedial actions for this OU included excavation and removal of contaminated soils, decontamination and washing of building floors and walls, installation and operation of a soil

vapor extraction system, and remediation and closure of contaminated leeching pools. After several sampling events, the soil vapor extraction system was dismantled, and all remaining extraction wells were capped and sealed. A Deed Restriction was issued in November 2017 (EA 2023a). Per the terms of the Deed Restriction, the property Owner must evaluate the potential for vapor intrusion at any newly constructed buildings prior to occupancy. The Owner must monitor or mitigate any identified potential soil vapor impacts.

1.3 OBJECTIVES

The monitoring/inspection process is used for determining if a remedy continues to be effectively managed as set forth in the SMP (EA 2023a). The objectives of the monitoring/inspection reports for sites in the State Superfund Program are as follows:

- Discuss all monitoring and inspection efforts completed
- Evaluate compliance with the decision document(s) and the SMP
- Present sampling results in comparison to appropriate standards/criteria
- Determine whether contaminant conditions have changed since the last reporting event
- Evaluate the condition of the remedy (performing properly and effectively and is protective of public health and the environment).
- Provide observations, conclusions, or recommendations for the Site.

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2. SITE MANAGEMENT ACTIVITIES

The following provides a brief summary of the monitoring, sampling, and maintenance activities performed in 2023 in accordance with the SMP.

Site Management Activities	Date of Activity
Monitoring	
1. OU1/OU6 visual inspection	January, May 2023
2. Wetland mitigation monitoring	October 2023
3. Synoptic gauging	January, March, June, November 2023
4. Monitoring well inspection	January 2023
5. Creek corridor inspection	January, October 2023
6. Residual material inspection (Captree Plaza & Montauk Highway)	January, October 2023
Sampling	
1. Sediment	January, March, June, November 2023
2. Surface water	January, March, June, November 2023
3. Groundwater	January, March, June, November 2023
4. Fish	June 2023
Maintenance	
1. Manual *Phragmites* removal	June and October 2023
2. Herbicide application to *Phragmites* stands	June and October 2023

Site monitoring and sampling activities took place over the course of four quarters. A summary of samples collected during 2023 field activities is shown in **Table 1**. Detailed summaries of site management activities can be found in Daily Field Reports located in **Appendix A**.

2.1 QUARTER ONE

2.1.1 January 2023 Synoptic Gauging/Well Inspection

A synoptic gauging event was completed on 17 January 2023, consisting of monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and MW-23B. Prior to gauging and sampling, all monitoring wells were inspected. Site monitoring wells were overall in good condition with concrete pads intact, well casings remained protective, and j-plugs secured to prevent infiltration of rain or standing water. In January 2023, field crew performed minor repairs on several wells which included installing new bolts. Gauging data from January 2023 are included in **Table 2**, and a gauging form is included in **Appendix A** for reference.

2.1.2 January 2023 Groundwater, Surface Water, and Sediment Sampling

On 17-18 January 2023, EA performed groundwater, surface water, and sediment sampling at locations marked on **Figure 3**. Field forms associated with the sampling can be found in **Appendix A**.

Groundwater samples were taken at monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and

MW-23B. Groundwater samples were analyzed for total Target Analyte List (TAL) metals and dissolved TAL metals via U.S. Environmental Protection Agency (EPA) Method 6010. A field duplicate sample was taken at MW-13B.

Surface water and sediment samples were taken at locations SW/SD-05, SW/SD-06, SW/SD-07, SW/SD-08, SW/SD-09, SW/SD-10, and SW/SD-11 in the northern part of Willetts Creek corridor (**Figure 3**) to determine the extent of cadmium and chromium along the creek corridor. Surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010 as well as hardness via EPA Method 2340B. Sediment samples were analyzed for total cadmium and chromium via EPA Method 6010. Duplicate samples were taken at SD-11 and SW-06. Results of the sampling were submitted to NYSDEC as part of the January 2023 Groundwater, Surface Water, and Sediment Sample Data Summary (EA 2023b) and are summarized in Section 3.

2.1.3 Creek Corridor Inspection

The Willetts Creek corridor was inspected on 18 January 2023. Findings and observations of the inspection are provided in **Appendix B**. Overall, the creek appears to be in good health. Growth of aquatic and semi-aquatic vegetation in the wetland behind Captree Plaza and along the creek corridor was difficult to identify due to the inspection occurring outside of the growing season. There were some signs of minor erosion and no signs of inadequate coverage except in areas that are mowed or slightly eroded.

2.1.4 OU1 Site Cover Inspection

The former asphalt cap at OU1 was found to be removed during the January 2023 inspection. In October 2022, personnel from Island Associates installed a temporary geomembrane to minimize erosion and infiltration at OU1.

2.1.5 OU5 Visual Inspection

Inspection of OU5 was not completed at the time of the January 2023 site visit as visual inspection at OU5 is completed only after major storm events as defined in the SMP.

2.1.6 March 2023 Synoptic Gauging Oversight

On 27 March 2023, EA oversaw personnel from Impact Environmental Consulting, Inc. (Impact Environmental) gauge the site monitoring well network. It was noted that MW-3 had experienced damage in which the aboveground portion of polyvinyl chloride (PVC) had been destroyed. A new combination lock was installed on MW-17. The remaining site monitoring wells were overall in good condition with concrete pads intact, well casings remained protective, and j-plugs secured to prevent infiltration of rain or standing water. Gauging data from March 2023 are included in **Table 2**.

2.1.7 March 2023 Groundwater, Surface Water, and Sediment Sampling Oversight

On 27-28 March 2023, EA oversaw personnel from Impact Environmental perform groundwater, surface water, and sediment sampling on-site (**Figure 3**). Field forms associated with the sampling can be found in **Appendix A**.

Groundwater samples were taken at monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and MW-23B. Groundwater samples were analyzed for total TAL metals and dissolved TAL metals via EPA Method 6010. Due to the damaged PVC associated with MW-3, it was decided to purge five well volumes of water before sampling, as no blockage was found during gauging. A field duplicate sample was taken at MW-13A.

Co-located surface water and sediment samples were taken at locations SW/SD-01, SW/SD-02, SW/SD-03, SW/SD-04, SW/SD-05, SW/SD-06, and SW/SD-07 in the northern part of Willetts Creek corridor (**Figure 3**) to determine the extent of cadmium and chromium along the creek corridor. Surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010 as well as hardness via EPA Method 2340B. Sediment samples were analyzed for total cadmium and chromium via EPA Method 6010. Field duplicate samples were taken at SW/SD-3. Results of the sampling event were submitted to NYSDEC via Impact Environmental in the March 2023 Monitoring Letter Report (Impact Environmental 2023) and are summarized in Section 3.

2.2 QUARTER TWO

2.2.1 May Inspection/Oversight

On 4 May 2023, EA personnel completed a site visit that included a brief site inspection as well as third party oversight of Impact Environmental. There was no note of any new damages or obstructions during the inspection. Oversight consisted of digging in OU1 done by Impact Environmental. The objective of the digging event was to determine the depth of in-situ stabilization technology in the development area. The edge of the geomembrane installed in October 2022 was encountered in the series of test pits; the test pits were backfilled and the temporary soil cover was restored by the end of the day.

2.2.2 June 2023 Synoptic Gauging

A synoptic gauging event was completed on 26 June 2023, consisting of monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and MW-23B. Site monitoring wells were overall in good condition with concrete pads intact, well casings remained protective, and j-plugs secured to prevent infiltration of rain or standing water. Gauging data are shown in **Table 2** and a gauging form is included in **Appendix A** for reference.

2.2.3 June 2023 Groundwater, Surface Water, and Sediment Sampling

On 26-27 June 2023, EA performed groundwater, surface water, and sediment sampling on-site (**Figure 3**). Field forms associated with the sampling can be found in **Appendix A**.

Groundwater samples were taken at monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, MW-23B. Groundwater samples were analyzed for total TAL metals and dissolved TAL metals via EPA Method 6010. Per NYSDEC and New York State Department of Health (NYSDOH) recommendation, four groundwater monitoring wells (MW-9, MW-13A, MW-17, and MW-18) were sampled and analyzed for per- and polyfluoroalkyl substances (PFAS) via EPA Method 1633. A field duplicate for metals was taken at MW-13A. A field duplicate sample for PFAS was taken at MW-17.

Surface water and sediment samples were collected at SW/SD-01, SD-08, SD-09 in the Northern part of Willetts Creek corridor (**Figure 3**) to determine the extent of cadmium and chromium along the creek corridor. Surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010 as well as hardness via EPA Method 2340B. Sediment samples were analyzed for total cadmium and chromium via EPA Method 6010. Field duplicate samples were taken at SD-9. Results from the June 2023 sampling were submitted to NYSDEC in the June 2023 Groundwater Surface Water, and Sediment Sample Data Summary (EA 2023c) and are summarized in Section 3.

2.2.4 June 2023 Fish Sampling

Between 26-28 June 2023, EA conducted a fish sampling event in accordance with the SMP and the Fish Sampling Work Plan (EA 2023d) to determine if changes to the human health fish advisory for Lake Capri are warranted and to ensure the remedy for the Site is protective of fish and wildlife resources. The advisory modifications are based on the concentrations of cadmium and chlordane in the fish. NYSDOH and NYSDEC Department of Fish and Wildlife requested additional fish tissue be collected for analysis of PFAS compounds. Fish tissue (predator and prey) was collected from three areas: Lake Capri near the mouth of Willetts Creek (FSA-1), in the area in the southern part of the lake (FSA-2), and a section of Willetts Creek upstream of Lake Capri (FSA-3) (**Figure 4**). Target species for the fish sampling included Largemouth Bass, Golden Shiners, Common Carp, and American Eel. Golden Shiners and Common Carp were not encountered or caught during the fish sampling efforts. A summary of fish samples collected as well as a summary of fish aging are included in **Appendix A**.

Full body fish samples were delivered to the NYSDEC Hale Creek Biological Field Station on 29 June 2023. These samples were processed by the staff at the Hale Creek location and prepped for analysis of metals, chlordane, lipids, and PFAS. Fish tissue to be analyzed for PFAS was to be shipped to the SGS AXYS Analytical Services Ltd. location in British Columbia, Canada. However, these tissue samples did not successfully cross the border and were held in U.S. Customs for several days. Once the tissue samples were recovered, they were deemed a loss and not analyzed. Upon review of remaining tissue aliquots at Hale Creek, it was determined that sufficient volume remained for analysis of chlordane in all samples and PFAS in a subset of samples. Tissue

samples for chlordane analysis and seven tissue samples for PFAS analysis were sent as homogenates to the SGS Wilmington Laboratory on dry ice in December 2023. These samples were extracted at the Wilmington laboratory. Analytical data for fish tissue for metals and PFAS were submitted by the laboratories directly to NYSDEC and NYSDOH; chlordane results are forthcoming. The fish sampling results will be provided in a separate memorandum once all of the results are received.

2.2.5 June 2023 Wetland Mitigation

On 27 and 28 June 2023, EA subcontracted GEI Consultants to perform invasive species management along the Willetts Creek corridor in accordance with the Invasive Species Management Plan (EA 2022b). To address common reed (*Phragmites australis*), the monotypic stands were spot treated through chemical control.

2.3 QUARTER THREE

There were no field events during Quarter 3 of 2023.

2.4 QUARTER FOUR

2.4.1 October 2023 Wetland Mitigation

Wetland mitigation monitoring is required to be conducted to meet the conditions of the authorization received from U.S. Army Corps of Engineers to perform the remediation under Nationwide Permit No. 38 (NAN-2018-01009-EME). Wetland vegetation monitoring at the Site was performed by an EA Wetland Scientist on 2 October 2023, shortly after the growing season (May through September), in order to document vegetation conditions. The Site was surveyed from the downstream most extent of the project site at Lake Capri and continued upstream to the start of the remediation area on the north end of the Site near Captree Plaza. When invasive species were observed, field personnel delineated the extent of the species coverage. The wetland monitoring is further documented in the 2023 Annual Wetland Monitoring Report (EA 2023e).

On 3 and 9 October 2023, EA subcontracted GEI Consultants to perform invasive species management along the Willetts Creek corridor in accordance with the Invasive Species Management Plan (EA 2022b). To address common reed (*Phragmites australis*), the monotypic stands were spot treated through chemical control. GEI also performed seeding of any bare areas along the stream bank and the emerging wetland with an approved riparian buffer seed mix.

2.4.2 November 2023 Synoptic Gauging/Well Inspection

A synoptic gauging event was completed on 13 November 2023, consisting of monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, MW-23B. Gauging data is shown in **Table 2** and a gauging form is included in **Appendix A** for reference. Groundwater potentiometric surface contours for both shallow and deep monitoring wells are shown on **Figures 5 and 6**, respectively.

2.4.3 November 2023 Groundwater, Surface Water, and Sediment Sampling

On 13-14 November 2023, EA performed groundwater, surface water, and sediment sampling on-site (**Figure 3**). Field forms associated with the sampling can be found in **Appendix A**.

Groundwater samples were taken at monitoring wells MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and MW-23B. Groundwater samples were analyzed for total TAL metals and dissolved TAL metals via EPA Method 6010. A field duplicate sample was collected at MW-13A.

Surface water and sediment samples were collected at SW/SD-01 and SW/SD-12 in the northern part of Willetts Creek corridor (**Figure 3**) to determine the extent of cadmium and chromium along the creek corridor. Surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010 as well as hardness via EPA Method 2340B. Sediment samples were analyzed for total cadmium and chromium via EPA Method 6010. Field duplicate samples were collected at SW/SD-01. Results from the November 2023 sampling are summarized in Section 3.

3. SAMPLING RESULTS

3.1 GROUNDWATER SAMPLE RESULTS

Laboratory Reports for each sampling event can be found in **Appendix C**.

3.1.1 January 2023

Total cadmium concentrations exceeded the New York State (NYS) Class GA groundwater standard of 5 micrograms per liter (µg/L) in 5 monitoring wells (MW-9, MW-9B, MW-13A, MW-15A, and MW-23A) where concentrations ranged from 5.1 µg/L (MW-23A) to 430 µg/L (MW-13A). Dissolved cadmium concentrations exceeded NYS Class GA groundwater standards in groundwater samples collected from MW-9 (13 µg/L) and MW-13A (420 µg/L). Chromium (total and dissolved) was detected in 4 of 15 monitoring wells but did not exceed the NYS Class GA groundwater standard of 50 µg/L. Detected total chromium concentrations ranged from 2.9 µg/L (MW-9) to 22 µg/L (MW-13B) while detected dissolved chromium concentrations ranged from 2.9 µg/L (MW-23B) to 20 µg/L (MW-13B). January 2023 groundwater analytical results for metals and NYS Class GA groundwater standards are summarized in **Table 3** and on **Figure 7.**

3.1.2 March 2023

Total cadmium concentrations exceeded the NYS Class GA groundwater standard in 4 monitoring wells (MW-3, MW-9, MW-13A, and MW-23A) where concentrations ranged from 6.0 µg/L (MW-23A) to 798 µg/L (MW-13A). Dissolved cadmium concentrations exceeded the NYS Class GA groundwater standard in groundwater samples collected from MW-3 (10 µg/L), MW-9 (33 µg/L), and MW-13A (742 µg/L). Chromium (total and dissolved) was detected in 8 of 15 monitoring wells but did not exceed the NYS Class GA groundwater standard. Detected total chromium concentrations ranged from 1.0 µg/L (MW-3 and MW-17) to 22 µg/L (MW-13B) while detected dissolved chromium concentrations ranged from 2.0 µg/L (MW-22A) to 21 µg/L (MW-13B). March 2023 groundwater analytical results for metals and NYS Class GA groundwater standards are summarized in **Table 3** and on **Figure 7**.

3.1.3 June 2023

Total cadmium concentrations exceeded the NYS Class GA groundwater standard in 4 monitoring wells (MW-2, MW-9, MW-13A, and MW-15A) where concentrations ranged from 6.8 µg/L (MW-2) to 530 µg/L (MW-13A). Dissolved cadmium concentrations exceeded the NYS Class GA groundwater standard in groundwater samples collected from MW-2 (6.7 µg/L), MW-3 (16 µg/L), MW-9 (5.3 µg/L), and MW-13A (510 µg/L). Chromium (total and dissolved) was detected in 2 of 15 monitoring wells but did not exceed the NYS Class GA groundwater standard. Detected total chromium concentrations from MW-15A and MW-13B were each 22 µg/L while dissolved chromium concentrations from MW-15A and MW-13B were each 21 µg/L. June 2023 groundwater analytical results for metals and NYS Class GA groundwater standards are summarized in **Table 3** and on **Figure 7**.

PFAS compounds perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were detected above the NYSDEC guidance values of 6.7 nanograms per liter (ng/L) (PFOA) and 2.7 ng/L (PFOS) in groundwater samples from monitoring wells MW-9, MW-13A, MW-17, and MW-18. Detected concentrations of PFOA ranged from 0.91 ng/L (MW-18) to 19 ng/L (MW-13A). Detected concentrations of PFOS ranged from 2.8 ng/L (MW-18) to 23 ng/L (MW-13A). June 2023 groundwater analytical results for PFAS and NYS guidance values are summarized in **Table 4** and **Figure 8**.

3.1.4 November 2023

Total cadmium concentrations exceeded the NYS Class GA groundwater standard in 4 monitoring wells (MW-3, MW-9, MW-13A, and MW-23A) where concentrations ranged from 5.6 µg/L (MW-23A) to 540 µg/L (MW-13A). Dissolved cadmium concentrations exceeded the NYS Class GA groundwater standard in groundwater samples collected from MW-9 (8.1 µg/L) and MW-13A (550 µg/L). Chromium (dissolved) was detected in 1 of 15 monitoring wells but did not exceed the NYS Class GA groundwater standard. Detected dissolved chromium concentrations at MW-22A were 16 µg/L. November 2023 groundwater analytical results for metals and NYS Class GA groundwater standards are summarized in **Table 3** and on **Figure 7**.

3.2 SURFACE WATER RESULTS

Laboratory Reports for each sampling event can be found in **Appendix C**. Hardness in surface water was used in accordance with NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (NYSDEC 1998) to calculate site-specific hardness-corrected surface water standards for dissolved forms of cadmium and chromium. The site-specific hardness-corrected surface water standards were computed with an average hardness of 62.4 mg/L, the mean of all surface water hardness results from January, March, June, and November 2023 sampling efforts. The site-specific standard for cadmium was computed to be 1.45 µg/L and for chromium was computed to be 50.4 µg/L.

3.2.1 January 2023

Total hardness of surface water samples ranged from 58 milligrams per liter (mg/L) to 73 mg/L across samples from locations SW-05, SW-06, SW-07, and SW-08. Cadmium was detected in surface water samples SW-05, SW-06, SW-07, and SW-08 with a concentration range of < 0.80 µg/L (SW-05) to 21 µg/L (SW-06). Samples from locations SW-06, SW-07 and SW-08 exceeded site-specific hardness-corrected surface water guidance values for dissolved cadmium with concentrations of 21 µg/L, 10 µg/L, and 7.4 µg/L, respectively. Chromium was not detected in any surface water samples. Surface water analytical results and site-specific hardness-corrected surface water guidance values are summarized in **Table 5** and on **Figure 9**.

3.2.2 March 2023

Total hardness of surface water samples ranged from 57.9 mg/L to 70.7 mg/L across samples from locations SW-01, SW-02, SW-03, SW-04, SW-05, SW-06, and SW-07. Cadmium was detected in all 7 surface water samples with a concentration range of 1 µg/L (SW-05) to 35.3 µg/L (SW-03).

Samples from locations SW-01, SW-03, SW-04, SW-06, and SW-07 exceeded site-specific hardness-corrected surface water guidance values for dissolved cadmium with concentrations of 3 µg/L, 35.3 µg/L, 13.2 µg/L, 33.4 µg/L, and 15 µg/L, respectively. Chromium concentrations were not detected above the site-specific hardness-corrected surface water guidance values in any surface water samples. Surface water analytical results and site-specific hardness-corrected surface water guidance values are summarized in **Table 5** and on **Figure 9**.

3.2.3 June 2023

Total hardness of surface water sample SW-01 was 60 mg/L. Cadmium and chromium were not detected in the surface water sample. Surface water analytical results and site-specific hardness-corrected surface water guidance values are summarized in **Table 5** and on **Figure 9**.

3.2.4 November 2023

Total hardness of surface water samples ranged from 56 mg/L to 61 mg/L across samples from locations SW-01 and SW-12. Samples from locations SW-01 and SW-12 exceeded site-specific hardness-corrected surface water guidance values for dissolved cadmium with concentrations of 5.2 µg/L and 5.9 µg/L, respectively. Chromium was not detected in any surface water samples. Surface water analytical results and site-specific hardness-corrected surface water guidance values are summarized in **Table 5** and on **Figure 9**.

3.3 SEDIMENT RESULTS

Laboratory Reports for each sampling event can be found in **Appendix C**.

3.3.1 January 2023

Cadmium concentrations in sediment samples ranged from non-detect to 35 milligrams per kilogram (mg/kg). Sediment samples from SD-05, SD-06, SD-07, SD-08, and SD-10 exceeded the NYSDEC SGV of 1 mg/kg for cadmium. Chromium was detected in all 4 sediment samples with a concentration range of 1.9 mg/kg (SD-11) to 20 mg/kg (SD-06). No sediment samples exceeded the NYSDEC SGV of 43 mg/kg for chromium. Sediment analytical results and NYSDEC SGVs are summarized in **Table 6** and on **Figure 9**.

3.3.2 March 2023

Cadmium concentrations in sediment samples ranged from 0.5 mg/kg to 9.82 mg/kg. Sediment samples from SD-01, SD-02, SD-03, SD-04, SD-05, and SD-06 exceeded the NYSDEC SGV for cadmium. Chromium was detected in all 7 sediment samples with a concentration range of 2.22 mg/kg (SD-07) to 18.9 mg/kg (SD-01). No sediment samples exceeded the NYSDEC SGV for chromium. Sediment analytical results and NYSDEC SGVs are summarized in **Table 6** and **Figure 9**.

3.3.3 June 2023

Cadmium concentrations in sediment samples ranged from 6.6 mg/kg to 11 mg/kg. Sediment samples from SW-01, SW-08, and SW-09 exceeded the NYSDEC SGV for cadmium with concentrations of 6.6 mg/kg, 11 mg/kg, and 8.6 mg/kg, respectively. Chromium was detected in all three sediment samples with concentrations ranging from 5.9 mg/kg (SD-01) to 12 mg/kg (SD-08). No sediment samples exceeded the NYSDEC SGV for chromium. Sediment analytical results and NYSDEC SGVs are summarized in **Table 6** and on **Figure 9**.

3.3.4 November 2023

Cadmium concentrations in sediment samples ranged from 0.45 mg/kg (SD-01) to 4.1 mg/kg (SD-12). Only the sample from SD-12 exceeded the NYSDEC SGV for cadmium. However, the field duplicate sample collected from the same location as SD-01 yielded a result of 19 mg/kg, which exceeds the NYSDEC SGV for cadmium. The difference between parent sample and field duplicate sample concentrations is likely attributed to less-than ideal homogenization of the sample aliquot. Chromium was detected in both sediment samples with a concentration range of 3.5 mg/kg (SD-12) to 14 mg/kg (SD-01). No sediment samples exceeded the NYSDEC SGV for chromium. Sediment analytical results and NYSDEC SGVs are summarized in **Table 6** and on **Figure 9**.

4. CONCLUSIONS/RECOMMENDATIONS

The next full site management sampling and inspection event is set to occur in the first quarter of 2024. The frequency for site management sampling has been changed to a quarterly schedule. Results from the quarterly site management sampling events will be reported in individual letter memoranda in addition to the annual report. Proposed sampling locations for the 2024 sampling efforts are shown on **Figure 10**. A Periodic Review Report for the Site is scheduled for 2025.

4.1 CONCLUSIONS

The creek corridor inspection in October 2023 documented that vegetation in the creek corridor has no signs of stress and the corridor is still heavily vegetated with the creek bank stabilized through the plantings and seeding that was completed during restoration. Invasive species management of common reed (*Phragmites australis*) in 2022 and 2023 has proven to be effective, as the current total land cover (2.5 percent) of invasive species now below the 5 percent standard required by the Nationwide 38 permit conditions. Overall, the ecological integrity of the creek appears to be high demonstrating the success of the restoration (EA 2023e).

Concentrations at the Site have remained elevated in the MW-13A cluster. A dissolved phase cadmium plume remains at the Site. Groundwater at the Site is not a source of potable water and is not being used for irrigation purposes. Risk of exposure to groundwater contamination is limited; however, action may be warranted in order to protect Willetts Creek. Cadmium sediment concentrations have increased in the wetland behind Captree Plaza since the area was dredged in 2019. The cause of this increase is likely attributable to sorption and binding of cadmium to creek sediments as contaminated groundwater discharges to the creek.

4.2 RECOMMENDATIONS

During a site visit on 22 April 2021, EA personnel observed that the asphalt cap at OU1 had been removed by the site developer (EA 2023c). The cap was integral engineering control included as an essential component of the remedy for the Site. Therefore, a temporary polypropylene geomembrane was installed at the OU1 area on 19 October 2022. An additional 12 inches of clean backfill was placed atop the geomembrane to reduce drainage velocity and stabilize the polypropylene sheeting. Concentrations of cadmium at MW-13A continue to fluctuate around two orders of magnitude above the NYS Class GA groundwater standard of 5 µg/L. A trend figure (**Figure 11**) of cadmium and chromium concentrations as well as groundwater elevations at MW-13A is included for reference.

Continued groundwater sampling is recommended to monitor the migration and possible attenuation of the cadmium plume. The incorporation of new wells (MW-1, MW-2, MW-3, MW-9, and MW-9B) in the OU1 and OU6 areas has afforded a more robust dataset for plume evaluation in the vicinity of the source area. Consistent evidence of cadmium contamination in groundwater at the Site led to a recommendation by the NYSDEC that EA prepare a technology evaluation memorandum for groundwater and sediment treatment options at the Site. This letter memorandum outlined potential methods for remediating the dissolved phase cadmium plume in groundwater as well as the cadmium contamination in Willetts Creek sediments (EA 2023f). Per NYSDEC

request, EA drafted a letter memorandum summarizing updated mass flux and groundwater discharge calculations that was submitted in November 2023. The conclusion of this letter memorandum was that more information regarding analytical and hydrogeological data was needed to refine the calculations and better develop the site conceptual model (EA 2023g).

Sediment analytical results at SD-12 indicate that the cadmium is continuing to mobilize downstream from the historical hotspot point where groundwater discharges into Willetts Creek. Given the detection of cadmium at SD-12, sampling further downstream from SD-12 is recommended to better understand the extent of cadmium mobilization in Willetts Creek. EA recommends adding two additional surface water/sediment sample locations downstream of SW/SD-12, one (SW/SD-13) at the Edmore Lane footbridge adjacent to the West Islip High School and another downstream (SW/SD-14) adjacent to Ivy Court. Proposed sediment and surface water sampling locations for the January 2024 semi-annual monitoring event are presented on **Figure 10**.

NYSDEC has also requested that EA draft a letter workplan for further groundwater investigation to assist with development of a higher resolution conceptual site model. The details of this groundwater investigation and related data collection will be outlined in the forthcoming letter work plan.

Action items related to the rebound of cadmium in groundwater and sediment will be determined following further coordination with the NYSDEC and the OU1/OU6 site property owner.

5. REFERENCES

AECOM. 2019. *Groundwater Sampling Report (November 2018 Sampling Event) Dzus Fasteners Site, Site #1-52-033. Final*. May.

EA Engineering, P.C. and its affiliate EA Science and Technology (EA). 2022a. *Record of Decision, Operable Unit (OU) 05: Willetts Creek Tidal State Superfund Project. , Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. March.

———. 2022b. *Invasive Species Management Plan Technical Memorandum, Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. August.

———. 2023a. *Site Management Plan, Revision 2, Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. September.

———. 2023b. *Groundwater, Surface Water, and Sediment Sample Data Summary Technical Memorandum*. June.

———. 2023c. *June 2023 Groundwater, Surface Water, and Sediment Sample Data Summary Technical Memorandum*. September.

———. 2023d. *Fish Sampling Work Plan*. May.

———. 2023e. *2023 Draft Annual Wetland Monitoring Report, Dzus Fastener Company, Inc. Site (152033), OU 3&4, West Islip, New York*. December.

———. 2023f. *Technology Evaluation for Sediment and Groundwater Remediation Technical Memorandum*. September.

———. 2023g. *Groundwater Flux/Discharge Analysis – 2023 Update Technical Memorandum, Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. September.

Impact Environmental Consulting, Inc. 2023. *March 2023 Monitoring Letter Report. Impact Environmental Consulting, Inc. (Impact Environmental).* March.

New York State Department of Environmental Conservation (NYSDEC). 1995. *Record of Decision, Dzus Fastener Company, Operable Unit 01, Inactive hazardous Waste Site, Site Number 152033.* March.

———.1998. New York State Department of Environmental Conservation (NYSDEC) *Division of Water Technical and Operations Guidance Series 1.1.1 , Ambient Water Quality standards, Guidance Values and Groundwater Effluent Limitations.* June.

———. 2017. *Record of Decision, Operable Unit (OU) 03: Willetts Creek Wetland Areas. Dzus Fastener Co., Inc. Site No. 152033. West Islip, Suffolk County, New York*. October.

———. 2018. *Record of Decision, Operable Unit (OU) 04: Lower End of Willetts Creek and Lake Capri. Dzus Fastener Co., Inc. Site No. 152033. West Islip, Suffolk County, New York.* November 2018.

———. 1997. *Record of Decision, Operable Unit (OU) 02: Groundwater, Surface Water and Sediment in Willetts Creek and Lake Capri, Dzus Fastener Co., Inc. Site No. 152033. West Islip, Suffolk County, New York.* October 1997

Figures

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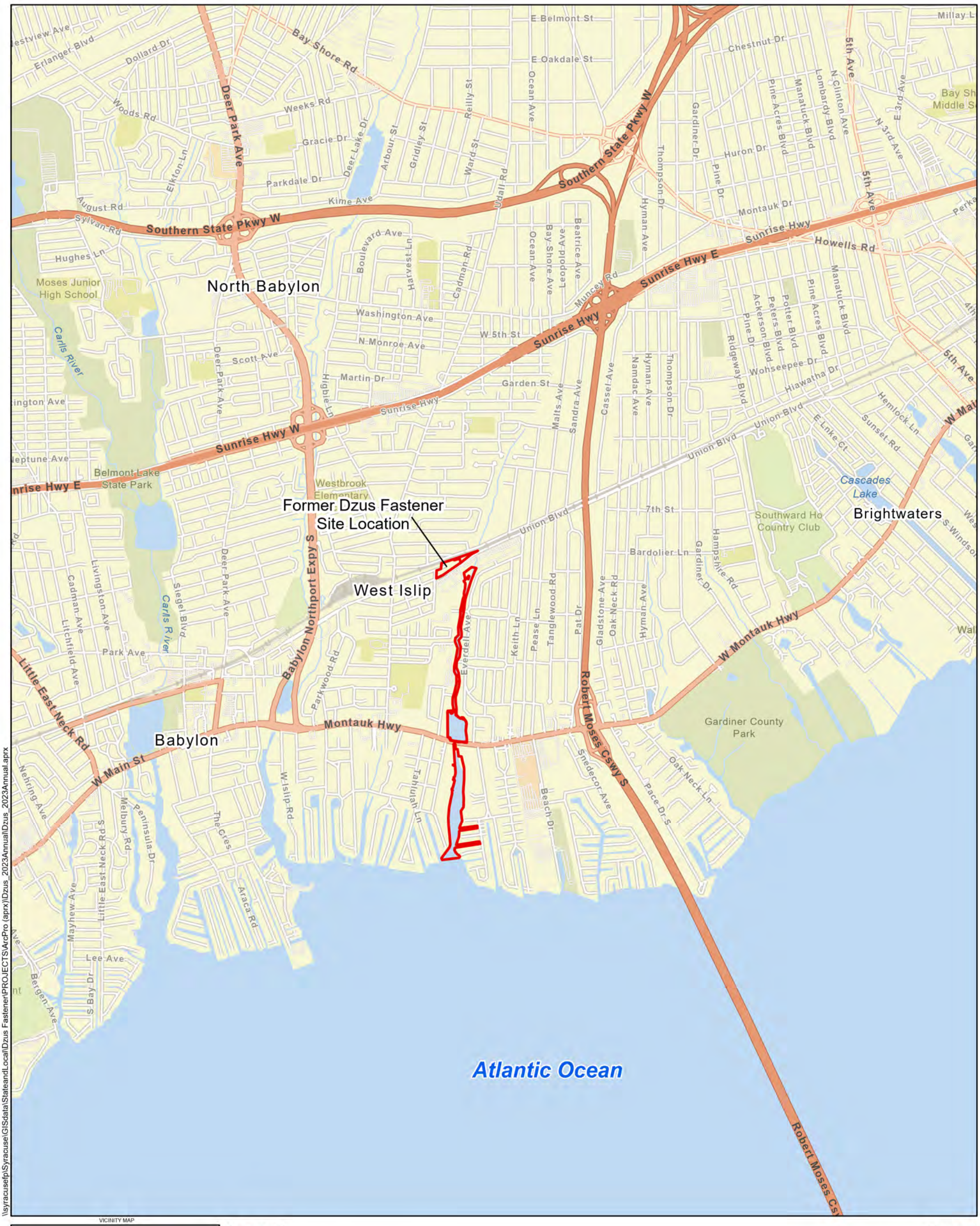

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VICINITY MAP

Legend

Site Boundary

0 1,500 3,000

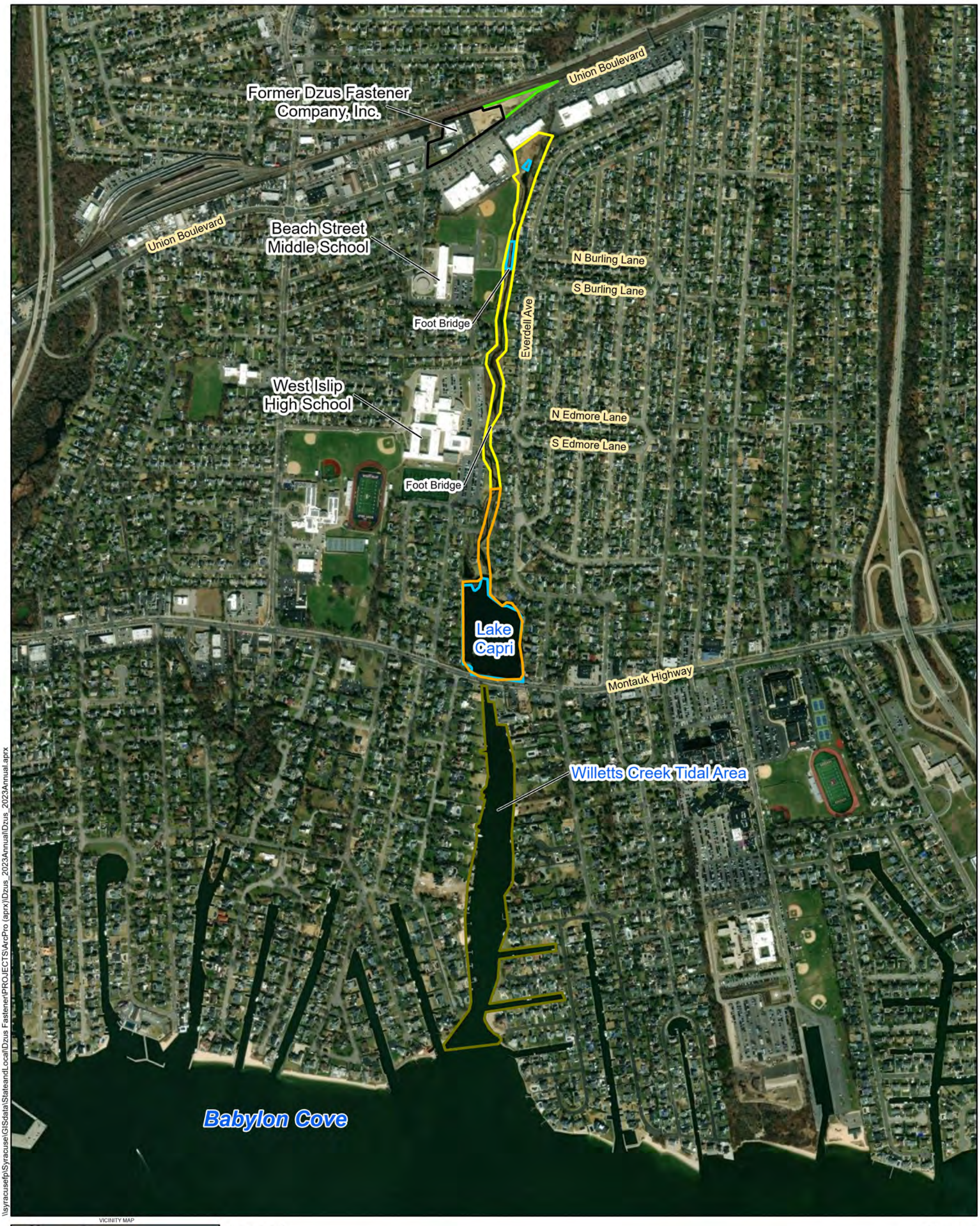
Feet

N

Figure 1
General Site Location
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 1/16/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation



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Approximate Operable Unit Boundary

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

0 500 1,000
Feet
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Figure 2
Operable Units
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 1/16/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

MW-17
MW-3
MW-9B
MW-9
MW-1
MW-22B
MW-15B
MW-22A
MW-15A
MW-2
MW-13B
MW-13A
SD-11
SD-10
SW/SD-05
SW/SD-02
MW-23A
SW/SD-01
MW-23B
SW/SD-06
SW/SD-03
Historical Hot Spot
SW/SD-04
SW/SD-07
SD-08
SD-09
Union Boulevard
SD-12
Willetts Creek
MW-18

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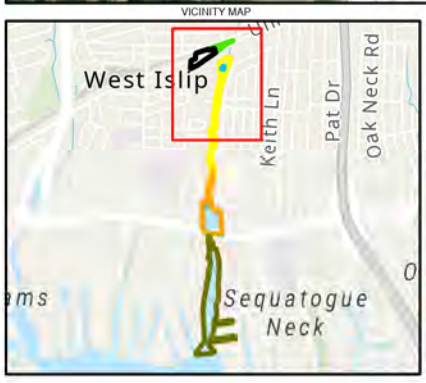

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Feet
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Legend

Operable Units
- OU1
- OU3
- OU6
- Monitoring Well

Willetts Creek Surface Water/Sediment Samples
- SD Sample (January 2023)
- SD Sample (January & June 2023)
- SW/SD Sample (January & March 2023)
- SW/SD Sample (January, March, June, & November 2023)
- SW/SD Sample (January & June 2023)
- SW/SD Sample (March 2023)
- SW/SD Sample (November 2023)

Figure 3
Monitoring Locations
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE | Department of Environmental Conservation

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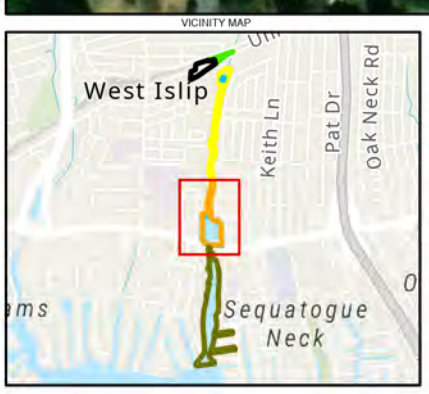

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- Fish Sampling Area
- Lake Capri

0 100 200
Feet

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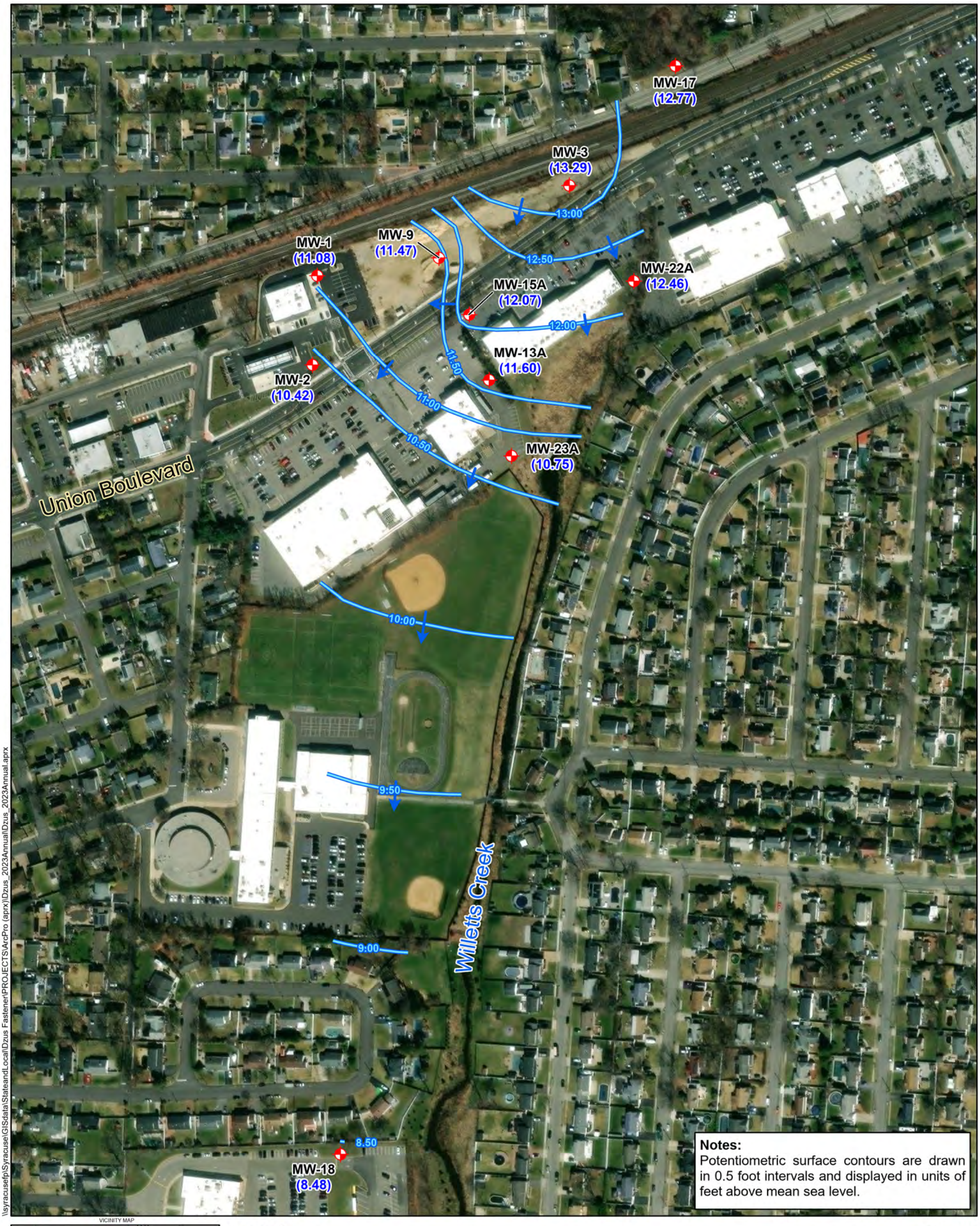
Figure 4
Fish Sampling Areas
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation



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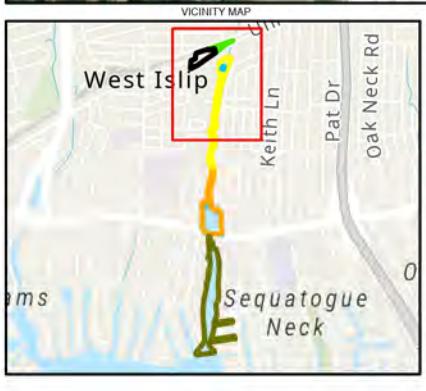

Legend

- Groundwater Potentiometric Contour
- Groundwater Flow Direction
- Monitoring Well

0 150 300
Feet
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Figure 5
Shallow Potentiometric Surface Contours
November 2023
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE | Department of Environmental Conservation

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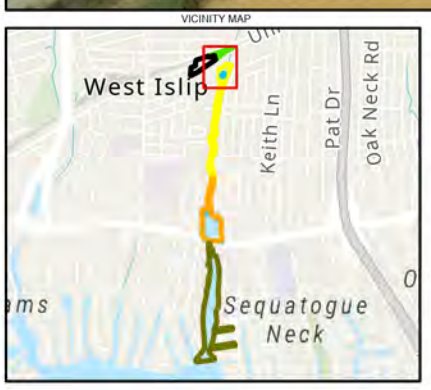

Legend

- Deep Potentiometric Surface Contour
- Groundwater Flow Direction
- Monitoring Well

0 50 100
Feet

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Figure 6
Deep Potentiometric Surface Contours
November 2023
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

MW-9	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	**7.4**	**33**	**7.0**	**8.5**
Dissolved Cd	**13**	**34**	**5.3**	**8.1**
Total Cr	2.9 J	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-9B	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	**13**	ND	ND	ND
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-17	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	ND	ND	ND
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	1.0	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-1	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	2.0 J	ND	ND
Dissolved Cd	0.95 J	2.0 J	ND	ND
Total Cr	ND	7.0	ND	ND
Dissolved Cr	ND	5.0	ND	ND

MW-3	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	4.2	**11**	ND	**18**
Dissolved Cd	4.1	**10**	**16**	ND
Total Cr	ND	1	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-15B	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	ND	ND	ND
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-22B	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	ND	ND	ND
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-15A	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	**18**	4.0	**10**	16
Dissolved Cd	1.7 J	1.0 J	ND	ND
Total Cr	4.1 J	4.0	22	ND
Dissolved Cr	20	20	21	ND

MW-22A	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	1.0 J	ND	1.6 J
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	3.0 J	ND	ND
Dissolved Cr	ND	2.0	ND	16

MW-23A	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	**5.1**	**6**	ND	**5.6**
Dissolved Cd	ND	3.0 J	ND	ND
Total Cr	ND	1.0	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-23B	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	1.9 J	1.0 J	ND	ND
Dissolved Cd	ND	1.0 J	ND	ND
Total Cr	4.6 J	3.0	ND	ND
Dissolved Cr	2.9 J	2.0	ND	ND

MW-2	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	1.6 J	4 J	**6.8**	3.8 J
Dissolved Cd	3.8 J	4.0	**6.7**	3.5 J
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-13B	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	0.99 J	1.0 J	ND	ND
Dissolved Cd	ND	ND	1.0 J	ND
Total Cr	22	21	22	ND
Dissolved Cr	20	20	21	ND

MW-13A	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	**430**	**798**	**530**	**540**
Dissolved Cd	**420**	**742**	**510**	**550**
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

MW-18	Jan-23	Mar-23	Jun-23	Nov-23
Total Cd	ND	ND	ND	ND
Dissolved Cd	ND	ND	ND	ND
Total Cr	ND	ND	ND	ND
Dissolved Cr	ND	ND	ND	ND

Union Boulevard

Willetts Creek

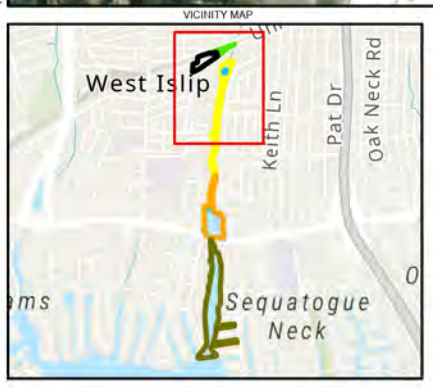
NYSDEC Class GA AWQS	
Cadmium	5 µg/L
Chromium	50 µg/L

Notes:
Analytical results for cadmium and chromium are shown in units of micrograms per liter (µg/L).

Bold and highlighted values indicate concentrations greater than the NYSDEC Class GA AWQS (metals) or guidance values (PFAS).

AWQS = Ambient Water Quality Standards
Cd = Cadmium
Cr = Chromium
J = Estimated value
ND = Non-detect
NYSDEC = New York State Department of Environmental Conservation

VICINITY MAP



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Monitoring Well

0 150 300
Feet
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Figure 7
2023 Groundwater Analytical Results
Cadmium and Chromium
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

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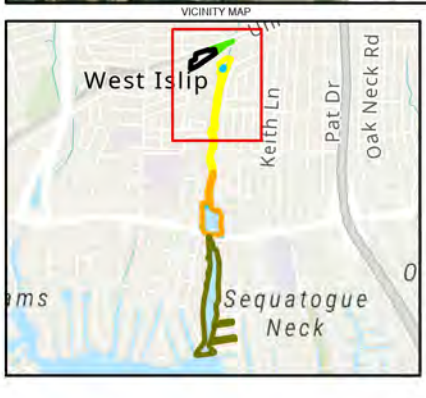

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Monitoring Well

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Feet
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Figure 8
2023 Groundwater Analytical Results
PFAS
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

SW-05	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	ND	1.0	NS	NS
Chromium	NS	NS	ND	ND	NS	NS
SD-05	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	NS	**4.5**	**2.46**	NS	NS
Chromium	NS	NS	3.1	2.88	NS	NS

SW-01	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	**13.2**	**56**	NS	**3.0**	ND	**5.9**
Chromium	ND	ND	NS	ND	ND	ND
SD-01	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	**46.9**	**22**	NS	**5.0**	**6.6**	0.45 J
Chromium	18.4	13	NS	18.9	5.9	14

SW-03	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	**44**	NS	**35.2**	NS	NS
Chromium	NS	ND	NS	2.0	NS	NS
SD-03	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	**280**	NS	**9.8**	NS	NS
Chromium	NS	**55**	NS	3.01	NS	NS

SW-04	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	**16**	NS	**13.2**	NS	NS
Chromium	NS	ND	NS	ND	NS	NS
SD-04	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	**7.1**	NS	**2.89**	NS	NS
Chromium	NS	5.9	NS	7.89	NS	NS

SW-08	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	**7.4**	NS	NS	NS
Chromium	NS	NS	ND	NS	NS	NS
SD-08	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	NS	**6.3**	NS	**11**	NS
Chromium	NS	NS	5.0	NS	12	NS

SW-12	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	NS	NS	NS	**5.2**
Chromium	NS	NS	NS	NS	NS	NS
SD-12	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	NS	NS	NS	NS	**4.1**
Chromium	NS	NS	NS	NS	NS	3.5

SD-11	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	ND	NS	NS	NS
Chromium	NS	NS	1.9	NS	NS	NS

SD-10	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	1.2	NS	NS	NS
Chromium	NS	NS	4.0	NS	NS	NS

SW-02	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	**9.0**	NS	1.3	NS	NS
Chromium	NS	ND	NS	ND	NS	NS
SD-02	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	**45**	NS	**2.3**	NS	NS
Chromium	NS	28	NS	7.03	NS	NS

SW-06	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	**19**	**33.4**	NS	NS
Chromium	NS	NS	ND	2.0	NS	NS
SD-06	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	NS	**35**	**8.09**	NS	NS
Chromium	NS	NS	20	6.18	NS	NS

SW-07	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	**10**	**15**	NS	NS
Chromium	NS	NS	ND	ND	NS	NS
SD-07	**Oct-21**	**Jul-22**	**Jan-23**	**Mar-23**	**Jun-23**	**Nov-23**
Cadmium	NS	NS	**2.6**	0.50	NS	NS
Chromium	NS	NS	4.6	2.22	NS	NS

SD-09	Oct-21	Jul-22	Jan-23	Mar-23	Jun-23	Nov-23
Cadmium	NS	NS	0.76	NS	**8.6**	NS
Chromium	NS	NS	4.0	NS	11	NS

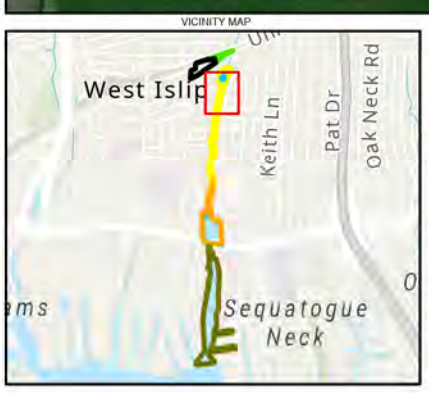
NYSDEC Sediment Guidance Values	
Cadmium	1 mg/kg
Chromium	43 mg/kg

NYSDEC Site-Specific Hardness-Corrected Surface Water Standards	
Cadmium	1.45 µg/L
Chromium	50.4 µg/L

Notes:
Surface water analytical results for cadmium and chromium are shown in units of micrograms per liter(µg/L). Sediment analytical results for cadmium and chromium are shown in units of milligrams per kilogram (mg/kg).

Bold and highlighted values indicate concentrations greater than the site-specific hardness-corrected NYSDEC Class C AWQS or NYSDEC SGV, where applicable.

AWQS = Ambient Water Quality Standards
ND = Non-detect
NYSDEC = New York State Department of Environmental Conservation
SGV = Sediment Guidance Value



Legend

Operable Units

OU3

Willetts Creek Surface Water/Sediment Samples

- SD Sample (January 2023)
- SD Sample (January & June 2023)
- SW/SD Sample (January & March 2023)
- SW/SD Sample (January, March, June, & November 2023)
- SW/SD Sample (January & June 2023)
- SW/SD Sample (March 2023)
- SW/SD Sample (November 2023)

0 25 50
Feet

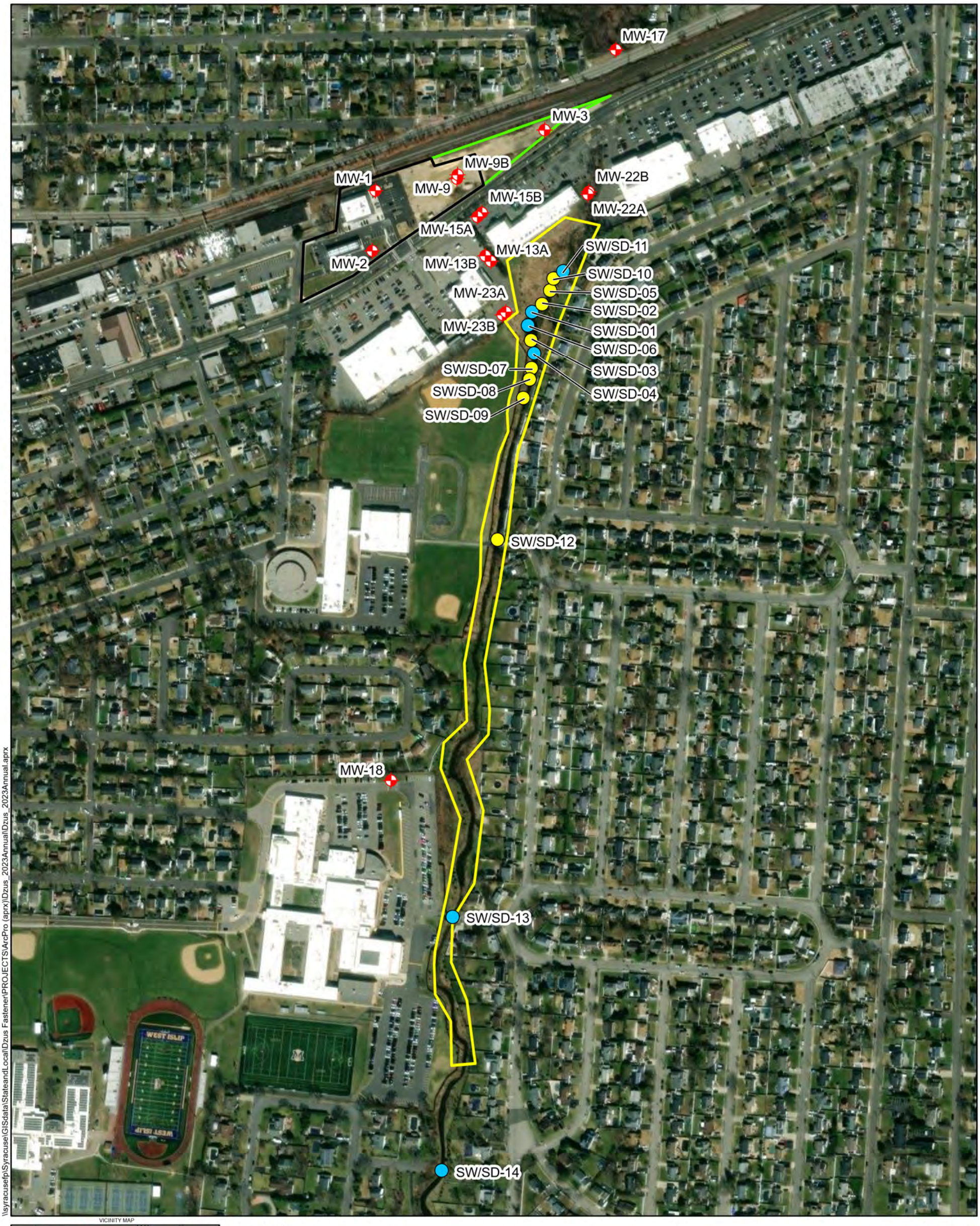
N

Figure 9
Surface Water and Sediment Analytical Results 2021-2023
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

\\syracusefp\Syracuse\GIS\data\StateandLocal\Dzus Fastener\PROJECTS\ArcPro (aprx)\Dzus_2023Annual\Dzus_2023Annual.aprx



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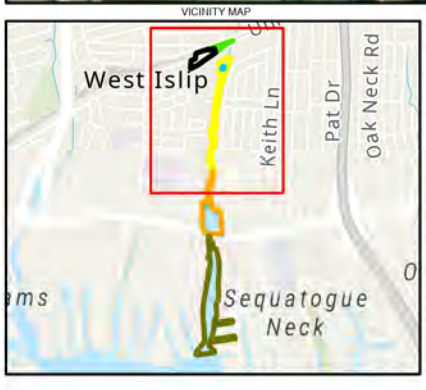
VICINITY MAP



Legend

Operable Units
- OU1
- OU3
- OU6

Monitoring Well

Co-Located Surface Water/Sediment Samples
- Sample for Sediment Only
- Sample for Surface Water and Sediment

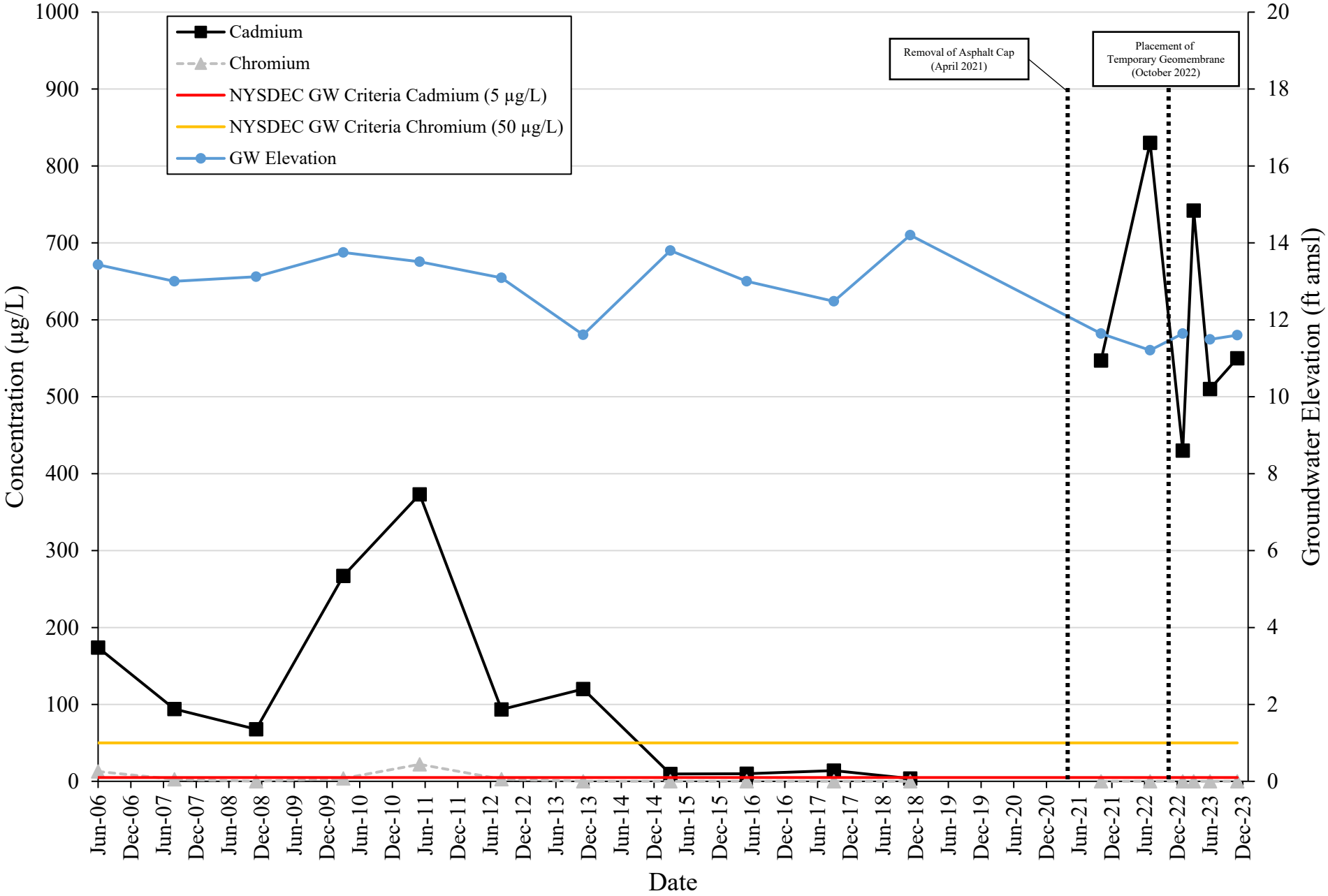
0 250 500
Feet
N

Figure 10
Proposed 2024 Sampling Locations
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 2/1/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE Department of Environmental Conservation

Figure 11
MW-13A: Metal Concentrations Over Time (June 2006 - November 2023)



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Tables

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Table 1. 2023 Sample Collection and Analyses Summary

Samples	Sample Matrix	Total TAL Metals via EPA Method 6010 and 6020	Dissolved TAL Metals via EPA Method 6010 and 6020	Total Mercury via EPA Method 7470A	Dissolved Mercury via EPA Method 7470A	PFAS Analysis via EPA Method 1633	Total Cadmium and Chromium via EPA Method 6010	Dissolved Cadmium and Chromium via EPA Method 6010	Hardness via EPA Method 2340B
GROUNDWATER SAMPLING									
Number of Parent Samples	Groundwater	60	60	60	60	4			
Field Duplicate		3	3	3	3	1			
Rinse Blank[(a)]		0	0	0	0	1			
Matrix Spike/Matrix Spike Duplicate		3	3	3	3	1			
Total Number of Analyses		**66**	**66**	**66**	**66**	**7**			
SURFACE WATER SAMPLING									
Number of Parent Samples	Willetts Creek Surface Water							14	14
Field Duplicate								3	3
Rinse Blank[(a)]								0	0
Matrix Spike/Matrix Spike Duplicate								3	3
Total Number of Analyses								**20**	**20**
SEDIMENT SAMPLING									
Number of Parent Samples	Willetts Creek Surficial Sediment						19		
Field Duplicate							3		
Rinse Blank[(a)]							0		
Matrix Spike/Matrix Spike Duplicate							3		
Total Number of Analyses							**25**		

Notes:

[(a)] Rinse blanks were not collected because all samples were collected with specifically designated equipment
EPA = U.S. Environmental Protection Agency
PFAS = Per- and polyfluoroalkyl substances
TAL =Target Analyte List

Table 2. 2023 Groundwater Elevation Data

Monitoring Well ID	Northing	Easting	Well Diameter (in.)	Well Depth (ft)	Top of Riser Elevation (ft amsl)	Gauge Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-1	1177896.17	198086.26	2	15.0	21.20	1/17/2023	10.03	11.17
						3/27/2023	9.45	11.75
						6/27/2023	10.18	11.02
						11/11/2023	10.12	11.08
MW-2	1177885.14	197878.54	2	14.0	19.04	1/17/2023	8.56	10.48
						3/27/2023	8	11.04
						6/27/2023	9.69	9.35
						11/11/2023	8.62	10.42
MW-3	1178480.06	198294.82	2	14.0	20.66	1/17/2023	9.4	11.26
						3/27/2023	6.7	13.96
						6/27/2023	7.39	13.27
						11/11/2023	7.37	13.29
MW-9	1178177.95	198127.56	2	11.5	21.27	1/17/2023	10.23	11.04
						3/27/2023	7.7	13.57
						6/27/2023	9.83	11.44
						11/11/2023	9.8	11.47
MW-9B	1178179.94	198140.77	2	44.5	21.07	1/17/2023	10.42	10.65
						3/27/2023	8.09	12.98
						6/27/2023	10.54	10.53
						11/11/2023	10.48	10.59
MW-13A	1178294.25	197843.49	2	10.7	16.02	1/17/2023	4.7	11.32
						3/27/2023	4.3	11.72
						6/27/2023	4.85	11.17
						11/11/2023	4.74	11.28
MW-13B	1178275.50	197862.07	2	44.3	15.82	1/17/2023	4.55	11.27
						3/27/2023	4.15	11.67
						6/27/2023	4.85	10.97
						11/11/2023	4.58	11.24
MW-15A	1178248.47	197996.20	2	28.8	19.09	1/17/2023	7.31	11.78
						3/27/2023	6.8	12.29
						6/27/2023	7.43	11.66
						11/11/2023	7.38	11.71
MW-15B	1178263.75	198010.44	2	84.7	19.06	1/17/2023	7.25	11.81
						3/27/2023	6.45	12.61
						6/27/2023	7.38	11.68
						11/11/2023	7.31	11.75
MW-17	1178725.97	198570.78	2	16.0	21.82	1/17/2023	8.94	12.88
						3/27/2023	8.35	13.47
						6/27/2023	9.05	12.77
						11/11/2023	9.05	12.77
MW-18	1177949.79	196051.70	2	13.5	14.31	1/17/2023	6.12	8.19
						3/27/2023	6	8.31
						6/27/2023	6.31	8.00
						11/11/2023	6.18	8.13
MW-22A	1178629.59	198073.81	2	14.4	20.09	1/17/2023	7.95	12.14
						3/27/2023	7.47	12.62
						6/27/2023	8.12	11.97
						11/11/2023	8.03	12.06
MW-22B	1178632.66	198082.20	2	44.5	19.95	1/17/2023	7.76	12.19
						3/27/2023	7.29	12.66
						6/27/2023	8.89	11.06
						11/11/2023	7.85	12.10
MW-23A	1178346.20	197667.96	2	14.3	17.34	1/17/2023	6.69	10.65
						3/27/2023	6.46	10.88
						6/27/2023	6.88	10.46
						11/11/2023	6.82	10.52
MW-23B	1178334.47	197658.41	2	44.5	17.29	1/17/2023	6.71	10.58
						3/27/2023	6.54	10.75
						6/27/2023	6.81	10.48
						11/11/2023	6.76	10.53

Notes:

amsl = Above mean sea level
ft = Foot (feet)
in. = Inch(es)

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2
Sample Name			152033-SM-MW-1-0123	MW-1	152033-SM-MW-1-0623	152033-MW-1	152033-SM-MW-2-0123	MW-2	152033-SM-MW-2-0623	152033-MW-2
Sample Date			1/17/2023	3/27/2023	6/26/2023	11/14/2023	1/17/2023	3/28/2023	6/27/2023	11/14/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	< 11 U	< 45 U	< 20 U	< 15 U	< 11 U	< 45 U	< 20 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	15 J	22	20 J	13 J	23 J	30	33 J	25 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	0.95 J	2 J	< 1.8 U	< 1.3 U	3.8 J	4	**6.7**	3.5 J
Calcium	NSL	µg/L	14000	21000	14000	12000	12000	35400	18000	16000
Chromium, Total	50	µg/L	< 2.5 U	5	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	25	7	< 3.6 U	< 4.7 U	25	6	< 3.6 U	< 4.7 U
Iron	300	µg/L	65	< 10 U	< 47 U	< 23 U	30 J	< 10 U	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	3000	2890	2300	2500	2100	5060	2900	2700
Manganese	300	µg/L	11	75	5.4 J	< 2.8 U	< 1.7 U	< 5 U	4.9 J	< 2.8 U
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	1100 J	1600	1500 J	850 J	1100 J	1900	1900 J	1500 J
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**21000**	**27300**	**40000**	20000	**34000**	**32100**	**39000**	**39000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	600	33	15	7.5 J	13	4 J	12	< 4 U
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	270	27	70	65	31 J	16 J	< 45 U	< 20 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	13 J	22	22 J	14 J	17 J	32	33 J	26 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	2 J	< 1.8 U	< 1.3 U	1.6 J	4 J	**6.8**	3.8 J
Calcium	NSL	µg/L	6100	20400	16000	12000	14000	34900	18000	17000
Chromium, Total	50	µg/L	< 2.5 U	7	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	22	7	4.4 J	< 4.7 U	20	6	< 3.6 U	< 4.7 U
Iron	300	µg/L	**440**	70	130	120	**400**	< 10 U	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	1	< 6.8 U	< 6.5 U	< 3 U	< 1 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	1100	2930	2500	2600	3300	4970	3000	2900
Manganese	300	µg/L	130	86	24	17	16	< 5 U	6.2 J	< 2.8 U
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	1400 J	1800	1700 J	820 J	930 J	2300	2000 J	1500 J
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	12000	**29400**	**40000**	**21000**	**22000**	**38400**	**39000**	**39000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	6.5 J	< 7.1 U	< 3.1 U	2 J	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	16	40	13	8.5 J	580	5 J	< 4.2 U	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-3	MW-3	MW-3	MW-3	MW-9	MW-9	MW-9	MW-9
Sample Name			152033-SM-MW-3-0123	MW-3	152033-SM-MW-3-0623	152033-MW-3	152033-SM-MW-9-0123	MW-9A	152033-SM-MW-9-0623	152033-MW-9
Sample Date			1/17/2023	3/27/2023	6/26/2023	11/14/2023	1/17/2023	3/28/2023	6/27/2023	11/13/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	13	1000	41 J	< 15 U	< 11 U	< 45 U	< 20 U
Antimony	3	µg/L	< 8.9 U	< 3 U	**8.6 J**	< 11 U	**13 J**	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	14 J	18	22 J	16 J	29 J	34	26 J	26 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	4.1	**10**	**16**	< 1.3 U	**13**	**34**	**5.3**	**8.1**
Calcium	NSL	µg/L	14000	18100	18000	16000	35000	38700	34000	31000
Chromium, Total	50	µg/L	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	4.9 J	2 J	< 3.6 U	< 4.7 U	13	2 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	200	30	**1000**	37 J	69	40	61	< 23 U
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	2200	2690	3000	2600	5200	5200	4600	4100
Manganese	300	µg/L	190	68	72	150	41	85	13	**410**
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	4 J	< 9.8 U	6.5 J	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	2800	3000	3400	4000	2100	3500	1800 J	2700
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	15000	17100	17000	17000	**21000**	**44800**	**26000**	**21000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	< 4.2 U	4 J	15	< 4 U	< 4.2 U	3 J	< 4.2 U	5.9 J
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	24 J	659	< 45 U	200	1000	124	2700	47 J
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U	< 4.7 U	< 4 U	1.1	< 7.3 U
Barium	1000	µg/L	22 J	18	20 J	15 J	17 J	33	37 J	27 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	4.2	**11**	< 1.8 U	**18**	**7.4**	**33**	**7**	**8.5**
Calcium	NSL	µg/L	10000	17100	19000	16000	13000	35000	35000	32000
Chromium, Total	50	µg/L	< 2.5 U	1	< 6.8 U	< 9.3 U	2.9 J	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	1.5 J	< 5 U	2.6 J	< 1.7 U
Copper	200	µg/L	< 3.6 U	1 J	< 3.6 U	< 4.7 U	< 3.6 U	< 5 U	7.0 J	< 4.7 U
Iron	300	µg/L	31 J	**710**	72	180	**1300**	180	**4400**	66
Lead	25	µg/L	< 3 U	< 1 U	< 6.8 U	< 6.5 U	< 3 U	< 1 U	11	< 6.5 U
Magnesium	35000	µg/L	2000	2640	3100	2500	2200	4860	4900	4200
Manganese	300	µg/L	2.4 J	72	68	140	190	85	47	**410**
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	6	< 9.8 U	5.1 J	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	970 J	3400	3500	3700	2700	3600	2100	2700
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**32000**	19500	17000	16000	14000	**46400**	**28000**	**21000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	3 J	< 3.8 U	< 7.1 U	< 3.1 U	< 10 U	6.5 J	< 7.1 U
Zinc	2000	µg/L	21	6 J	4.4 J	< 4 U	19	4 J	18	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-9B	MW-9B	MW-9B	MW-9B	MW-13A	MW-13A	MW-13A	MW-13A
Sample Name			152033-SM-MW-9B-0123	MW-9B	152033-SM-MW-9B-0623	152033-MW-9B	152033-SM-MW-13A-0123	MW-13A	152033-SM-MW-13A-0623	152033-SM-GW-FD2-0623
Sample Date			1/17/2023	3/28/2023	6/27/2023	11/13/2023	1/18/2023	3/27/2023	6/27/2023	6/27/2023
Parent Sample										152033-SM-MW-13A-0623
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	< 11 U	< 45 U	< 20 U	< 15 U	< 11 U	46 J	< 45 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	**8.3 J**	**8.5 J**
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 0.78 U
Barium	1000	µg/L	12 J	11	8.8 J	17 J	22 J	24	20 J	20 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U	**420**	**742**	**510**	**520**
Calcium	NSL	µg/L	7100	6810	5800	12000	19000	24200	21000	21000
Chromium, Total	50	µg/L	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 6.8 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 2.1 U
Copper	200	µg/L	5.8 J	< 5 U	< 3.6 U	< 4.7 U	6.4 J	1 J	< 3.6 U	< 3.6 U
Iron	300	µg/L	70	< 10 U	< 47 U	< 23 U	**460**	150	130	110
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.8 U
Magnesium	35000	µg/L	1200	1130	970	2000	3600	4370	3400	3400
Manganese	300	µg/L	120	35	8.8 J	12	180	50	12	11
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	< 4 U	< 9.8 U	< 9.8 U
Potassium	NSL	µg/L	1600 J	1500	1300 J	1900 J	2300	2600	2600	2500
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 14 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 3.5 U
Sodium	20000	µg/L	12000	11000	11000	16000	**38000**	**42600**	**33000**	**32000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 21 U
Vanadium	NSL	µg/L	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U	3.8 J	< 11 U	< 3.8 U	< 3.8 U
Zinc	2000	µg/L	< 4.2 U	3 J	< 4.2 U	5.9 J	< 4.2 U	2 J	< 4.2 U	< 4.2 U
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	110 J	119	220	240	27 J	13 J	< 45 U	< 45 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 8.2 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 0.78 U
Barium	1000	µg/L	29 J	11	11 J	18 J	23 J	23	20 J	22 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	**13**	< 4 U	< 1.8 U	< 1.3 U	**430**	**798**	**530**	**490**
Calcium	NSL	µg/L	33000	6440	6100	12000	18000	22400	21000	21000
Chromium, Total	50	µg/L	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 6.8 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	2.7 J	< 5 U	< 2.1 U	< 2.1 U
Copper	200	µg/L	< 3.6 U	< 5 U	< 3.6 U	< 4.7 U	< 3.6 U	< 5 U	< 3.6 U	< 3.6 U
Iron	300	µg/L	190	180	**330**	**340**	**1400**	**350**	270	230
Lead	25	µg/L	< 3 U	2	< 6.8 U	< 6.5 U	< 3 U	2	< 6.8 U	< 6.8 U
Magnesium	35000	µg/L	1200	1170	1100	2100	3700	4170	3500	3500
Manganese	300	µg/L	40	36	14	19	240	73	37	38
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	1 J	< 9.8 U	< 9.8 U
Potassium	NSL	µg/L	1900 J	1600	1400 J	1900 J	2200	2800	2400	2600
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 14 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 3.5 U
Sodium	20000	µg/L	20000	11700	11000	15000	**38000**	**43500**	**31000**	**33000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 21 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U	< 3.1 U	< 10 U	< 3.8 U	< 3.8 U
Zinc	2000	µg/L	14	3 J	< 4.2 U	< 4 U	15	3 J	< 4.2 U	< 4.2 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

		Location ID	**MW-13A**	**MW-13A**	**MW-13B**	**MW-13B**	**MW-13B**	**MW-13B**	**MW-13B**
		Sample Name	**152033-MW-13A**	**152033-MW-FD-01**	**152033-SM-MW-13B-0123**	**152033-SM-MW-FD-01182023**	**MW-13B**	**152033-SM-MW-13B-0623**	**152033-MW-13B**
		Sample Date	**11/14/2023**	**11/14/2023**	**1/18/2023**	**1/18/2023**	**3/28/2023**	**6/27/2023**	**11/14/2023**
		Parent Sample		**152033-MW-13A**		**152033-SM-MW-13B_20230118**			
Analyte	**NYSDEC AWQS[1]**	**Unit**							
			Dissolved Metals (SW6010/6020/7470)						
Aluminum	NSL	µg/L	< 20 U	< 20 U	< 15 U	< 15 U	< 11 U	< 45 U	< 20 U
Antimony	3	µg/L	< 11 U	< 11 U	< 8.9 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 7.3 U	< 7.3 U	< 4.7 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	23 J	22 J	27 J	27 J	32	36 J	76
Beryllium	3	µg/L	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	**550**	**510**	< 0.8 U	< 0.8 U	1 J	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	23000	23000	6200	6100	7100	8100	10000
Chromium, Total	50	µg/L	< 9.3 U	< 9.3 U	20	20	21	< 6.8 U	28
Cobalt	NSL	µg/L	< 1.7 U	2.0 J	< 1.4 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	< 4.7 U	< 4.7 U	5.3 J	4.7 J	1 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	230	240	35 J	< 19 U	< 10 U	170	< 23 U
Lead	25	µg/L	< 6.5 U	< 6.5 U	< 3 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	4100	4200	970	960	1050	1300	1700
Manganese	300	µg/L	50	51	1.8 J	2.0 J	5	19	14
Mercury	0.7	µg/L	< 0.14 U	< 0.14 U	< 0.04 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	3.2 J	3.2 J	< 8.8 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	2600	2600	1400 J	1500 J	1600	1400 J	2400
Selenium	10	µg/L	< 18 U	< 18 U	< 11 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 2.7 U	< 2.7 U	< 3.2 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**33000**	**33000**	16000	16000	15700	15000	**49000**
Thallium	0.5	µg/L	< 19 U	< 19 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 7.1 U	< 7.1 U	< 3.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	4.5 J	9.0 J	< 4.2 U	< 4.2 U	2 J	< 4.2 U	< 4 U
			Total Metals (SW6010/6020/7470)						
Aluminum	NSL	µg/L	21 J	24 J	30 J	20 J	26	< 45 U	48 J
Antimony	3	µg/L	< 11 U	< 11 U	< 8.9 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 7.3 U	< 7.3 U	< 4.7 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	25 J	24 J	26 J	26 J	31	36 J	77
Beryllium	3	µg/L	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	**540**	**560**	0.99 J	1.0 J	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	24000	23000	5800	5600	6950	8200	10000
Chromium, Total	50	µg/L	< 9.3 U	< 9.3 U	22	21	22	< 6.8 U	28
Cobalt	NSL	µg/L	2.1 J	2.1 J	< 1.4 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	< 4.7 U	< 4.7 U	3.8 J	< 3.6 U	2 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	**1200**	**1200**	130	100	70	170	130
Lead	25	µg/L	< 6.5 U	< 6.5 U	< 3 U	< 3 U	3	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	4100	4000	930	920	1100	1300	1600
Manganese	300	µg/L	91	91	11	9.9 J	9	19	22
Mercury	0.7	µg/L	< 0.14 U	< 0.14 U	< 0.04 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 2.4 U	< 2.4 U	< 8.8 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	2500	2500	1400 J	1300 J	1800	1400 J	2300
Selenium	10	µg/L	< 18 U	< 18 U	< 11 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 2.7 U	< 2.7 U	< 3.2 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**33000**	**32000**	15000	15000	17600	14000	**48000**
Thallium	0.5	µg/L	< 19 U	< 19 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 7.1 U	< 7.1 U	< 3.1 U	< 3.1 U	3 J	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	< 4 U	< 4 U	12	8.7 J	4 J	< 4.2 U	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-15A	MW-15A	MW-15A	MW-15A	MW-15B	MW-15B	MW-15B	MW-15B
Sample Name			152033-SM-MW-15A-0123	MW-15A	152033-SM-MW-15A-0623	152033-MW-15A	152033-SM-MW-15B-0123	MW-15B	152033-SM-MW-15B-0623	152033-MW-15B
Sample Date			1/18/2023	3/28/2023	6/27/2023	11/14/2023	1/18/2023	3/28/2023	6/27/2023	11/14/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	< 11 U	< 45 U	< 20 U	< 15 U	< 11 U	< 45 U	28 J
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	15 J	6 J	44 J	6.2 J	42 J	42	< 5.1 U	38 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	1.7 J	1 J	< 1.8 U	< 1.3 U	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	17000	96200	12000	10000	11000	11900	8500	12000
Chromium, Total	50	µg/L	3.8 J	3	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	4.4 J	< 5 U	< 3.6 U	< 4.7 U	4.0 J	5 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	42 J	< 10 U	< 47 U	< 23 U	75	30	< 47 U	**1900**
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	2100	1190	4500	1200	4500	4600	1000	5000
Manganese	300	µg/L	< 1.7 U	< 5 U	84	< 2.8 U	73	79	< 3.3 U	130
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	2300	1500	1400 J	1500 J	1300 J	1400	1200 J	1500 J
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**31000**	12600	**35000**	15000	**35000**	**36300**	8300	**35000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	< 4.2 U	< 11 U	19	< 4 U	15	23	< 4.2 U	< 4 U
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	21 J	10 J	< 45 U	39 J	< 15 U	35	< 45 U	25 J
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	18 J	7 J	49 J	8.4 J	41 J	46	6.3 J	39 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	**18**	4	< 1.8 U	**16**	< 0.8 U	< 4 U	**10**	< 1.3 U
Calcium	NSL	µg/L	16000	9530	12000	10000	10000	12700	8900	12000
Chromium, Total	50	µg/L	4.1 J	4	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	6.6 J	< 5 U	< 3.6 U	< 4.7 U	< 3.6 U	6	< 3.6 U	< 4.7 U
Iron	300	µg/L	41 J	20	**500**	66	**1200**	**710**	< 47 U	**2400**
Lead	25	µg/L	< 3 U	2	< 6.8 U	< 6.5 U	< 3 U	< 1 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	2100	1250	4700	1100	4400	4800	1100	5200
Manganese	300	µg/L	250	64	87	270	71	87	160	130
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	1 J	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	2200	1700	1400 J	1400 J	1100 J	1500	1200 J	1500 J
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**31000**	14200	**35000**	15000	**34000**	**35100**	8400	**35000**
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	12	< 10 U	16	< 4 U	21	26	< 4.2 U	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18
Sample Name			152033-SM-MW-17-0123	MW-17	152033-SM-MW-17-0623	152033-MW-17	152033-SM-MW-18-0123	MW-18	152033-SM-MW-18-0623	152033-MW-18
Sample Date			1/18/2023	3/28/2023	6/27/2023	11/13/2023	1/18/2023	3/28/2023	6/27/2023	11/13/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	33 J	33	130	98	< 15 U	16	< 45 U	< 20 U
Antimony	3	µg/L	**14 J**	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	31 J	15	15 J	28 J	11 J	7 J	5.4 J	10 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	37000	28000	10000	11000	18000	11900	12000	15000
Chromium, Total	50	µg/L	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	2.5 J	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	5.0 J	3 J	4.7 J	< 4.7 U	< 3.6 U	< 5 U	< 3.6 U	< 4.7 U
Iron	300	µg/L	100	20	**470**	**870**	30 J	< 10 U	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	10000	7810	2200	2400	2300	1400	1200	1600
Manganese	300	µg/L	170	21	**440**	**830**	< 1.7 U	< 5 U	< 3.3 U	< 2.8 U
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U		< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	3.2 J	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	1100 J	600	710 J	760 J	1900 J	1400	1300 J	2100
Selenium	10	µg/L	**12 J**	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	7700	4620	3700	3600	13000	8930	7400	20000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	4.8 J	< 11 U	< 3.8 U	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	16	6 J	33	43	< 4.2 U	< 11 U	< 4.2 U	< 4 U
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	140	222	380	2600	23 J	22	< 45 U	< 20 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	0.81	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	31 J	16	17 J	55	14 J	11	6.9 J	12 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	34000	27800	11000	12000	17000	12800	12000	16000
Chromium, Total	50	µg/L	< 2.5 U	1	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	4.8 J	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	< 3.6 U	4 J	6.3 J	8.6 J	< 3.6 U	2 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	**410**	**480**	**990**	**6700**	22 J	20	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	3	6.8 J	**36**	< 3 U	1	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	9800	7780	2500	2500	2300	1460	1200	1700
Manganese	300	µg/L	180	45	**440**	**1200**	110	170	53	51
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	4.5 J	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	980 J	600	730 J	860 J	1800 J	1500	1400 J	2100
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	7500	4760	3700	3700	13000	9300	7600	20000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	< 3.8 U	9.0 J	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	27	12	36	110	12	6 J	< 4.2 U	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-22A	MW-22A	MW-22A	MW-22A	MW-22B	MW-22B	MW-22B	MW-22B
Sample Name			152033-SM-MW-22A-0123	MW-22A	152033-SM-MW-22A-0623	152033-MW-22A	152033-SM-MW-22B-0123	MW-22B	152033-SM-MW-22B-0623	152033-MW-22B
Sample Date			1/18/2023	3/28/2023	6/26/2023	11/14/2023	1/18/2023	3/28/2023	6/26/2023	11/14/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	< 11 U	45 J	< 20 U	< 15 U	< 11 U	< 45 U	< 20 U
Antimony	3	µg/L	**14 J**	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	**8.7 J**	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	15 J	15	11 J	25 J	28 J	22	22 J	25 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	39000	29600	18000	81000	24000	24900	25000	23000
Chromium, Total	50	µg/L	< 2.5 U	2	< 6.8 U	16	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	1.9 J	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	< 3.6 U	< 5 U	< 3.6 U	< 4.7 U	< 3.6 U	1 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	**2000**	**770**	**1500**	**3900**	29 J	< 10 U	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	5800	4380	2700	12000	4000	3990	3900	3700
Manganese	300	µg/L	**370**	**345**	200	**590**	**410**	**338**	**450**	**450**
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	5.9 J	< 8.8 U	< 4 U	< 9.8 U	2.5 J
Potassium	NSL	µg/L	800 J	800	650 J	1000 J	3200	2800	2500	2800
Selenium	10	µg/L	**16 J**	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**21000**	**29000**	**30000**	18000	20000	16300	14000	18000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	3.8 J	< 11 U	< 3.8 U	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	< 4.2 U	9 J	< 4.2 U	4.5 J	< 4.2 U	< 11 U	< 4.2 U	5.0 J
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	< 15 U	56	70	68	< 15 U	< 20 U	< 45 U	< 20 U
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	1.4	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	14 J	15	12 J	26 J	30 J	26	26 J	27 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	1 J	< 1.8 U	1.6 J	< 0.8 U	< 4 U	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	36000	29000	19000	83000	23000	25300	26000	23000
Chromium, Total	50	µg/L	< 2.5 U	3 J	< 6.8 U	< 9.3 U	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	1.8 J	2 J	2.4 J	< 1.7 U
Copper	200	µg/L	< 3.6 U	3	< 3.6 U	< 4.7 U	< 3.6 U	2 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	**2000**	**2870**	**1700**	**4400**	**670**	**740**	250	74
Lead	25	µg/L	< 3 U	< 1 U	< 6.8 U	< 6.5 U	< 3 U	< 1 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	5500	4180	2800	12000	3900	3940	4000	3700
Manganese	300	µg/L	**350**	**330**	210	**600**	**500**	**597**	**630**	**620**
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	710 J	900	640 J	970 J	3100	2900	2700	2800
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**21000**	**26800**	**29000**	18000	19000	15600	15000	16000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	17	53	15	62	7.8 J	2 J	< 4.2 U	< 4 U

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. 2023 Groundwater Analytical Results - Metals

Location ID			MW-23A	MW-23A	MW-23A	MW-23A	MW-23B	MW-23B	MW-23B	MW-23B
Sample Name			152033-SM-MW-23A-0123	MW-23A	152033-SM-MW-23A-0623	152033-MW-23A	152033-SM-MW-23B-0123	MW-23B	152033-SM-MW-23B-0623	152033-MW-23B
Sample Date			1/18/2023	3/28/2023	6/27/2023	11/14/2023	1/18/2023	3/28/2023	6/27/2023	11/14/2023
Parent Sample										
Analyte	NYSDEC AWQS[1]	Unit								
Dissolved Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	71	85	110	100	< 15 U	< 11 U	< 45 U	< 20 U
Antimony	3	µg/L	**11 J**	< 3 U	**8.2 J**	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U	< 4.7 U	< 3 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	21 J	18	25 J	21 J	21 J	15	22 J	20 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	< 0.8 U	3 J	< 1.8 U	< 1.3 U	< 0.8 U	1 J	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	30000	29600	31000	29000	7300	7030	7800	7800
Chromium, Total	50	µg/L	< 2.5 U	< 1 U	< 6.8 U	< 9.3 U	2.9 J	2	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	4.1 J	2 J	< 3.6 U	< 4.7 U	5.6 J	2 J	< 3.6 U	< 4.7 U
Iron	300	µg/L	**1200**	**1140**	**1300**	**820**	36 J	< 10 U	< 47 U	< 23 U
Lead	25	µg/L	< 3 U	< 2 U	< 6.8 U	< 6.5 U	< 3 U	< 2 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	8200	6790	7600	6700	1600	1480	1700	1600
Manganese	300	µg/L	100	108	120	100	6.9 J	14	22	9.3 J
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	3.2 J	< 8.8 U	< 4 U	< 9.8 U	5.1 J
Potassium	NSL	µg/L	3700	4100	4700	4000	1400 J	1300	1500 J	1400 J
Selenium	10	µg/L	**12 J**	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**67000**	**71700**	**77000**	**81000**	12000	**40800**	11000	11000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	5.6 J	2 J	4.7 J	< 7.1 U	< 3.1 U	< 11 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	< 4.2 U	2 J	< 4.2 U	< 4 U	15	22	16	25
Total Metals (SW6010/6020/7470)										
Aluminum	NSL	µg/L	170	143	150	260	85	57	130	110
Antimony	3	µg/L	< 8.9 U	< 3 U	< 8.2 U	< 11 U	< 8.9 U	< 3 U	< 8.2 U	< 11 U
Arsenic	25	µg/L	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U	< 4.7 U	< 4 U	< 0.78 U	< 7.3 U
Barium	1000	µg/L	21 J	18	25 J	21 J	23 J	15	25 J	22 J
Beryllium	3	µg/L	< 1 U	< 1 U	< 1.2 U	< 1.2 U	< 1 U	< 1 U	< 1.2 U	< 1.2 U
Cadmium	5	µg/L	**5.1**	**6**	< 1.8 U	**5.6**	1.8 J	1 J	< 1.8 U	< 1.3 U
Calcium	NSL	µg/L	28000	29900	32000	29000	7500	7180	8200	7800
Chromium, Total	50	µg/L	< 2.5 U	1	< 6.8 U	< 9.3 U	4.6 J	3	< 6.8 U	< 9.3 U
Cobalt	NSL	µg/L	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U	< 1.4 U	< 5 U	< 2.1 U	< 1.7 U
Copper	200	µg/L	7.3 J	6	< 3.6 U	4.9 J	4.6 J	3 J	3.7 J	< 4.7 U
Iron	300	µg/L	**1500**	**1410**	**1300**	**1300**	170	100	280	170
Lead	25	µg/L	< 3 U	1	< 6.8 U	< 6.5 U	< 3 U	< 1 U	< 6.8 U	< 6.5 U
Magnesium	35000	µg/L	7600	6670	7800	6600	1500	1490	1900	1700
Manganese	300	µg/L	100	105	120	100	12	15	25	11
Mercury	0.7	µg/L	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U	< 0.04 U	< 0.2 U	< 0.14 U	< 0.14 U
Nickel	100	µg/L	< 8.8 U	< 4 U	< 9.8 U	< 2.4 U	< 8.8 U	7	< 9.8 U	< 2.4 U
Potassium	NSL	µg/L	3700	3900	4700	4000	1200 J	1400	1500 J	1500 J
Selenium	10	µg/L	< 11 U	< 10 U	< 14 U	< 18 U	< 11 U	< 10 U	< 14 U	< 18 U
Silver	50	µg/L	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U	< 3.2 U	< 5 U	< 3.5 U	< 2.7 U
Sodium	20000	µg/L	**67000**	**67600**	**76000**	**78000**	11000	**37300**	11000	10000
Thallium	0.5	µg/L	< 19 U	< 0.5 U	< 21 U	< 19 U	< 19 U	< 0.5 U	< 21 U	< 19 U
Vanadium	NSL	µg/L	< 3.1 U	< 10 U	5.6 J	< 7.1 U	< 3.1 U	< 10 U	< 3.8 U	< 7.1 U
Zinc	2000	µg/L	11	3 J	< 4.2 U	< 4 U	45	25	24	26

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
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 4. 2023 Groundwater Analytical Results - PFAS

Location ID			MW-9	MW-13A	MW-17	MW-17	MW-18
Sample Name			152033-SM-MW-9-0623	152033-SM-MW-13A-0623	152033-SM-MW-17-0623	152033-SM-GW-FD1-0623	152033-SM-MW-18-0623
Sample Date			6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
Parent Sample						152033-SM-MW-17_20230626	
Analyte	**NYSDEC AWQS[1]**	**Unit**					
PFAS (EPA 1633)							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	< 2 U	< 0.85 U	< 0.9 U	< 0.85 U	< 0.88 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 2.2 U	< 0.95 U	< 1 U	< 0.96 U	< 0.99 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	< 1.4 U	< 0.61 U	< 0.65 U	< 0.61 U	< 0.64 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 2 U	< 0.87 U	< 0.92 U	< 0.87 U	< 0.9 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	< 21 U	< 9 U	< 9.5 U	< 9 U	< 9.3 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	< 18 U	< 7.8 U	< 8.2 U	< 7.8 U	< 8 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	< 3.7 U	< 1.6 U	< 1.7 U	< 1.6 U	< 1.6 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	< 1.4 U	< 0.6 U	< 0.64 U	< 0.61 U	< 0.63 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	< 1.7 U	< 0.75 U	< 0.79 U	< 0.75 U	< 0.78 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	< 2.1 U	< 0.92 U	1.0 J	1.1 J	< 0.95 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	< 0.63 U	< 0.27 U	< 0.29 U	< 0.27 U	< 0.28 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	< 0.45 U	< 0.19 U	< 0.21 U	< 0.19 U	< 0.2 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	< 5 U	< 2.2 U	< 2.3 U	< 2.2 U	< 2.2 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	< 0.84 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.38 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 0.9 U	< 0.39 U	< 0.41 U	< 0.39 U	< 0.4 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	< 5.3 U	< 2.3 U	< 2.4 U	< 2.3 U	< 2.4 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	< 1.8 U	< 0.76 U	< 0.81 U	< 0.76 U	< 0.79 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	< 1 U	< 0.43 U	< 0.46 U	< 0.43 U	< 0.45 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	< 1 U	< 0.44 U	< 0.46 U	< 0.44 U	< 0.45 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	< 0.82 U	< 0.35 U	< 0.37 U	< 0.35 U	< 0.37 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	1.7 J	4.3	5.7	5.4	0.30 J
Perfluorobutanoic Acid	NSL	ng/L	5.5 J	8.0	5.9	6.0	< 1.3 U
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 0.64 U	< 0.28 U	< 0.29 U	< 0.28 U	< 0.29 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 0.38 U	0.62 J	1.1	1.1	0.19 J
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	< 0.54 U	< 0.23 U	< 0.25 U	< 0.23 U	< 0.24 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 0.53 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.24 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 0.62 U	0.28 J	< 0.28 U	< 0.27 U	< 0.28 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	2.3	4.8	3.0	3.3	0.27 J
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	1.6 J	2.0	1.7	1.7	1.1
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	2.3	7.6	7.5	7.8	0.61 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	< 0.6 U	< 0.26 U	< 0.27 U	< 0.26 U	< 0.27 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	1.1 J	2.0	1.5	1.4	0.82 J
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	< 0.62 U	< 0.27 U	< 0.29 U	< 0.27 U	< 0.28 U
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	**11**	**23**	**14**	**14**	**2.8**
Perfluorooctanoic acid (PFOA)	6.7	ng/L	**7.5**	**19**	**7.2**	**7.6**	0.91 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	< 0.48 U	0.45 J	< 0.22 U	< 0.21 U	< 0.22 U
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	2.6 J	7.3	5.7	6.1	0.79 J
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 0.51 U	< 0.22 U	< 0.23 U	< 0.22 U	< 0.23 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	NSL	ng/L	< 0.55 U	< 0.24 U	< 0.25 U	< 0.24 U	< 0.25 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 0.56 U	< 0.24 U	< 0.25 U	0.34 J	< 0.25 U

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
EPA = U.S. Environmental Protection Agency
J = Concentration is estimated
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
PFAS = Per- and polyfluoroalkyl substances
U = Analyte not detected
Bold and shaded values exceed the New York GA SW standard.

Table 5. 2023 Surface Water Analytical Results

Location ID			SW-01	SW-01	SW-01	SW-01	SW-01	SW-02
Sample Name			SW-1	152033-SM-SW-01-0623	152033-SM-SW-FD-0623	152033-SW-01	152033-SW-FD-01	SW-2
Sample Date			3/28/2023	6/26/2023	6/26/2023	11/13/2023	11/13/2023	3/28/2023
Parent Sample					152033-SM-SW-01		152033-SW-01	
Analyte	**C[1]**	**Unit**						
Total Hardness	NSL	mg/L	64	60	59	61	60	66.5
			Dissolved Metals (SW6010)					
Cadmium [2]	1.45	µg/L	**3**	< 1.8 U	< 1.8 U	**5.9**	**4.6**	1.3
Chromium [2]	50.4	µg/L	< 1 U	< 6.8 U	< 6.8 U	< 6.8 U	< 9.3 U	< 1 U

Notes:
(1) NYS Class C standard for protection of aquatic life from chronic effects.
(2) Site-specific hardness-corrected surface water standards for dissolved metals. The mean hardness of all samples (62.4 mg/L) was used to calculate screening level.
µg/L = Microgram(s) per liter
AWQS = Ambient Water Quality Standard
mg/L = Milligram(s) per liter
NSL = No screening level available
NYS = New York State
U = Analyte not detected
Bold and shaded values exceed the NYS AWQS standard.

Table 5. 2023 Surface Water Analytical Results

		Location ID	SW-03	SW-04	SW-05	SW-05	SW-06	SW-06
		Sample Name	SW-3	SW-4	152033-SM-SW-05-0123	SW-5	152033-SM-SW-06-0123	152033-SM-SW-FD-01172023
		Sample Date	3/28/2023	3/28/2023	1/18/2023	3/28/2023	1/17/2023	1/17/2023
		Parent Sample						152033-SM-SW-06
Analyte	**C[1]**	**Unit**						
Total Hardness	NSL	mg/L	57.9	59.7	73	70.7	65	65
			Dissolved Metals (SW6010)					
Cadmium [2]	1.45	µg/L	**35.3**	**13.2**	< 0.8 U	1	**19**	**21**
Chromium [2]	50.4	µg/L	2	2	< 2.5 U	< 1 U	< 2.5 U	< 2.5 U

Notes:
(1) NYS Class C standard for protection of aquatic life from chronic effe
(2) Site-specific hardness-corrected surface water standards for dissolved metals. The mean hardness of all samples (62.4 mg/L) was used to calculate screening level.
µg/L = Microgram(s) per liter
AWQS = Ambient Water Quality Standard
mg/L = Milligram(s) per liter
NSL = No screening level available
NYS = New York State
U = Analyte not detected
Bold and shaded values exceed the NYS AWQS standard.

Table 5. 2023 Surface Water Analytical Results

		Location ID	SW-06	SW-07	SW-07	SW-08	SW-12
		Sample Name	SW-6	152033-SM-SW-07-0123	SW-7	152033-SM-SW-08-0123	152033-SW-12
		Sample Date	3/28/2023	1/17/2023	3/28/2023	1/17/2023	11/13/2023
		Parent Sample					
Analyte	**C[1]**	**Unit**					
Total Hardness	NSL	mg/L	66.4	60	58.6	58	56
			Dissolved Metals (SW6010)				
Cadmium [2]	1.45	µg/L	**33.4**	**10**	**15**	**7.4**	**5.2**
Chromium [2]	50.4	µg/L	2	< 2.5 U	< 1 U	< 2.5 U	< 9.3 U

Notes:
(1) NYS Class C standard for protection of aquatic life from chronic effe
(2) Site-specific hardness-corrected surface water standards for dissolved metals. The mean hardness of all samples (62.4 mg/L) was used to calculate screening level.
µg/L = Microgram(s) per liter
AWQS = Ambient Water Quality Standard
mg/L = Milligram(s) per liter
NSL = No screening level available
NYS = New York State
U = Analyte not detected
Bold and shaded values exceed the NYS AWQS standard.

Table 6. 2023 Sediment Analytical Results

Location ID			SED-01	SED-01	SED-01	SED-01	SED-02
Sample Name			SD-01	152033-SM-SD-01-0623	152033-SD-01	152033-SD-FD-01	SD-02
Sample Date			3/28/2023	6/26/2023	11/13/2023	11/13/2023	3/28/2023
Parent Sample						152033-SD-01	
Analyte	NYSDEC CLASS A FRESHW SED[1]	Unit					
			Total Metals (SW6010)				
Cadmium, Total	1	mg/kg	4.95	6.6	0.45 J	19	2.27
Chromium, Total	43	mg/kg	18.9	5.9	14	18	7.03

Notes:
(1) New York State Department of Environmental Conservation Sediment Freshwater & Saltwater Guidance Values (June 2014).
J = Concentration is estimated
mg/kg = Milligram(s) per kilogram
U = Analyte not detected
Bold and shaded values exceed the NY CLASS A SED guidance values.

Table 6. 2023 Sediment Analytical Results

Location ID			SED-03	SED-04	SED-05	SED-05	SED-05
Sample Name			SD-03	SD-04	152033-SM-SD-05-0123	152033-SM-SD-FD-0117202	SD-05
Sample Date			3/28/2023	3/28/2023	1/17/2023	1/17/2023	3/28/2023
Parent Sample						152033-SM-SD-05	
Analyte	NYSDEC CLASS A FRESHW SED[1]	Unit					
			Total Metals (SW6010)				
Cadmium, Total	1	mg/kg	9.82	2.89	4.5	0.44 J	2.46
Chromium, Total	43	mg/kg	3.01	7.89	3.1	4.7 J	2.88

Notes:
(1) New York State Department of Environmental Conservation Sediment Freshwater & Saltwater Guidance Values (June 2014).
J = Concentration is estimated
mg/kg = Milligram(s) per kilogram
U = Analyte not detected
Bold and shaded values exceed the NY CLASS A SED guidance values.

Table 6. 2023 Sediment Analytical Results

Location ID			SED-06	SED-06	SED-07	SED-07	SED-08	SED-08
Sample Name			152033-SM-SD-06-0123	SD-06	152033-SM-SD-07-0123	SD-07	152033-SM-SD-08-0123	152033-SM-SD-08-0623
Sample Date			1/17/2023	3/28/2023	1/17/2023	3/28/2023	1/17/2023	6/26/2023
Parent Sample								
Analyte	**NYSDEC CLASS A FRESHW SED[1]**	**Unit**						
			Total Metals (SW6010)					
Cadmium, Total	1	mg/kg	35 J	8.09	2.6	0.5	6.3	11
Chromium, Total	43	mg/kg	20 J	6.18	4.6	2.22	5	12

Notes:
(1) New York State Department of Environmental Conservation Sediment Freshwater & Saltwater Guidance Values (June 2014).
J = Concentration is estimated
mg/kg = Milligram(s) per kilogram
U = Analyte not detected
Bold and shaded values exceed the NY CLASS A SED guidance values

Table 6. 2023 Sediment Analytical Results

Location ID			SED-09	SED-09	SED-09	SED-10	SED-11	SED-12
Sample Name			152033-SM-SD-09-0123	152033-SM-SD-09-0623	152033-SM-SD-FD-0623	152033-SM-SD-10-0123	152033-SM-SD-11-0123	152033-SD-12
Sample Date			1/17/2023	6/26/2023	6/26/2023	1/17/2023	1/17/2023	11/13/2023
Parent Sample					152033-SM-SD-09			
Analyte	**NYSDEC CLASS A FRESHW SED[1]**	**Unit**						
			Total Metals (SW6010)					
Cadmium, Total	1	mg/kg	0.76	8.6	7.4	1.2	< 0.11 U	4.1
Chromium, Total	43	mg/kg	4	11	9.6	4	1.9	3.5

Notes:
(1) New York State Department of Environmental Conservation Sediment Freshwater & Saltwater Guidance Values (June 2014).
J = Concentration is estimated
mg/kg = Milligram(s) per kilogram
U = Analyte not detected
Bold and shaded values exceed the NY CLASS A SED guidance values

Appendix A

Daily Field Reports and Field Forms

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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	Cloudy	PM
Temperature	29°F	AM	37°F	PM
Wind	4 mph SW	AM	6 mph SW	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 X	NA
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: slips, trips, and falls; dehydration; and traffic.

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1700

(0700) EA onsite. (0732) Calibrate WQMs. (0735) Tailgate health and safety meeting. (0740) Prepare for sediment/surface water sampling. (0817) Collect samples at location SW/SD-09. (0840) Collect samples at location SW/SD-08 – split surface water sample with MS/MSD. (0908) Collect samples at location SW/SD-07. (0941) Collect samples at location SW/SD-06 – split surface water sample with field duplicate [FD]. (1020) Collect samples at location SW/SD-05 – split sediment sample with MS/MSD and FD. (1037) Collect samples at location SW/SD-10. (1057) Collect samples at location SW/SD-11. (1110) Pick up trash behind Captree Plaza. (1115) Classify sediment samples, homogenize and place in 8 oz. plastic jars. (1215) Label all surface water and sediment samples. (1215) Begin gauging and inspecting all onsite and offsite monitoring wells. (1330) Finish gauging and inspecting all onsite and offsite monitoring wells, break for lunch. (1417) Start purge at MW-3. (1420) Start purge at MW-9B. (1450) Collect groundwater sample at MW-3. (1505) Collect groundwater sample at MW-9B. (1514) Start purge at MW-1. (1519) Start purge at MW-9. (1545) Collect groundwater sample at MW-1. (1555) Start purge at MW-2. (1605) Collect groundwater sample at MW-9. (1625) Collect rinse blank [RB]. (1628) Collect groundwater sample at MW-2. (1635) Pack up equipment, label all samples collected. (1700) EA 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
Noah Robinson	EA	Scientist	9.5
Haley Young	EA	Scientist	9.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Geotech Peristaltic Pump	Pine	2	Yes
Horiba U-52 Water Quality Meter	Pine	2	Yes
Heron WLM	Pine	2	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

Site Photographs (Descriptions Below)

EA field staff measuring the width of Willetts Creek at sample location SW/SD-06 (looking east).

Location of sample location SW/SD-09 (looking east).

EA field staff measuring water quality parameters (pH, Temperature, ORP, Conductivity, Turbidity, Dissolved Oxygen) in Willetts Creek.	MW-9B, installed at OU-1. Being gauged and inspected.
MW-3, installed at OU-1. Being gauged and inspected.	

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 01/17/2022**

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:		

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:			

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:

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:			

* BART – Best Available Retrofit Technology

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. – Lincoln Backman-Lowe

Site Location: West Islip, NY

Weather Conditions

General Description	Sunny	AM	Sunny	PM
Temperature	43°F	AM	53°F	PM
Wind	5 mph NW	AM	11 mph NW	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 X	NA
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: slips, trips, and falls; dehydration; and traffic.

Summary of Work Performed	Arrived at site:	0750	Departed Site:	1720

(0750) EA onsite. (0800) Tailgate health and safety meeting. (0805) Calibrate Horiba U-52 water quality meter. (0820) Start purge at MW-22A. (0822) Start purge at MW-22B. (0915) Collect groundwater samples at MW-22A and MW-22B; inspect OU-1 cap. (0940) Start purge at MW-15B. (0941) Start purge at MW-15A. (1022) Collect groundwater samples at MW-15A. (1024) Collect groundwater samples at MW-15B. (1043) Start purge at MW-13B. (1044) Start purge at MW-13A. (1117) Collect groundwater samples at MW-13B – split sample with field duplicate [FD]. (1142) Collect groundwater samples at MW-13A. (1200) Break for lunch. (1235) Start purge at MW-23A. (1237) Start purge at MW-23B. (1252) Begin creek corridor inspection. (1327) Collect groundwater samples at MW-23B. (1328) Collect groundwater samples at MW-23A. (1400) Start purge at MW-17. (1505) Collect groundwater samples at MW-17. (1535) Start purge at MW-18. (1610) Collect groundwater samples at MW-18. (1630) Label all groundwater samples, pack coolers for delivery to lab courier, pack equipment. (1720) EA 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	NA X
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
Noah Robinson	EA	Scientist	9.5
Haley Young	EA	Scientist	9.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Geotech Peristaltic Pump	EA	2	Yes
Horiba U-52 Water Quality Meter	EA	2	Yes
Heron WLM	EA	2	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

Site Photographs (Descriptions Below)

Upper reach of Willetts Creek, dry.

Willetts Creek and wetland area (facing S/SE)

OU-1 Cap (facing E).

MW-15A, with sediment and water inside casing.

Signs of scouring/erosion – erosion control fabric visible (Eastern bank near Burling Ln footbridge).

Rip rap adjacent to Burling Ln footbridge (facing W).

Evidence of mowing along creek corridor (facing S/SE)

Signs of scouring/erosion – erosion control fabric visible (Western bank near West Islip Highschool).

Group of waterfowl (including mallards and other duck species) in Willetts Creek.

Phragmites stand(s) that were cut and treated with herbicide in Fall 2022.

Stand of trumpet vine (along West Islip HS fence) that was treated with herbicide in Fall 2022.

Missing panel in fence at 562 Everdell property, additional evidence of mowing along the creek corridor.

Additonal signs of scouring/erosion – erosion control fabric visible (Western bank near West Islip Highschool footbridge).

Additonal signs of scouring/erosion – erosion control fabric visible (Western bank near West Islip Highschool footbridge).

Additional evidence of mowing along the creek corridor.

Tree stakes and herbicide application signs removed from the Willetts Creek corridor.

Comments	
N/A	
Site Inspector(s):	**Date: 01/18/2022**

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:		

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:			

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:

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:			

* BART – Best Available Retrofit Technology

Site Name:	Dzus Fasteners
Date/Time:	01/17/23
Inspector(s):	LBL, NR, HY
Weather Conditions:	35°F, sun

GAUGING LOG

Well ID	Installed Depth	Screen Interval (ft)	DTW	DTB	
MW-1	15.3	5.3-15.3	10.03	15.15	
MW-2	14	4.3-14.3	8.56	13.88	
MW-3	15	5-15	9.40	17.36	stick up: 2.08' from well pad
MW-9	11.5	1.5-11.5	10.23	12.39	stick up: 1.89' from well pad
MW-9B	44.5	34.5-44.5	10.42	45.80	stick up: 1.75' from well pad
MW-13A	10.72	5.72-10.72	4.70	10.90	
MW-13B	44.25	34.25-44.25	4.55	42.40	not secure from runoff
MW-15A	28.8	18.8-28.8	7.31	28.95	
MW-15B	84.7	74.7-84.7	7.25	83.80	
MW-17	16	6-16	8.94	16.49	stick up
MW-18	13.5	3.5-13.5	6.12	13.50	
MW-22A	14.4	4.4-14.4	7.95	14.54	
MW-22B	44.5	34.5-44.5	7.76	44.66	
MW-23A	14.3	4.3-14.3	6.69	14.51	
MW-23B	44.5	34.5-44.5	6.71	44.30	some sediment in bottom of well

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

YSI 3800
pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 1/17/13
TIME: 0731
METER ID: 20E03

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.66	3.97
~~7.0~~		
~~10.0~~		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49 ~~1.413~~	4.56	4.56

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	6.7	0.0
~~126 NTU~~		

ORP CALIBRATION

STANDARD	FINAL READING
240 millivolts	

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
100% AIR SATURATION	26.63	9.96

COMMENTS

SIGNATURE

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

YSI 3800
pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 1/17/23
TIME: 0735
METER ID: 21183

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.83	3.94
7.0	—	—
10.0	—	—

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.50	4.69

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0
126 NTU	—	—

ORP CALIBRATION

STANDARD	FINAL READING
240 millivolts	—

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
100% AIR SATURATION	—	—

COMMENTS

Haley Young
SIGNATURE

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

~~YSI 3800~~
pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 01/18/23
TIME: 0805
METER ID: 20803

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.47	3.97
~~7.0~~		
~~10.0~~		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
~~1.413~~		
4.49 mS/cm	4.66	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.4	0.0
~~126 NTU~~		

ORP CALIBRATION

STANDARD	FINAL READING
~~240 millivolts~~	

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
~~100% AIR SATURATION~~		

COMMENTS

SIGNATURE

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

YSI 3800
pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 1|8|23
TIME: 0811
METER ID: 21\83

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.05	3.91
~~7.0~~	–	–
10.0	–	–

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
~~1413~~ 4.49	4.01	4.47

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0
126 NTU	–	–

ORP CALIBRATION

STANDARD	FINAL READING
240 millivolts	–

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
100% AIR SATURATION	13.55	

COMMENTS

Haley Young
SIGNATURE

WELL PURGING AND SAMPLING RECORD

Site Name/Location D205	Project No: 1102515	Page 1 of 1
Well ID MW-01	Date 1/17/23	Time 1514
Well Site Description 7/11 Parking Lot		
Weather/Temp 44 F Overcast		
Field Technician NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 5.3 - 15.3
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 15.15	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 10.03
Product column height (ft) NA	Water column height (ft) 5.12
Product volume (Gallons) NA	Water volume (Gallons) 0.83

PURGE INFORMATION

Pump Type / ID Peri pump		Water Quality Meter Type / ID Horiba U-52 21183
Pump Intake Depth (ft) 23ft From bottom		Flow-Thru Cell Volume (L) 1
Purge Start Time 1514		Appearance/Odor Clear colorless odorless
Purge End Time 1545		Appearance/Odor Clear colorless odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.03
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.50		Total Pump Time (min) 30

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS/cm Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or ≤0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1515	0.25	—	5.97	0.265	11.68	115	39.4	6.20	10.03
	1520		1.25	5.82	0.258	12.45	130	38.4	4.30	10.05
	1525		2.50	5.81	0.245	12.62	137	15.5	4.24	10.05
	1530		3.75	5.79	0.242	12.76	149	8.0	4.09	10.05
	1535		5.00	5.77	0.238	12.75	158	3.3	4.07	10.05
	1540		6.25	5.77	0.239	12.76	162	2.4	4.04	10.06
	1545	↓	7.50	5.77	0.239	12.74	164	1.8	4.02	10.06

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1545
Sample ID 152033-MW-01-0123	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear colorless odorless
Analyses TAL metals & Dissolved TAL metals	
Sampler MR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location D203	Project No: 1602515	Page 1 of 1
Well ID MW-02	Date 1/17/23	Time 1602
Well Site Description 7/11 parking lot		
Weather/Temp 44 overcast		
Field Technician NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 4.3-14.3
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 13.83	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 8.56
Product column height (ft) NA	Water column height (ft) 5.32
Product volume (Gallons) NA	Water volume (Gallons) 0.87

PURGE INFORMATION

Pump Type / ID Per.		Water Quality Meter Type / ID Horiba U-52 21183
Pump Intake Depth (ft) ~ 35ft from bottom		Flow-Thru Cell Volume (L) 1
Purge Start Time 1602		Appearance/Odor Clear colorless odorless
Purge End Time 1628		Appearance/Odor Clear colorless odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.02
Well Went Dry (Y/N) N	Stop Time N	Volume removed (L) N
Recovery Time N	Recovery Rate (mL/min) N	Restart Purge Time N
Total Volume Removed (L) 6.25		Total Pump Time (min) 25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	~~µS/cm~~ mS/cm Cond. (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1603	~~1603~~ 0.25	—	5.72	0.264	12.26	169	3.4	3.57	8.55
	1608		1.25	5.73	0.264	12.81	186	1.2	3.49	8.57
	1613		2.50	5.72	0.260	13.06	196	0.0	3.43	8.57
	1618		3.75	5.72	0.268	12.94	203	0.0	3.36	8.57
	1623		5.00	5.73	0.264	13.04	205	0.0	3.37	8.57
	1628	↓	6.25	5.73	0.268	13.03	208	0.0	3.35	8.57

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1628
Sample ID 1520.3-MW-2-0123	
QA/QC Collected / ID —	Sample Appearance/Odor Clear colorless odorless
Analyses TAL 8260 D.S. metals	
Sampler NR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	DZ US	Project No: 1602515	Page 1 of 1
Well ID	MW-3	Date 1/17/23	Time 1417
Well Site Description	far east end of OU-1 area		
Weather/Temp	44 overcast		
Field Technician	NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 5-15
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 17.36	Gallons per foot of depth 0.163
Depth to product (ft) N/A	Static water level (ft) 9.40
Product column height (ft) N/A	Water column height (ft) 7.96
Product volume (Gallons) N/A	Water volume (Gallons) 1.30

PURGE INFORMATION

Pump Type / ID Peri		Water Quality Meter Type / ID 211E3 Horiba U52
Pump Intake Depth (ft) ~3ft from bottom		Flow-Thru Cell Volume (L) 1
Purge Start Time 1417		Appearance/Odor light brown / cloudy
Purge End Time 1450		Appearance/Odor Clear color less odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.05
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.50		Total Pump Time (min) 30

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS/cm Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1420	0.25	—	6.05	0.182	11.51	100	20.7	1.09	9.42
	1425		1.25	6.03	0.186	10.32	110	80.5	1.73	9.45
	1430		2.50	5.84	0.191	10.18	134	52.9	0.73	9.45
	1435		3.75	5.84	0.193	10.16	135	35.5	0.66	9.45
	1440		5.00	5.86	0.193	10.18	132	28.6	0.62	9.45
	1445		6.25	5.86	0.195	10.21	131	27.3	0.60	9.45
	1450		7.50	5.87	0.196	10.25	128	27.2	0.59	9.45

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1450
Sample ID 152033-MW-3-0123	
QA/QC Collected / ID	Sample Appearance/Odor Clear colorless odorless
Analyses TAL + Dissolved metals	
Sampler NR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 1 of 1
Well ID MW-9	Date 1/17/23	Time 1514
Well Site Description Developmental area/lot		
Weather/Temp cloudy 44°F		
Field Technician H.Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 1.5 - 11.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.38	Gallons per foot of depth .35
Depth to product (ft) —	Static water level (ft) 10.23
Product column height (ft) —	Water column height (ft) 2.15
Product volume (Gallons) —	Water volume (Gallons) .75

PURGE INFORMATION

Pump Type / ID peri pump/36778		Water Quality Meter Type / ID Horiba u-52/20803
Pump Intake Depth (ft) 4.5		Flow-Thru Cell Volume (L) 1
Purge Start Time 1519		Appearance/Odor clear, odorless
Purge End Time 1606		Appearance/Odor clear, odorless
Average Purge Rate (mL/min) .20		Total Drawdown (ft) 0.0
Well Went Dry (Y/(N))	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 9.4		Total Pump Time (min) 47

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1520	.20	.20	5.51	.331	11.53	287	336	0.00	10.23
	1525		1.20	5.72	.329	11.32	290	233	0.10	10.25
	1530		2.20	5.61	.328	11.58	292	82.8	0.00	10.23
	1535		3.20	5.63	.321	11.69	287	40.0	0.00	10.23
	1540		4.20	5.66	.325	11.69	284	20.3	0.00	10.23
	1545		5.20	5.68	.318	11.71	284	14.5	0.00	10.23
	1550		6.20	5.68	.317	11.71	284	11.2	0.00	10.23
	1555		7.20	5.70	.317	11.76	284	11.4	0.00	10.23
	1600		8.20	5.72	.314	11.75	284	10.9	0.00	10.23
					SAMPLE					

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1605
Sample ID 152033-SM-MW-9-0123	
QA/QC Collected / ID N/A	Sample Appearance/Odor clear, odorless
Analyses Total TAL Metals + Dis. Metals + Mercury	
Sampler H.Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 1 of 1
Well ID MW-9B	Date 1/17/23	Time 1418
Well Site Description developmental area / lot		
Weather/Temp Cloudy 44° F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 34.5 - 44.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 45.80	Gallons per foot of depth 5.77
Depth to product (ft) —	Static water level (ft) 10.42
Product column height (ft) —	Water column height (ft) 35.38
Product volume (Gallons) —	Water volume (Gallons) 204.14

PURGE INFORMATION

Pump Type / ID Peri pump / 36778		Water Quality Meter Type / ID Horiba U-52 / 20803
Pump Intake Depth (ft) 39.5		Flow-Thru Cell Volume (L) 1
Purge Start Time 1420		Appearance/Odor clear, odorless
Purge End Time 1510		Appearance/Odor clear, odorless
Average Purge Rate (mL/min) .23		Total Drawdown (ft) .01
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 10.23		Total Pump Time (min) 50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1420	.23	0	5.32	.151	12.90	296	31.3	2.09	10.42
	1425		1.15	5.19	.125	13.13	280	108	0.85	10.44
	1430		2.30	5.18	.118	13.20	272	66e.6	0.51	10.44
	1435		3.45	5.22	.115	13.33	266	41.4	0.37	10.45
	1440		4.60	5.24	.115	13.39	265	25.1	0.34	10.45
	1445		5.75	5.26	.115	13.49	265	16.7	0.28	10.43
	1450		6.90	5.26	.115	13.58	265	11.4	0.24	10.43
	1455		8.05	5.25	.114	13.60	265	11.2	0.19	10.43
	1500		1.20	5.25	.114	13.66	265	11.1	0.17	10.43
						SAMPLE				

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1505
Sample ID 152033-SM-MW-9B-0123	
QA/QC Collected / ID MS/MSD	Sample Appearance/Odor odorless, clear
Analyses Total TAL Metals + Dis. TAL Metals + Mercury	
Sampler H. Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 1 of 1
Well ID MW-13A	Date 1/18/23	Time 1040
Well Site Description Parking lot of liquor store		
Weather/Temp Mostly sunny 49°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 5.72 - 10.72
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 10.90	Gallons per foot of depth 1.01
Depth to product (ft) —	Static water level (ft) 4.70
Product column height (ft) —	Water column height (ft) 6.20
Product volume (Gallons) —	Water volume (Gallons) 6.26

PURGE INFORMATION

Pump Type / ID Peri pump / 30778		Water Quality Meter Type / ID Horiba U-52 / 20803
Pump Intake Depth (ft) 7.72		Flow-Thru Cell Volume (L) 1
Purge Start Time 1044		Appearance/Odor clear, odorless
Purge End Time 1144		Appearance/Odor clear, odorless
Average Purge Rate (mL/min) .20		Total Drawdown (ft) .01
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 12		Total Pump Time (min) 60

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	1050	.20	1.20	5.55	.367	13.92	204	92.0	0.37	4.68
	1055		2.26	5.74	.370	13.86	176	82.6	0.46	4.69
	1100		3.20	5.80	.361	13.94	156	79.5	0.00	4.69
	1105		4.20	5.84	.359	13.95	153	77.3	0.00	4.69
	1110		5.20	5.87	.350	14.11	151	73.7	0.12	4.69
	1115		6.20	5.89	.350	14.20	154	51.1	0.18	4.69
	1120		7.20	5.91	.350	14.28	162	52.4	0.21	4.69
	1125		8.20	5.92	.347	14.34	169	55.4	0.41	4.69
	1130		9.20	5.91	.349	14.18	185	23.4	0.40	4.69
	1135		10.20	5.99	.343	14.20	180	20.1	0.45	4.69
	1140		11.20	5.97	.343	14.18	186	14.3	0.38	4.69

SAMPLE

COMMENTS

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1142
Sample ID 152033-SM-MW-13A-0123	
QA/QC Collected / ID N/A	Sample Appearance/Odor clear, odorless
Analyses Total TAL Metals, Dissolved TAL Metals + Mercury	
Sampler H. Young	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus	Project No: 1602515	Page 1 of 1
Well ID MW-13B	Date 1/17/23	Time 1043
Well Site Description parking lot		
Weather/Temp 50 partly cloudy		
Field Technician NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 34.25 – 44.25
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 42.40	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 4.55
Product column height (ft) NA	Water column height (ft) 37.85
Product volume (Gallons) NA	Water volume (Gallons) 6.17

PURGE INFORMATION

Pump Type / ID Pes.		Water Quality Meter Type / ID Horiba U-52 21183	
Pump Intake Depth (ft) 37.40		Flow-Thru Cell Volume (L) 1	
Purge Start Time 1043		Appearance/Odor clear colorless odorless	
Purge End Time 1117		Appearance/Odor —	
Average Purge Rate (mL/min) 0.25 L/min		Total Drawdown (ft) 0.03	
Well Went Dry (Y/N) N	Stop Time —		Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —		Restart Purge Time —
Total Volume Removed (L) 8.5		Total Pump Time (min) 34	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS/cm Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1045	0.25	—	6.21	0.166	13.98	147	12.1	6.22	4.55
|	1050	|	1.25	5.51	0.169	14.19	212	2.2	3.87	4.56
|	1055	|	2.50	5.42	0.171	14.24	227	1.5	3.66	4.56
|	1100	|	3.75	5.41	0.169	14.28	235	1.0	3.64	4.56
|	1105	|	5.00	5.40	0.168	14.28	240	0.8	3.66	4.57
|	1110	|	6.25	5.41	0.166	14.15	244	0.5	3.63	4.57
|	1115	|	7.50	5.41	0.165	14.02	247	0.5	3.63	4.58

COMMENTS —

SAMPLE COLLECTION

Sample Date 01/18/23	Sample Time 1117
Sample ID 152033-SM-MW-13B-0123	
QA/QC Collected / ID FD	Sample Appearance/Odor clear colorless odorless
Analyses Total + Diz. TAL Metals + Hg.	
Sampler LBL, NR	Signature LBL-NR

WELL PURGING AND SAMPLING RECORD

Site Name/Location	025	Project No:	Page 1 of 1
Well ID	MW-15A	Date 1/17/23	Time 0941
Well Site Description	Ace Hardware parking lot		
Weather/Temp	41 F overcast		
Field Technician	NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 18.8 - 28.8
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 28.95	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 7.31
Product column height (ft) NA	Water column height (ft) 21.64
Product volume (Gallons) NA	Water volume (Gallons) 3.53

PURGE INFORMATION

Pump Type / ID Per.		Water Quality Meter Type / ID Horiba U-52 21183
Pump Intake Depth (ft) ~ 23ft		Flow-Thru Cell Volume (L) 1
Purge Start Time 0941		Appearance/Odor Clear colorless odorless
Purge End Time 1022		Appearance/Odor Clear Colorless odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.00
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 8.75		Total Pump Time (min) 35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	0943	0.25	—	6.31	0.325	12.60	~~5.04~~ 216	18.4	4.55	7.31
0952	~~0948~~		1.25	5.75	0.328	13.60	~~5.75~~ 154	5.7	2.86	7.31
0957	~~0953~~ (MW)		2.50	5.75	0.327	13.78	156	4.6	2.45	7.31
1002	~~0958~~		3.75	5.76	0.328	13.97	166	3.6	2.34	7.31
1007	1005		5.00	5.77	0.330	14.07	173	3.2	2.36	7.31
	1018		6.25	5.78	6.333	14.14	181	2.2	2.22	7.31
	1017		7.50	5.79	0.333	14.23	185	2.0	2.23	7.31
	1022		8.75	5.79	0.333	14.30	187	1.6	2.24	7.31

COMMENTS Horiba died @ 0946, replaced batteries, continued to pump

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 1022
Sample ID 15023-MW-15A-0123	
QA/QC Collected / ID —	Sample Appearance/Odor Clear Colorless odorless
Analyses TAL metals & PFAS, TAL metals	
Sampler NR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1002515	Page 1 of 1
Well ID MW-15B	Date 1/18/23	Time 0935
Well Site Description Parking lot of Ace Hardware		
Weather/Temp Mostly sunny, 47°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 74.7-84.7
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 83.80	Gallons per foot of depth 12.48
Depth to product (ft) —	Static water level (ft) 7.25
Product column height (ft) —	Water column height (ft) 76.55
Product volume (Gallons) —	Water volume (Gallons) 955.34

PURGE INFORMATION

Pump Type / ID Peri pump / 36778		Water Quality Meter Type / ID Horiba U-52 / 20803
Pump Intake Depth (ft) 79.7		Flow-Thru Cell Volume (L) 1
Purge Start Time 0940		Appearance/Odor clear, odorless
Purge End Time 1028		Appearance/Odor clear, odorless
Average Purge Rate (mL/min) .25		Total Drawdown (ft) 0.0
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 12		Total Pump Time (min) 48

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	0945	.25	1.25	4.53	.301	13.73	334	6.7	0.52	7.33
	0950		2.50	4.28	.299	13.87	329	5.9	0.20	7.33
	0955		3.75	4.28	.299	13.92	326	5.1	0.00	7.33
	1000		5.0	4.31	.298	14.00	322	5.2	0.00	7.33
	1005		6.25	4.35	.298	14.06	320	5.1	0.00	7.33
	1010		7.50	4.39	.298	14.11	314	4.8	0.00	7.33
	1015		8.75	4.43	.298	14.12	309	4.8	0.00	7.33
	1020		10.0	4.48	.298	14.21	307	4.8	0.00	7.33
					SAMPLE					

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1024
Sample ID 152033-SM-MW-15B-0123	
QA/QC Collected / ID N/A	Sample Appearance/Odor clear, odorless
Analyses Total TAL Metals, Diss. TAL Metals + Mercury	
Sampler H. Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 1 of 2
Well ID MW-17	Date 1/18/23	Time 1357
Well Site Description Area opposite train tracks (North)		
Weather/Temp Breezy, 52°F (Mostly Sunny)		
Field Technician H.Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 6-16
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 16.49	Gallons per foot of depth 1.23
Depth to product (ft) —	Static water level (ft) 8.94
Product column height (ft) —	Water column height (ft) 7.55
Product volume (Gallons) —	Water volume (Gallons) 9.29

PURGE INFORMATION

Pump Type / ID Peri pump/050022		Water Quality Meter Type / ID Horiba U-52/21183
Pump Intake Depth (ft) 11		Flow-Thru Cell Volume (L) 1
Purge Start Time 1400		Appearance/Odor Clear, odorless
Purge End Time 1509		Appearance/Odor Clear, odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.0
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 17.25		Total Pump Time (min) 69

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	1405	0.25	1.25	6.70	0.441	13.26	46	193	5.24	8.98
↓	1410	↓	2.50	6.63	0.436	13.12	70	132	4.19	8.99
	1415		3.75	6.63	0.431	13.10	84	110	3.93	8.99
	1420		5.0	6.62	0.424	13.10	91	70.1	3.61	8.99
	1425		6.25	6.59	0.414	13.09	94	48.7	3.23	8.99
	1430		7.50	6.57	0.405	13.13	95	20.1	2.83	8.99
	1435		8.75	6.54	0.396	13.25	95	13.2	2.60	8.99
↓	1440	↓	10.0	6.53	0.388	13.43	96	9.5	2.35	8.99
	1445		11.25	6.61	0.378	13.60	96	9.9	2.19	8.99
	1450		12.50	6.49	0.369	13.67	95	4.9	2.09	8.99
	1455		13.75	6.48	0.365	13.69	94	4.2	1.97	8.99

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1505
Sample ID 152033-SM-MW-17-0123	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear, odorless
Analyses Total TAL Metals, Dissolved Metals + Mercury	
Sampler H.Young	Signature Haley Young

NEXT PAGE →

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 2 of 2
Well ID MW-17	Date 1/18/23	Time 1357
Well Site Description Area opposite train tracks		
Weather/Temp Mostly Sunny 52°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 6 - 16
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 16.49	Gallons per foot of depth 1.23
Depth to product (ft) —	Static water level (ft) 8.94
Product column height (ft) —	Water column height (ft) 7.55
Product volume (Gallons) —	Water volume (Gallons) 9.29

PURGE INFORMATION

Pump Type / ID Peri pump/050022		Water Quality Meter Type / ID Horiba U-52/21183
Pump Intake Depth (ft) 11		Flow-Thru Cell Volume (L) 1
Purge Start Time 1400		Appearance/Odor Clear, odorless
Purge End Time 1509		Appearance/Odor Clear, odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.0
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 17.25		Total Pump Time (min) 69

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	1500	0.25	15.0	6.46	.361	13.71	94	3.1	1.88	8.99
					SAMPLE					

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1505
Sample ID 152033-SM-MW-17-0123	
QA/QC Collected / ID	Sample Appearance/Odor Clear, odorless
Analyses TAL Metals, Diss. TAL Metals + Mercury	
Sampler H. Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 160 2515	Page 1 of 1
Well ID MW-18	Date 1/18/23	Time 1530
Well Site Description Adjacent to West Islip High School parking lot		
Weather/Temp Partly cloudy, 51°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 3.5 - 13.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 13.50	Gallons per foot of depth 1.20
Depth to product (ft) —	Static water level (ft) 6.12
Product column height (ft) —	Water column height (ft) 7.38
Product volume (Gallons) —	Water volume (Gallons) 8.856

PURGE INFORMATION

Pump Type / ID peri pump / 050022		Water Quality Meter Type / ID Horiba U-52 / 21183
Pump Intake Depth (ft) 8.5		Flow-Thru Cell Volume (L) 1
Purge Start Time 1535		Appearance/Odor Clear, odorless
Purge End Time 1612		Appearance/Odor Clear, odorless
Average Purge Rate (mL/min) .30		Total Drawdown (ft) .01
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 11.10		Total Pump Time (min) 37

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	1537	.30	0.6	6.94	.213	14.06	90	11.0	3.18	6.14
	1542		2.1	6.22	.243	13.85	139	4.1	1.49	6.15
	1547		3.6	6.18	.240	13.86	144	3.9	1.42	6.15
	1552		5.1	6.14	.234	13.90	151	2.9	1.31	6.15
	1557		6.6	6.14	.232	13.99	154	2.2	1.26	6.15
	1602		8.1	6.13	.232	14.03	157	1.5	1.23	6.15
	1607		9.6	6.13	.233	14.10	159	1.4	1.23	6.15
					SAMPLE					

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1610
Sample ID 152033-SM-MW-18-0123	
QA/QC Collected / ID NA	Sample Appearance/Odor Clear, odorless
Analyses TAL Metals + Dissolved TAL Metals / Mercury	
Sampler H. Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dixon's	Project No:	Page 1 of
Well ID MW-22A	Date 1/17/23	Time 0820
Well Site Description In grass, next to Clean One Laundry		
Weather/Temp 42 Overcast		
Field Technician NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 4.4 – 14.4
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 14.54	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 7.95
Product column height (ft) NA	Water column height (ft) 6.59
Product volume (Gallons) NA	Water volume (Gallons) 1.07

PURGE INFORMATION

Pump Type / ID Peri		Water Quality Meter Type / ID Horiba U-52 21183
Pump Intake Depth (ft) 11.54		Flow-Thru Cell Volume (L) 1
Purge Start Time 0820		Appearance/Odor Clear Colorless Odorless
Purge End Time 0915		Appearance/Odor
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.01
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 12.50		Total Pump Time (min) 50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS/cm Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	0825	0.25	—	5.16	0.564	14.44	17	37.5	2.05	7.91
	0830	↓	1.25	6.02	0.493	14.37	42	24.1	1.20	7.96
	0835		2.50	6.14	0.463	14.14	23	22.2	0.99	7.96
	0840		3.75	6.18	0.450	13.87	14	14.5	1.05	7.96
	0845		5.00	6.20	0.439	13.69	8	10.6	0.70	7.96
	0850		6.25	6.23	0.414	13.52	5	8.7	0.60	7.96
	0855		7.50	6.23	0.414	13.33	0	6.3	0.58	7.96
	0900		8.75	6.25	0.411	13.28	0	6.5	0.59	7.96
	0905		10.00	6.25	0.403	13.16	-1	3.7	0.58	7.96
	0910		11.25	6.25	0.400	13.09	-3	3.7	0.59	7.96
	0915		12.50	6.25	0.400	13.04	-4	3.8	0.54	7.96

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/17/23	Sample Time 0915
Sample ID 152033	
QA/QC Collected / ID —	Sample Appearance/Odor Clear Colorless odorless
Analyses TAL metals, Dis. metals	
Sampler NR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 1602515	Page 1 of 1
Well ID MW-22B	Date 1/18/23	Time 0820
Well Site Description grass area adjacent to laundromat		
Weather/Temp light rain 44°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 34.5 - 44.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 44.06	Gallons per foot of depth 8.55
Depth to product (ft) —	Static water level (ft) 7.80
Product column height (ft) —	Water column height (ft) 52.46
Product volume (Gallons) —	Water volume (Gallons) 448.53

PURGE INFORMATION

Pump Type / ID Peripump / 36778		Water Quality Meter Type / ID Horiba U-52 / 20803
Pump Intake Depth (ft) 39.5		Flow-Thru Cell Volume (L) 1
Purge Start Time 0822		Appearance/Odor Clear, odorless
Purge End Time 0917		Appearance/Odor Clear, odorless
Average Purge Rate (mL/min) .25		Total Drawdown (ft) .02
Well Went Dry (Y/(N))	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 13.75		Total Pump Time (min) 55

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	0827	.25	1.25	4.57	.311	13.17	326	43.4	1.24	7.80
	0832		2.50	5.00	.293	14.10	318	16.9	0.00	7.80
	0837		3.75	5.04	.286	14.32	313	14.1	0.36	7.82
	0842		5.0	5.04	.286	14.39	310	14.5	0.04	7.82
	0847		6.25	5.03	.286	14.42	307	12.7	0.00	7.82
	0852		7.50	5.01	.285	14.44	305	11.4	0.00	7.82
	0857		8.75	5.00	.284	14.52	303	9.9	0.00	7.82
	0902		10.0	5.00	.283	14.55	301	8.5	0.00	7.82
	0907		11.25	4.99	.283	14.58	299	8.3	0.00	7.82
	0912		12.50	4.99	.282	14.61	298	8.0	0.00	7.82
	—	—	—	—	— SAMPLE	—	—	—	—	—

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 0915
Sample ID 152033-SM-MW-22B-0123	
QA/QC Collected / ID	Sample Appearance/Odor Clear, odorless
Analyses Total TAL Metals, Diss. Metals + Mercury	
Sampler H. Young	Signature Haley Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location DZ03	Project No: 1602515	Page 1 of 1
Well ID MW-23A	Date 1/18/23	Time 1235
Well Site Description		
Weather/Temp 52F Sunny		
Field Technician NR		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 4.3 - 14.3
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 14.51	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 6.79
Product column height (ft) NA	Water column height (ft) 15.72
Product volume (Gallons) NA	Water volume (Gallons) 2.23

PURGE INFORMATION

Pump Type / ID Peri		Water Quality Meter Type / ID Horiba U-52 21183
Pump Intake Depth (ft) ~3ft from bottom		Flow-Thru Cell Volume (L)
Purge Start Time 1235		Appearance/Odor Clear Colorless odorless
Purge End Time 1328		Appearance/Odor Clear Colorless odorless
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft) 0.01
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 12.50		Total Pump Time (min) 50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	~~µS/cm~~ mS/cm Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/17/23	1238	0.25	-	6.02	0.830	13.45	77	51.6	0.88	6.80
	1243	|	1.25	6.04	0.826	13.64	60	33.1	0.56	6.80
	1248	|	2.50	6.05	0.782	13.74	52	26.8	0.53	6.80
	1253	|	3.75	6.04	0.771	13.78	48	20.3	0.54	6.80
	1258	|	5.00	6.03	0.754	13.80	47	16.8	0.61	6.80
	1303	|	6.25	6.03	0.750	13.73	46	11.2	0.57	6.80
	1308	|	7.50	6.03	0.733	13.80	46	8.3	0.58	6.80
	1313	|	8.75	6.02	0.720	13.77	45	7.5	0.57	6.80
	1318	|	10.00	6.01	0.722	13.76	44	5.3	0.60	6.80
	1323	|	11.25	6.02	0.710	13.80	45	5.2	0.60	6.80
	1328		12.50	6.01	0.716	13.75	43	5.2	0.60	6.80

COMMENTS —

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1328
Sample ID 152033-MW-23A-0123	
QA/QC Collected / ID —	Sample Appearance/Odor Clear Colorless colorless
Analyses TAL & Dis. metals	
Sampler NR	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Dzus Fasteners	Project No: 162515	Page 1 of 1
Well ID MW-23B	Date 1/18/23	Time 1230
Well Site Description Parking area / loading area behind liquor store		
Weather/Temp Mostly sunny, 52°F		
Field Technician H. Young		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) 34.5 - 44.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 44.30	Gallons per foot of depth 6.13
Depth to product (ft) —	Static water level (ft) 6.71
Product column height (ft) —	Water column height (ft) 37.59
Product volume (Gallons) —	Water volume (Gallons) 230.43

PURGE INFORMATION

Pump Type / ID Peri pump / 36778		Water Quality Meter Type / ID Horiba U-52 / 20803
Pump Intake Depth (ft) 39.5		Flow-Thru Cell Volume (L) 1
Purge Start Time 1237		Appearance/Odor clear, some silt, odorless
Purge End Time 1332		Appearance/Odor clear, odorless
Average Purge Rate (mL/min) .30		Total Drawdown (ft) 0.0
Well Went Dry (Y/N)	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 16.5		Total Pump Time (min) 55

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
1/18/23	1245	.30	2.10	5.88	.135	15.89	228	49.6	0.98	6.75
	1250		3.60	5.73	.133	15.71	219	43.1	0.82	6.75
	1255		5.10	5.71	.130	15.69	215	38.4	0.88	6.75
	1300		6.60	5.70	.131	15.67	215	36.1	0.82	6.75
	1305		8.10	5.69	.130	15.61	218	33.5	0.83	6.75
	1310		9.60	5.64	.128	15.60	223	31.4	.086	6.75
	1315		11.10	5.61	.127	15.61	230	25.5	.089	6.75
	1320		12.60	5.60	.127	15.60	230	23.9	.084	6.75
	1325		14.10	5.59	.126	15.60	233	23.2	0.87	6.75
						SAMPLE				

COMMENTS _____

SAMPLE COLLECTION

Sample Date 1/18/23	Sample Time 1327
Sample ID 152033-SM-MW-23B-0123	
QA/QC Collected / ID	Sample Appearance/Odor clear, odorless
Analyses Total TAL Metals. Diss. TAL Metals + Mercury	
Sampler H. Young	Signature Haley Young

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: DZUS Fasteners	West Islip, NY
Sampling Location Description: 152033-SM-SD-05-0123		Sample Location ID: SD-05
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 7 in		Sampling Date/Time
Width of Water Body: 8.5 ft		Start / Finish
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 1020 / TIME 1022

Surface Conditions: clear, floating OM
Weather: Cloudy 38°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment
1018	6.36	0.392	2.70	6.04	11.49	92	clear well graded sand. fine to coarse. light brown. some silt. gravel + organic matter

Total Quantity of Water Removed (gal): —
Samplers: L. Backman - Lowe
Sampling Date: 1/17/23

Sampling Time: 1020
Split Sample With: ~~Dup~~ MS/MSD
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: DZUS Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID:
152033-SM-SD-06-0123		SD-06
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 10 inches		Sampling Date/Time
Width of Water Body: 50.2 feet		Start / Finish
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 0941 / TIME 0943

Surface Conditions: clear, floating OM
Weather: Cloudy 34°F

Water Quality Parameters							
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)
	0935	6.14	.350	3.70	6.01	11.34	89

Description of Sediment: ~~Water~~ brown poorly graded silty sand, fine to medium, dark brown, gravel + organic matter

Total Quantity of Water Removed (gal):
Samplers: L. Brakeman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0941
Split Sample With: ~~Water~~ N/A
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID: SD-07
152033-SM-SD-07-0123		Sheet 1 of 1
Sample Method: Grab		
Depth of Water Body: 10"		Sampling Date/Time
Width of Water Body: ~~18'~~ 18' 6"		Start / Finish
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 0908 / TIME 0920

Surface Conditions: clear, floating om
Weather: Mostly Cloudy 33°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment
0904	6.03	0.349	6.40	5.75	9.34	115	~~clean~~ well graded, sand medium to coarse. trace silt. brownish-gray. gravel + organic matter

Total Quantity of Water Removed (gal):
Samplers: L. Backman - Lowe
Sampling Date: 1/17/23

Sampling Time: 0908
Split Sample With: ~~MS/MSD~~ N/A
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID:
152033-SM-SD-08-0123		SD-08
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 10"		Sampling Date/Time
Width of Water Body: 15' 1"		Start / Finish
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 0840 / TIME 0849

Surface Conditions: clear, floating OM
Weather: Mostly Cloudy 32°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment
0834	5.79	.362	6.4	5.04	8.85	141	~~well graded Sand, medium to coarse trace silt, gravel + organic matter~~ well graded Silty Sand. fine to coarse, dark brown. gravel + organic matter

Total Quantity of Water Removed (gal):
Samplers: L. Dackman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0840
Split Sample With: N/A
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: DZUS Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID:
152033-SM-SD-09-0123		SD-09
Sample Method:		Sheet 1 of 1
Depth of Water Body: 1'1"		Sampling Date/Time
Width of Water Body: 12' 10"		Start / Finish
Water Body Location		DATE: 1/17/23 / DATE: 1/17/23
		TIME 0815 / TIME 0825

Surface Conditions: clear, floating om 0817
Weather: Mostly cloudy 31°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment
0815	5.23	0.386	13.2	4.64	9.02	213	Well graded, fine to coarse, brown sand with some silt, organic matter + gravel

Water Quality Parameters

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0817
Split Sample With: N/A
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dws Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID: SD-16
152033-SM-SD-10-0123		Sheet 1 of 1
Sample Method: Grab		
Depth of Water Body: 6 in		Sampling Date/Time
Width of Water Body: 11' 5"		Start / Finish
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 1037 / TIME 1039

Surface Conditions: clear, floating OM
Weather: Cloudy 38°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment
1035	6.40	.398	1.30	5.36	12.52	68	[redacted] Well graded, medium to coarse, dark reddish brown, some gravel, trace silt

Total Quantity of Water Removed (gal):
Samplers: L. Dackman-Lowe
Sampling Date: 1/17/23

Sampling Time: 1037
Split Sample With: N/A
Sample Type: Grab

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: D2us Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID: SD-11
152033-SM-SD-11-0123		Sheet 1 of 1
Sample Method: Grab		Sampling Date/Time
Depth of Water Body: 5in		Start / Finish
Width of Water Body: 9' 2"		
Water Body Location	DATE 1/17/23	DATE 1/17/23
	TIME 1057	TIME 1059

Surface Conditions: clear, floating OM
Weather: Cloudy 28°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment ~~Water~~
1055	6.40	.417	1.30	5.06	12.76	67	~~Water~~ well graded sand, light brown, fine to coarse, some gravel, some organic matter

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 1057
Split Sample With: ~~Water~~ DUP
Sample Type: Grab

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SURFACE WATER SAMPLE LOG

Job. No.	152033
Client:	NYSDEC
Project:	DZUS Fasteners
Location	West Islip, NY
Sampling Location Description:	152033-SM-SW-05-0123
Sample Location ID:	SW-05
Sheet	1 of 1
Sample Method:	Grab
Depth of Water Body:	7in
Width of Water Body:	8.5 ft
Water Body Location	
Sampling Date/Time	Start: DATE 1/17/23, TIME 1020 — Finish: DATE 1/17/23, TIME

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Surface Conditions: clear, floating on
Weather: Cloudy, 37°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
1018	6.36	0.392	2.70	6.04	11.49	92	Clear

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 1020
Split Sample With: N/A
Sample Type: Grab

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SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Drus Fasteners	West Islip, NY
Sampling Location Description: 152033-SM-SW-06-0123		Sample Location ID: SW-06
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 10 inches		Sampling Date/Time
Width of Water Body: 50.2 feet		Start: DATE 1/17/23 TIME 0941 / Finish: DATE 1/17/23 TIME
Water Body Location		

Surface Conditions: clear floating om
Weather: Cloudy 34°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
0935	6.14	.350	3.70	6.01	11.34	89	clear

Water Quality Parameters

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0941
Split Sample With: DUP
Sample Type: Grab

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SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID:
152033-SDA-SW-07-0123		SW-07
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 10"		Sampling Date/Time
Width of Water Body: 18' 6"	Start	Finish
Water Body Location	DATE 1/17/23	DATE
	TIME 0908	TIME 0910

Surface Conditions: clear, floating Oil
Weather: Mostly Cloudy 33°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
0904	6.03	0.349	6.40	5.75	9.34	115	Clear

Total Quantity of Water Removed (gal):
Samplers: L. Bauman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0908
Split Sample With: N/A
Sample Type: Grab

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SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Deus Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID: SW-08
152033-SM-SW-08-0123		Sheet 1 of 1
Sample Method: Grab		Sampling Date/Time
Depth of Water Body: 10"		Start / Finish
Width of Water Body: 15' 1"		
Water Body Location		DATE 1/17/23 / DATE 1/17/23
		TIME 0540 / TIME 0545

Surface Conditions: clear, floating om
Weather: Mostly Cloudy 32°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
0834	5.79	.362	6.4	5.04	8.85	141	clear

Total Quantity of Water Removed (gal):
Samplers: L. Barkman - Lowe
Sampling Date: 1/17/23

Sampling Time: 0540
Split Sample With: ~~DUP~~ MS/MSD
Sample Type: Grab

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EA Science and Technology

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY
Sampling Location Description: 152033-SM-SW-09-0123		Sample Location ID: SW-09
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: 1' 1"		Sampling Date/Time
Width of Water Body: 12' 10"		Start: 1/17/23 DATE 0817 TIME
Water Body Location		Finish: 1/17/23 DATE 0821 TIME

Surface Conditions: clear, floating om
Weather: Mostly cloudy 31°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
0815	5.23	0.386	13.2	4.64	9.02	213	clear

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 0817
Split Sample With: N/A
Sample Type: Grab

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

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY
Sampling Location Description:		Sample Location ID: SW-10
152033-SM-SW-10-0123		Sheet 1 of 1
Sample Method: Grab		
Depth of Water Body: 6 in		Sampling Date/Time
Width of Water Body: WADMAT 11'5"		Start / Finish
Water Body Location		DATE 1/17/23 / DATE
		TIME 1037 / TIME

Surface Conditions: clear, floating om
Weather: CLOUDY 38°F

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
1035	6.40	.398	1.30	5.36	12.52	68	clear

Total Quantity of Water Removed (gal):
Samplers: L. Backman-Lowe
Sampling Date: 1/17/23

Sampling Time: 1037
Split Sample With: N/A
Sample Type: Grab

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

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dzus Fasteners	West Islip, NY

Sampling Location Description:	Sample Location ID:
152033 - SM - SW - 11 - 0123	SW-11
Sample Method: Grab	Sheet 1 of 1
Depth of Water Body: 5 in	Sampling Date/Time
Width of Water Body: 9' 2"	Start / Finish
Water Body Location	DATE 1/17/23 / DATE
	TIME 1057 / TIME

Surface Conditions: clear, floating om
Weather: cloudy 38°F

Water Quality Parameters							Description of Surface Water
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	
1055	6.40	.417	1.30	5.06	12.76	67	clear

Total Quantity of Water Removed (gal):
Samplers: L. Backman - Lowe
Sampling Date: 1/17/23

Sampling Time: 1057
Split Sample With: NIA
Sample Type: Grab

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, H. Young

Site Location: West Islip, NY

Weather Conditions

General Description	Cloudy	AM	--	PM
Temperature	36°F	AM	--	PM
Wind	7 mph N	AM	--	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 X	NA
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: slips, trips, and falls; dehydration; and traffic.

Summary of Work Performed	Arrived at site:	0840	Departed Site:	0900

(0840) EA [L. Backman-Lowe & H. Young] onsite. (0845) Photos taken of development area, attached in photo log. (0855) Photos taken of wetland area behind captree plaza, attached in photo log. (0900) EA personnel 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	NA	X
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	0.25
Haley Young	EA	Scientist	0.25

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Geotech Peristaltic Pump	Pine	2	No
Horiba U-52 Water Quality Meter	Pine	2	No
Heron WLM	Pine	2	No

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

Two drums were observed in northwest corner of OU1. EA was unable to access to confirm if they were labeled but no markings were visible from vantage point. Several soil piles remain on OU1 and pile on northern side of OU1 had torn inadequate cover.

Interaction with Public, Property Owners, Media, etc.

None.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

View of OU-1 development area from 7-eleven parking lot (looking east). Notice piles of fill still onsite. Left pile cover is torn and inadequate.

Trailer located in back corner of 7-eleven parking lot (looking north).

Unlabled drums located in north-west corner of OU-1
(looking north).

Wetland area behind Captree plaza, taken from parking lot (looking south).

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 03/07/2023**

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:		

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:			

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

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Contract No.
DEC PM – James Kruegler
Engineer PM – Hilary Williams
Engineer Insp. – K. Cassidy

Site Location: West Islip, NY

Weather Conditions

General Description	Sunny	AM	Cloudy	PM
Temperature	39°F	AM	57°F	PM
Wind	8 mph E	AM	10 mph SE	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 X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

N/A.

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1700

(0800) EA onsite. (0835) Impact Environmental onsite (Thomas J., Tyler Lasorsa) Impact Environmental have calibrated equipment prior to arriving to site. (0852) Gauge MW-1. (0930) Start purge at MW-1. Greg Mendez-Chicas (Project PM) arrives onsite, checks in with us. (0955) G. Mendez-Chicas offsite. Sample at MW-1. (1005) Impact to begin synoptic gauging of all other wells prior to continuing sampling. (1023) Gauge MW-2. (1032) Gauge MW-9B. (1041) Gauge MW-9. (1048) MW-3 is found destroyed – above-ground portion of PVC was snapped off by car that appears to have crashed into site. Decisions regarding MW-3 to be decided after consulting with PMs. (1100) Gauge MW-22A. (1103) Gauge MW-22B. (1120) Gauge MW-17 from TOC, new combination lock applied. (1135) Gauge MW-15B and MW-15A. (1140) EA purchased push broom at site-adjacent Ace Hardware to remove puddle from atop MW-13A and MW-13B. (1200) Gauge MW-23B and MW-23A. (1220) Gauge MW-13A. (1226) Gauge MW-13B. (1230) EA and Tyler L from Impact mobilize to West Islip High School property to gauge one MW. Begin purging at MW-13B. (1248) Gauge MW-18. (1335) Sample at MW-13B. (1355) Begin purging at MW-13A. (1430) Sample at MW-13A. (1453) Begin marking points along Willet's Creek using Trimble for collecting surface water and sediment samples during Day 2 of sampling event (3/28/2023). (1550) Gauge MW-3 (it was decided to sample MW-3 after purging 5 well volumes as no blockages were found in the well, or inconsistencies with DTW or total depth upon gauging). (1600) Begin purging at MW-3. (1705) Sample at MW-3. Impact transfers purged groundwater from buckets to 50-gallon drum at drum staging area near 7-11 parking lot. (1720) Everyone 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
Katie Cassidy	EA	Scientist	9
Thomas J	Impact Environmental	Field Technician	8.5
Tyler Lasorsa	Impact Environmental	Scientist	8.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes

Peristaltic Pump	Impact Environmental	1	Yes
Horiba U-52 Water Quality Meter	Pine	1	Yes
Solinist Oil/Water Probe	Pine	1	Yes
Trimble GPS	Impact Environmental	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	
Greg Mendez-Chicas	Impact Environmental (Project PM)	**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing

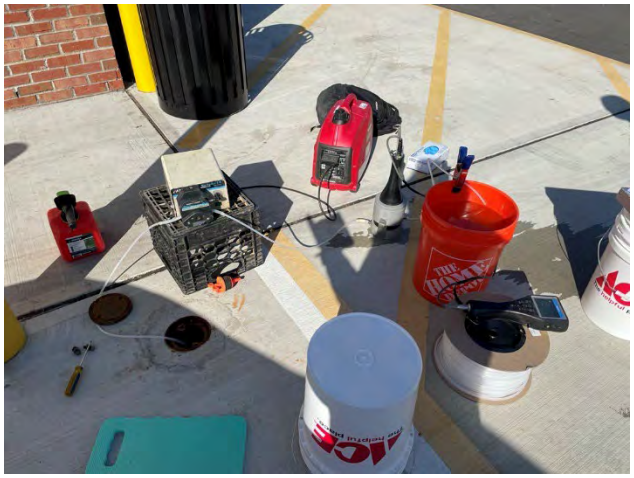
Project Schedule Comments
None.

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.

None.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)	
	
GW sampling set-up at MW-1.	Lock cut and replaced at upgradient well MW-17.

MW-3 broken well casing – apparent car collision with well.	Biological sheen found in Willet's Creek between SW/SD-2 and SW/SD-5.

Damaged MW-3 fitted with J-plug

Evidence of car collision at MW-3 – destroyed car remnants on ground, broken fence

Area of site with destroyed fence by MW-3

IDW drum staging area by corner of 7-11 lot

Comments

N/A
Site Inspector(s): Katie Cassidy | **Date: 03/27/2023**

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:		

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:			

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:

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:			

* BART – Best Available Retrofit Technology

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. – K. Cassidy

Site Location: West Islip, NY

Weather Conditions

General Description	Light rain	AM	Overcast	PM
Temperature	43°F	AM	49°F	PM
Wind	5 mph NW	AM	7 mph N	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 X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

N/A.

Summary of Work Performed	Arrived at site:	0700	Departed Site:	1920

(0700) EA onsite. (0725) Impact Environmental onsite (Thomas J., Tyler Lasorsa) (0730) Calibrate Horibas – Impact returning to office to get new calibration solution. (0826) Start purging at MW-15B; Horiba calibrated. (0830) Begin purging at MW-15A; Horiba calibrated. (0930) Sample at MW-15A. (0945) Sample at MW-15B. (1000) Start purging at MW-23A/B. (1105) Sample at MW-23A. (1125) Sample at MW-23B. (1140) Start purging at MW-22A. (1146) Start purging at MW-22B. (1220) Sample at MW-22A/B. (1238) EA and Tyler S. mob to school property to sample one well and Thomas J. back to Impact Env. Office to get IDW drum labels. (1301) Start purging at MW-18. (1340) Sample MW-18. (1400) Start purging at MW-2. (1440) Start purging at MW-17. (1500) Sample at MW-2. (1545) Sample at MW-17 + MS/MSD (field duplicate taken at MW-13A yesterday), start purging at MW-9B. (1618) Start purging at MW-9. (1700) Sample at MW-9B. (1705) Sample at MW-9. (1709) Mob to drum staging area to dump buckets of purge water into drums and label them. (1720) Mob to Willet's Creek to begin SW/SD sampling. (1736) Collect SW/SD-7 (will work downstream to upstream). Water is somewhat turbid from rain event this past evening/morning. (1744) Collect SW-4. (1750) Collect SD-4. (1800) Collect SW/SD-3 + field duplicate. (1825) Collect SW/SD-6 + MS/MSD. (1842) Collect SW/SD-1. (1858) Collect SW/SD-2. (1902) Collect SW/SD-5. (1910) Impact Environmental packing vehicle with sample coolers; coolers to be picked up by laboratory courier on Wednesday 3/29/23 in the AM. (1920) Everyone 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
Katie Cassidy	EA	Scientist	12.5
Thomas J	Impact Environmental	Field Technician	12
Tyler Lasorsa	Impact Environmental	Scientist	12

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	EA	2	Yes
Peristaltic Pump	Impact Environmental	2	Yes
Horiba U-52 Water Quality Meter	Pine	2	Yes
Solinist Oil/Water Probe	Pine	2	Yes
Trimble GPS	Impact Environmental	1	No

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	
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing

Project Schedule Comments

None.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

None.

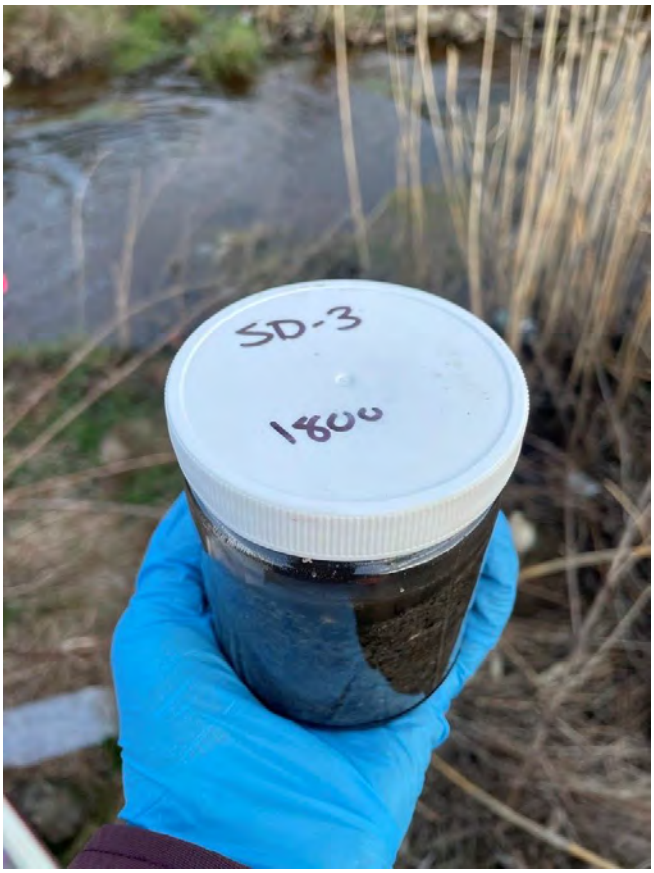
Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

GW sampling set-up at MW-18.

Labeled drums following completion of GW sampling.

Sterile spoon used to sample sediment



Filled sediment sample jar

Sampling at SW/SD-4.

Comments

N/A

Site Inspector(s): Katie Cassidy	**Date: 03/28/2023**

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:		

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:			

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:

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:			

* BART – Best Available Retrofit Technology

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. – Cody Badman

Site Location: West Islip, NY

Weather Conditions

General Description	Cloudy	AM	Cloudy	PM
Temperature	49	AM	57	PM
Wind	10 mph NNE	AM	10 mph NNE	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 X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

None.

Summary of Work Performed	Arrived at site:	0715	Departed Site:	1400

(0715) EA onsite, several workers already onsite. (0735) Pictures taken of CAMP set ups. (0745) Walked to MW-3 and took pictures. Well was found to have a cover over the top of the remaining section. (0830) Mobilized across street to take pictures of Willet's Creek. (0845) Mobilized back to 7-11 parking lot by OU1. (0930) Greg Mendez-Chicas (Project PM) and Tyler Lasorsa (Impact Environmental) arrive onsite, check in on progress. (1015) Greg Mendez-Chicas and Tyler Lasorsa offsite. (1130) Digging begins in order to see how deep the concrete cap is. (1215) First hole is finished and digging starts at another location. Appears that the membrane was pierced in the process of digging the hole. (1230) Second hole is finished and digging starts at another location. Appears that the membrane was pierced in the process of digging the hole. (1300) Digging finished at third location. Appears that the membrane was pierced in the process of digging the hole. (1400) EA 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 X	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No X	NA

Personnel and Equipment

Individual	Company	Trade	Total Hours
Cody Badman	EA	Scientist	6.75

Equipment Description	Contractor/Vendor	Quantity	Used
Ford Escape	EA	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	
Greg Mendez-Chicas	Impact Environmental (Project PM)	**Yes**	**No**
Tyler Lasorsa	Impact Environmental	**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

Site Photographs (Descriptions Below)

Drum staging area by 7-11 lot

MW-3 with covering on remaining portion of well.

Pile covered with tarp

Pile covered with tarp

Site Photographs (Descriptions Below)

Pile covered with tarp

CAMP set up #1

CAMP set up #2

CAMP set up #3

Comments

Site Photographs (Descriptions Below)

Willet's Creek Upstream

Willet's Creek Downstream

First hole dug, evidence that membrane was pierced

Second hole dug, evidence that membrane was pierced.

Site Photographs (Descriptions Below)

Third hole dug, evidence that membrane was pierced.

Picture of rebar being placed, facing west towards 7-11

Picture of rebar being placed, from SW corner.

Southwest corner of 7-11 lot, facing west

N/A

Site Photographs (Descriptions Below)

Southern edge of 7-11, facing East

Frontal view of 7-11 building

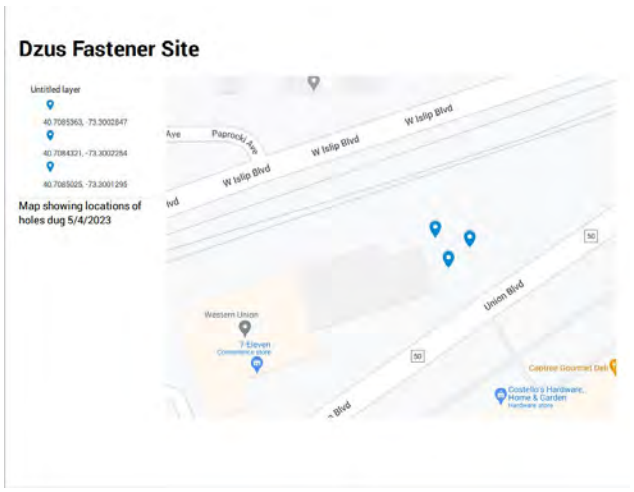


Figure showing locations of the three holes that were dug.

Site Photographs (Descriptions Below)

Site Inspector(s): Cody Badman	**Date: 05/04/2023**

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:		

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:			

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:

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:			

* BART – Best Available Retrofit Technology

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. – H. Young

Site Location: West Islip, NY

Weather Conditions

General Description	Cloudy	AM	Cloudy	PM
Temperature	75°F	AM	79°F	PM
Wind	8 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: general field work safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	1100	Departed Site:	1805

(1100) EA (H. Young, C. Badman, and J. Gill) onsite. (1105) Tailgate safety meeting held. (1110) Calibrate sampling equipment. (1130) J. Gill offsite to Pine for water level meters and H. Young and C. Badman mobilize to the surface water and sediment locations. (1200) Sample SD-09 with duplicate. (1220) Sample SD-08. (1230) J. Gill returned to site. (1255) Sample SW-01 with duplicate and MS/MSD. (1318) Sample SD-01 with MS/MSD. (1335) J. Gill offsite to Pine to pick up more tubing. (1340) H. Young, C. Badman, L. Backman-Lowe, and K. Cassidy mobilize to monitoring wells for well integrity checks. Purged all water sitting on top of MW-13A location. (1450) J. Gill returns to site with tubing. Setup at MW-22A and MW-22B. (1456) L. Backman-Lowe and K. Cassidy gauge all monitoring wells. (1505) Begin purging MW-22A. (1511) Begin purging MW-22B. (1551) Sample MW-22B. (1555) Sample MW-22A. (1610) Mobilize to MW-1 and MW-3 for purging and sampling. (1640) Begin purging MW-1. (1648) Begin purging MW-3. (1715) Sample MW-1. (1750) Sample MW-3. (1805) EA 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	8.5
K. Cassidy	EA	Scientist	8.5
H. Young	EA	Scientist	7.0
C. Badman	EA	Scientist	7.0
J. Gill	EA	Intern	7.0

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150 Supercab	EA	1	Yes
Ford F-150 Crewcab	EA	1	Yes
Peristaltic Pump	Pine	2	Yes
Horiba	Pine	2	Yes
Water Level Meter	Pine	2	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 sampling remaining wells tomorrow (6/27).

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.
.

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): Haley Young	**Date: 06/26/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

OU1, looking east. CAMP box set up on far west boundary of development area.

Dzus Fastener Site, West Islip, New York

Non-hazardous 55-gallon drum located in north-west corner of OU1. From previous developer sampling event (EA purges to ground surface as done in the past).

Dzus Fastener Site, West Islip, New York

MW-9B monitoring well, MW-9 could not be found in the AM.

Dzus Fastener Site, West Islip, New York

Wetland area behind Captree Plaza.

Dzus Fastener Site, West Islip, New York

Ponded area of Willetts Creek, behind Captree Plaza.

Dzus Fastener Site, West Islip, New York

Outfall behind Captree plaza, upgradient of SW/SD-01 location.

Dzus Fastener Site, West Islip, New York

Filter sock found just outside of outfall, located behind Captree plaza, upgradient of SW/SD-01 location.

Dzus Fastener Site, West Islip, New York

EA personnel collecting surface water samples at SW-01 location.

Dzus Fastener Site, West Islip, New York

EA personnel cleaning trash out of Willetts Creek.

Dzus Fastener Site, West Islip, New York

Foundation at OU1

Dzus Fastener Site, West Islip, New York

MW-3, still damaged from car wreck.

Dzus Fastener Site, West Islip, New York

Exposed geomembrane, located on eastern end of OU1.

Exposed geomembrane, located in the center of OU1.

Dzus Fastener Site, West Islip, New York

Small pit (~4'x4'x2.5') dug into the topsoil, note the exposed geomembrane. Along north border of OU1, looking north.

Dzus Fastener Site, West Islip, New York

Purge set-up at MW-3, groundwater purged into 5-gallon granular activated carbon bucket (white) and then discharged to ground surface.

MW-9, located at the end of the day under ~6" of topsoil.

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. – H. Young

Site Location: West Islip, NY

Weather Conditions

General Description	Cloudy	AM	Cloudy	PM
Temperature	69°F	AM	79°F	PM
Wind	8 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: general field work safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0710	Departed Site:	1745

(0710) EA (H. Young) onsite, purge water standing over MW-15A and MW-15B. (0720) C. Badman, and J. Gill onsite, begin calibrating equipment. (0752) Begin purging MW-15A. (0755) Begin purging MW-15B. (0822) Sample MW-15A. (0830) Sample MW-15B. (0845) C. Badman and J. Gill mobilize to MW-2. H. Young mobilizes to MW-13B. Landscaping company cutting trees near MW-13A and MW-13B. Will remobilize later once area is clear.(0858) Begin purging MW-2. (0928) Sample MW-2. (0930) H. Young mobilize to MW-17. (1005) Begin purging MW-17. (1028) Begin purging MW-23B. (1050) Sample MW-17 with PFAS duplicate. (1125) H. Young mobilizes to MW-23A and MW-23B. (1133) Sample MW-23B. (1140) Begin purging standing water over MW-13A and MW-13B. (1157) Begin purging MW-23A. (1232) Sample MW-23A. (1234) Begin purging MW-13B. (1305) Begin purging MW-13A. (1324) Sample MW-13B. (1355) Sample MW-13A with metals duplicate. (1420) Mobilize to MW-18. (1436) Begin purging MW-18. (1506) Sample MW-18 with metals and PFAS MS/MSD. (1545) Mobilize to MW-9 and MW-9B. (1611) Begin purging MW-9B. (1613) Begin purging MW-9. (1641) Sample MW-9b. (1643) Sample MW-9. (1715) Sample Field Blank. (1720) Sample Equipment Blank. (1735) C. Badman and J. Gill offsite. (1740) H. Young mobilize to high school to check status of gate and ensure it is locked. (1745) EA 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
H. Young	EA	Scientist	10.5
C. Badman	EA	Scientist	10.5
J. Gill	EA	Intern	10.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150 Supercab	EA	1	Yes
Ford F-150 Crewcab	EA	1	Yes
Peristaltic Pump	Pine	2	Yes
Horiba	Pine	2	Yes

Water Level Meter	Pine	2	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.
.

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): Haley Young	**Date: 06/27/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

06/27/2023

Dzus Fastener Photographic Log

Sampling setup at MW-23B

Sampling setup at MW-2

Site Name:	Dzus Fasteners
Date/Time:	6/26/23 - 6/27/23
Inspector(s):	H. Young, C. Badman
Weather Conditions:	75°F, Cloudy

MONITORING POINT GAUGING LOG

	Well ID	Intalled Depth (ft)	Screen Interval (ft)	DTW (ft bgs)	DTB (ft bgs)	PID (ppm)	Well Condition / Notes
(6/26)	MW-1	15.3	5.3-15.3	10.18	14.93		Surface runoff around casing
(6/26)	MW-2	14	4.3-14.3	9.69	13.61		surface runoff around casing
(6/26)	MW-3	15	5-15	7.39	14.90		OK
(6/27)	MW-9	11.5	1.5-11.5	9.83	12.41		OK
(6/27)	MW-9B	44.5	34.5-44.5	10.54	45.20		OK
(6/27)	MW-13A	10.72	5.72-10.72	4.85	10.92		surface water around + inside casing
(6/27)	MW-13B	44.25	34.25-44.25	4.85	44.25		Surface water around + inside casing
(6/26)	MW-15A	28.8	18.8-28.8	28.69	7.43		OK
(6/26)	MW-15B	84.7	74.7-84.7	83.45	7.38		OK
(6/27)	MW-17	16	6-16	9.05	16.14		OK
(6/27)	MW-18	13.5	3.5-13.5	6.31	13.34		OK
(6/26)	MW-22A	14.4	4.4-14.4	8.12	14.61		OK
(6/26)	MW-22B	44.5	34.5-44.5	8.89	44.30		OK
(6/26)	MW-23A	14.3	4.3-14.3	6.88	14.29		OK
(6/26)	MW-23B	44.5	34.5-44.5	6.81	43.69		OK

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

CALIBRATION
DATE: 06/26/2023
TIME: 1115
METER ID: 26413

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.12	3.97

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.59	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE

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

CALIBRATION
DATE: 06/26/2023
TIME: 1109
METER ID: 44181

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.97	3.99

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.18	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	67.1	0.0

COMMENTS

SIGNATURE

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

CALIBRATION
DATE: 06/27/2023
TIME: 0735
METER ID: 26413

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.04	4.01

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.5	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	40.0	40.0

COMMENTS

Could not get turbidity below 40.0

SIGNATURE

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

CALIBRATION	
DATE:	06/27/2023
TIME:	0739
METER ID:	44181

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.89	4.00

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.92	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	85.2	0.0

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM

Site Name: Former Dzus Fastener

INSTRUMENT: MiniRAE 3000	INSTRUMENT ID No: 045237
OPERATOR: CDB	WEATHER: Sunny 72°F
SPAN GAS TYPE: 100 ppm Isobutylene	DATE: 06/26/2023
CALIBRATION NOTES:	
Zero: 0.0 ppm	
Span: 100.0 ppm	
COMMENTS:	
SIGNATURE: [signature]	DATE: 06/26/2023

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-22B	**Personnel:** H.Young	**Client:** Dzus Fasteners Site NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** Good	**Weather:** 77°F, Sunny
Sounding Method: Solonist WLM	**Gauge Date:** 06/26/23 **Gauge Time:** 1500	**Measurement Ref:** TOIC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 06/26/23	**Purge Time:** 1511
Purge Method: Low Flow	**Field Technician:** H. Young

Well Volume

A. Well Depth (ft): 44.30	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 8.89	**E. Well Volume (gal) (C*D):** 5.77	**Pump Type:** peri pump
C. Liquid Depth (ft) (A-B): 35.41	**F. Three Well Volumes (gal) (E*3):** 17.31	**Pump Intake Depth:** mid screen

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)
1511	6.58	0.198	111	0.00	20.55	252	8.89	0.25	—
1516	6.42	0.192	89.4	0.00	16.85	241	7.94	0.25	1.25
1521	6.30	0.191	62.4	0.00	15.74	241	7.94	0.25	2.50
1526	6.27	0.191	25.4	0.00	15.53	237	7.94	0.25	3.75
1531	6.24	0.192	11.3	0.00	15.24	234	7.95	0.25	5.00
1536	6.11	0.191	7.0	0.00	15.12	238	7.95	0.25	6.25
1541	6.12	0.191	4.8	0.00	15.01	233	7.94	0.25	7.50
1546	6.10	0.192	3.2	0.00	14.97	231	7.94	0.25	8.75
1551	6.09	0.192	4.4	0.00	14.82	232	7.94	0.25	10.00
—	—	—	— SAMPLE @		1551	—	—	—	—

Total Quantity of Water Removed (gal):	2.64	**Sampling Time:**	1551
Samplers:	HY	**Split Sample With:**	N/A
Sampling Date:	06/26/23	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Deus Fastener

Well I.D.: MW-22A	Personnel: CB, HY	Client: NYSDEC (152033)
Location: West Islip, NY	Well Condition: OK	Weather: Sunny 77°F
Sounding Method: Heron w/M	Gauge Date: 06/26/2023	Measurement Ref: TOFC
	Gauge Time: 1500	
Stick Up/Down (ft): Flush	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 06/26/2023	Purge Time: 1505
Purge Method: Low Flow Peri Pump	Field Technician: CB, HY

Well Volume

A. Well Depth (ft): 14.61	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: N/A
B. Depth to Water (ft): 8.12	E. Well Volume (gal) (C*D): 1.06	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 10.49	F. Three Well Volumes (gal) (E*3): 3.18	Pump Intake Depth: Mid-Screen

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)
1505	7.89	0.170	1000+	0.21	29.68	22	8.12	0.25	—
1510	7.17	0.170	725	0.00	26.58	12	8.12	0.25	0.75
1515	7.12	0.181	678	0.00	23.27	20	8.12	0.25	1.50
1520	7.05	0.180	514	0.00	23.67	27	8.12	0.25	2.25
1525	7.01	0.183	458	0.00	23.05	19	8.12	0.25	3.00
1530	6.99	0.184	401	0.00	22.25	18	8.12	0.25	3.75
1535	6.98	0.184	312	0.00	22.17	17	8.12	0.25	4.50
1540	6.97	0.190	37.6	0.00	16.77	28	8.12	0.25	5.25
1545	6.97	0.179	12.8	0.00	16.40	18	8.12	0.25	6.00
1550	6.98	0.178	12.2	0.00	16.22	14	8.12	0.25	6.75
1555	6.98	0.177	12.3	0.00	16.24	10	8.12	0.25	7.50
—	—	—	—	SAMPLE	@ 1555	—	—	—	—

Total Quantity of Water Removed (gal):	1.98	Sampling Time:	1555
Samplers:	CB, HY	Split Sample With:	N/A
Sampling Date:	06/26/2023	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: Heron flushed at 1536

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1	**Personnel:** H. Young	**Client:** DZUS Fasteners Site NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** Good	**Weather:** 76°F, Mostly Cloudy
Sounding Method: Solonist WLM	**Gauge Date:** 6/26/23	**Measurement Ref:** TOIC
	Gauge Time: 1510	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0	**Well Diameter (in):** 2

Purge Date: 6/26/23	**Purge Time:** 1640
Purge Method: low flow	**Field Technician:** H Young

Well Volume

A. Well Depth (ft): 14.93	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 10.21	**E. Well Volume (gal) (C*D):** 0.769	**Pump Type:** Peri Pump
C. Liquid Depth (ft) (A-B): 4.72	**F. Three Well Volumes (gal) (E*3):** 2.31	**Pump Intake Depth:** mid screen

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)
1640	6.69	0.289	75.3	6.95	19.30	164	10.21	0.25	—
1645	6.42	0.266	12.1	6.66	18.04	205	10.21	0.25	1.25
1650	6.40	0.246	5.3	6.32	18.06	217	10.21	0.25	2.50
1655	6.43	0.228	2.8	6.04	18.01	222	10.21	0.25	3.75
1700	6.44	0.227	0.9	5.89	17.98	225	10.17	0.25	5.00
1705	6.49	0.228	0.2	5.66	17.95	227	10.17	0.25	6.25
1710	6.46	0.228	0.4	5.68	17.89	228	10.17	0.25	7.50
1715	6.48	0.229	0.0	5.70	17.88	230	10.17	0.25	8.75
					SAMPLE @ 1715				

Total Quantity of Water Removed (gal):	2.31	**Sampling Time:**	1715
Samplers:	HY	**Split Sample With:**	N/A
Sampling Date:	6/26/23	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Dues Fastener

Well I.D.: MW-3	Personnel: CB, HY	Client: NYSDEC (152055)
Location: West Islip, NY	Well Condition: OK	Weather: Cloudy 75°F
Sounding Method: Heron Dipper	Gauge Date: 06/26/2023	Measurement Ref: TOC
Stick Up/Down (ft): Stick-up 2 ft.	Gauge Time:	Well Diameter (in): 2
	PID Headspace Reading: 0.0 ppm	

Purge Date: 06/26/2023	Purge Time: 1648
Purge Method: Low flow peri pump	Field Technician: CB, HY

Well Volume

A. Well Depth (ft): 14.90	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 7.39	E. Well Volume (gal) (C*D): 1.22	Pump Type: Peristaltic pump
C. Liquid Depth (ft) (A-B): 7.51	F. Three Well Volumes (gal) (E*3): 3.66	Pump Intake Depth: Mid-Screen

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)
1648	5.91	0.209	0.0+	7.78	16.55	60	7.42	0.25	—
1653	5.49	0.187	67.7	5.80	15.59	109	7.42	0.25	0.25
1658	5.62	0.180	68.3	5.40	15.44	129	7.42	0.25	2.50
1703	5.62	0.179	47.6	4.87	15.46	141	7.42	0.25	3.75
1708	5.64	0.178	38.1	4.29	15.47	148	7.42	0.25	5.00
1713	5.65	0.178	18.5	3.80	15.49	144	7.42	0.25	6.25
1718	5.73	0.178	13.8	3.24	15.47	139	7.42	0.25	7.50
1723	5.68	0.178	11.4	2.70	15.89	133	7.42	0.25	8.75
1728	5.68	0.177	9.3	2.28	15.41	125	7.42	0.25	10.00
1733	5.66	0.177	9.0	2.21	15.59	122	7.42	0.25	11.25
1738	5.68	0.177	9.2	2.20	15.48	120	7.42	0.25	12.50
—	—	—	—	— SAMPLE @ 1738 —	—	—	—	—	—

Total Quantity of Water Removed (gal):	3.13	Sampling Time:	1738
Samplers:	CB, HY	Split Sample With:	N/A
Sampling Date:	06/26/2023	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Dzus Fastener

Well I.D.: MW-15A	Personnel: CB, HY, JG	Client: NYSDEC (152033)
Location: West Islip, NY	Well Condition: OIC	Weather: Cloudy 69°F
Sounding Method: Heron WLM	Gauge Date: 06/26/2023 Gauge Time:	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 06/27/2023	Purge Time: 0752
Purge Method: Low Flow Peri Pump	Field Technician: CB, HY, JG

Well Volume

A. Well Depth (ft): 7.43	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 28.69	E. Well Volume (gal) (C*D): 3.47	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 21.26	F. Three Well Volumes (gal) (E*3): 10.41	Pump Intake Depth: Mid-Screen

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)
0752	4.83	0.331	0	0.85	16.89	347	7.42	0.25	—
0757	5.12	0.264	0	0	16.49	336	7.42	0.25	1.25
0802	5.25	0.256	0	0	16.26	333	7.42	0.25	2.50
0807	5.35	0.254	0	0	16.16	332	7.42	0.25	3.75
0812	5.39	0.253	0	0	16.13	333	7.42	0.25	5.00
0817	5.44	0.252	0	0	16.07	333	7.42	0.25	6.25
0822	5.46	0.252	0	0	16	334	7.42	0.25	7.50
			SAMPLE @ 0822						

Total Quantity of Water Removed (gal):	1.98	Sampling Time:	0822
Samplers:	CB, HY, JG	Split Sample With:	N/A
Sampling Date:	06/27/2023	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-15B	**Personnel:** H.Young	**Client:** Dzus Fasteners NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** OK	**Weather:** 69°F, Cloudy
Sounding Method: Heron Skinny Dipper	**Gauge Date:** 06/26/23 **Gauge Time:** 1510	**Measurement Ref:** TOIC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 06/27/23	**Purge Time:** 0755
Purge Method: Low Flow	**Field Technician:** H.Young

Well Volume

A. Well Depth (ft): 83.45	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 7.38	**E. Well Volume (gal) (C*D):** 12.40	**Pump Type:** peri pump
C. Liquid Depth (ft) (A-B): 76.07	**F. Three Well Volumes (gal) (E*3):** 37.20	**Pump Intake Depth:** mid-screen

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)
0755	6.20	0.125	6636	10.30	16.85	168	7.40	0.25	—
0800	5.80	0.080	21.9	10.86	14.97	187	7.40	0.25	1.25
0805	5.74	0.075	12.2	10.37	14.72	198	7.40	0.25	2.50
0810	5.73	0.078	0.0	9.85	14.57	208	7.40	0.25	3.75
0815	5.76	0.078	0.0	9.66	14.55	210	7.40	0.25	5.00
0820	5.74	0.078	0.2	9.22	14.44	216	7.40	0.25	6.25
0825	5.73	0.079	0.0	9.20	14.44	219	7.40	0.25	7.50
0830	5.75	0.078	0.0	9.20	14.43	220	7.40	0.25	8.75
—	—	—	—	SAMPLE @ 0830	—	—	—	—	—

Total Quantity of Water Removed (gal):	2.31	**Sampling Time:**	0830
Samplers:	HY	**Split Sample With:**	~~DUP~~ N/A
Sampling Date:	6/27/23	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Dews Fastener

Well I.D.: MW-2	Personnel: CB, JG	Client: NYSDEC (152033)
Location: West Islip, NY	Well Condition: OK	Weather: Cloudy, 70°F
Sounding Method: Heron WLM	Gauge Date: 06/26/2023 Gauge Time: —	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	PID Headspace Reading: 0.0	Well Diameter (in): 2

Purge Date: 06/27/2023	Purge Time: 0858
Purge Method: Low flow Peri pump	Field Technician: CB, JG

Well Volume

A. Well Depth (ft): 13.01	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 9.09	E. Well Volume (gal) (C*D): 0.639	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 3.92	F. Three Well Volumes (gal) (E*3): 1.91	Pump Intake Depth: Mid-screen

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)
0858	6.31	0.295	0.0	0.00	17.91	325	8.70	0.25	—
0903	6.36	0.268	0.0	0.00	18.39	306	8.70	0.25	1.75
0908	6.39	0.267	0.0	0.06	18.43	297	8.70	0.25	2.50
0913	6.42	0.266	0.0	0.00	18.51	292	8.70	0.25	3.75
0918	6.45	0.267	0.0	0.00	18.48	289	8.70	0.25	5.00
0923	6.47	0.269	0.0	0.00	18.49	288	8.70	0.25	6.25
0928	6.50	0.273	0.0	0.00	18.43	287	8.70	0.25	7.50

Total Quantity of Water Removed (gal):	1.98	Sampling Time:	0928
Samplers:	CB, JG	Split Sample With:	N/A
Sampling Date:	06/27/2023	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.:	Personnel:	Client:
MW-17	H. Young	Dzus Fasteners NYSDEC (152033)
Location:	**Well Condition:**	**Weather:**
West Islip, NY	OK	71°F, Cloudy
Sounding Method:	**Gauge Date:** 6/27/23	**Measurement Ref:**
Heron Skinny Dipper	**Gauge Time:**	TOIC
Stick Up/Down (ft):	**PID Headspace Reading:**	**Well Diameter (in):**
Stick up (3.5 ft)	0.0	2

Purge Date:	Purge Time:
6/27/23	1005
Purge Method:	**Field Technician:**
Low Flow	H. Young

Well Volume

A. Well Depth (ft):	D. Well Volume (gal/ft):	Depth/Height of Top of PVC:
16.14	0.163	~3.5 ft
B. Depth to Water (ft):	**E. Well Volume (gal) (C*D):**	**Pump Type:**
9.05	1.16	peri pump
C. Liquid Depth (ft) (A-B):	**F. Three Well Volumes (gal) (E*3):**	**Pump Intake Depth:**
7.09	3.48	mid-Screen

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	6.17	0.069	0.0	0.09	16.31	116	—	0.25	—
1010	5.95	0.067	0.0	0.84	17.49	120	—	0.25	1.25
1015	5.88	0.062	0.0	0.00	17.10	120	—	0.25	2.50
1020	5.82	0.060	0.0	0.00	16.84	117	—	0.25	3.75
1025	5.61	0.062	0.0	0.22	15.69	138	—	0.25	5.00
1030	5.66	0.063	0.0	0.00	14.94	123	—	0.25	6.25
1035	5.65	0.064	0.0	0.00	14.84	114	—	0.25	7.50
1040	5.72	0.065	0.0	0.00	14.74	105	—	0.25	8.75
1045	5.71	0.065	0.0	0.00	14.74	103	—	0.25	10.00
1050	5.70	0.066	0.0	0.00	14.72	100	—	0.25	11.25
—	—	—	—	SAMPLE	@ 1050	—	—	—	—

Total Quantity of Water Removed (gal):	2.97	Sampling Time:	
Samplers:	HY	Split Sample With:	DUP (PFAS)
Sampling Date:	6/27/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: Water turbid @ start - pump disconnected from Horiba til clear.
* Gauged after sampling (PFAS)

Volume of Water In Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Drug Fastener

Well I.D.: MW-23B	Personnel: CB, JG	Client: NYSDEC (152033)
Location: West Islip, NY	Well Condition: OK	Weather: Cloudy, 72°F
Sounding Method: Heron WLM	Gauge Date: 06/26/2023	Measurement Ref: TOIC
	Gauge Time:	
Stick Up/Down (ft): Flush	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 06/27/2023	Purge Time: 1028
Purge Method: Low Flow Peri Pump	Field Technician: CB, JG

Well Volume

A. Well Depth (ft): 43.69	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 6.81	E. Well Volume (gal) (C*D): 6.01	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 36.88	F. Three Well Volumes (gal) (E*3): 18.03	Pump Intake Depth: Mid - Screen

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	6.99	0.088	0+	1.17	18.52	67	6.85	0.25	—
1033	7.01	0.086	277	0.00	18.14	90	6.85	0.25	1.25
1038	6.91	0.088	129	0.00	17.53	112	6.85	0.25	2.50
1043	6.82	0.091	57.2	0.00	17.35	130	6.85	0.25	3.75
1048	6.70	0.095	55.1	0.00	17.08	140	6.85	0.25	5.00
1053	6.64	0.098	56.3	0.42	16.92	156	6.85	0.25	6.25
1058	6.56	0.098	18.7	0.05	16.88	170	6.85	0.25	7.50
1103	6.45	0.099	0.0	0.21	16.79	181	6.85	0.25	8.75
1108	6.39	0.099	0.0	0.35	16.73	202	6.85	0.25	10.00
1113	6.34	0.099	0.0	0.39	16.77	212	6.85	0.25	11.25
1118	6.30	0.100	0.0	0.49	16.77	222	6.85	0.25	12.50
1123	6.34	0.100	0.0	0.49	16.85	176	6.85	0.25	13.75
1128	6.32	0.100	0.0	0.47	16.89	180	6.85	0.25	15.00
1133	6.33	0.100	0.0	0.47	16.87	179	6.85	0.25	16.25

Total Quantity of Water Removed (gal): 4.29		Sampling Time: 1133	
Samplers: CB, JG		Split Sample With: N/A	
Sampling Date: 06/27/2023		Sample Type: Grab	

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM — D&B Fastener

Well I.D.: MW-23A	Personnel: CB, JG	Client: NYSDEC (152033)
Location: West Islip, NY	Well Condition: OK	Weather: Cloudy, 72°F
Sounding Method: Heron WLM	Gauge Date: 06/26/2023	Measurement Ref: TOIC
	Gauge Time:	
Stick Up/Down (ft): Flush	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 06/27/2023	Purge Time: 1157
Purge Method: Low Flow Peri Pump	Field Technician: CB, JG

Well Volume

A. Well Depth (ft): 14.29	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 6.88	E. Well Volume (gal) (C*D): 1.21	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 7.41	F. Three Well Volumes (gal) (E*3): 3.63	Pump Intake Depth: Mid-Screen

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)
1157	8.07	0.835	412	9.73	20.64	-58	6.91	0.25	—
1202	6.86	0.711	71.2	8.99	20.92	-2	6.91	0.25	1.25
1207	6.81	0.649	2.7	8.55	21.29	13	6.91	0.25	2.50
1212	6.79	0.613	0.0	8.25	21.57	18	6.91	0.25	3.75
1217	6.80	0.591	0.0	7.99	21.76	20	6.91	0.25	5.00
1222	6.80	0.563	0.0	7.69	21.96	22	6.91	0.25	6.25
1227	6.82	0.558	0.0	7.52	22.00	23	6.91	0.25	7.50
1232	6.82	0.559	0.0	7.54	22.04	23	6.91	0.25	8.75
—	—	—	—	SAMPLE @ 1232	—	—	—	—	—

Total Quantity of Water Removed (gal):	2.31	Sampling Time:	1232
Samplers:	CB, JG	Split Sample With:	N/A
Sampling Date:	06/27/2023	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.663	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13B	**Personnel:** H. Young	**Client:** Dzus Fasteners NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** ok	**Weather:** 73°F, Sunny
Sounding Method: Heron Skinny Dipper	**Gauge Date:** 6/27/23	**Measurement Ref:** TOIC
	Gauge Time:	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0	**Well Diameter (in):** 2

Purge Date: 6/27/23	**Purge Time:** 1234
Purge Method: Low Flow	**Field Technician:** H. Young

Well Volume

A. Well Depth (ft): 44.25	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 4.85	**E. Well Volume (gal) (C*D):** 6.42	**Pump Type:** Peri pump
C. Liquid Depth (ft) (A-B): 39.4	**F. Three Well Volumes (gal) (E*3):** 19.260	**Pump Intake Depth:** mid-screen

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)
1234	5.96	0.110	182	3.04	20.18	37	—	0.25	—
1239	5.77	0.108	171	0.75	18.68	57	—	0.25	1.25
1244	5.65	0.106	163	0.93	18.13	85	—	0.25	2.50
1249	5.59	0.104	153	1.24	17.88	105	—	0.25	3.75
1254	5.52	0.103	143	1.60	17.76	124	—	0.25	5.00
1259	5.51	0.103	146	1.70	17.65	133	—	0.25	6.25
1304	5.27	0.105	135.8	2.40	17.11	155	—	0.25	7.50
1309	5.22	0.104	28.7	2.10	16.86	169	—	0.25	8.75
1314	5.24	0.104	29.8	2.20	16.83	176	—	0.25	10.0
1319	5.25	0.104	28.0	2.22	16.80	180	—	0.25	11.25
1324	5.27	0.103	28.2	2.23	16.86	178	—	0.25	12.50
				SAMPLE @ 1324					

Total Quantity of Water Removed (gal):		**Sampling Time:**	1324
Samplers:	HY	**Split Sample With:**	N/A
Sampling Date:	6/27/23	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

*Gauging done after sampling MW-13A/B due to proximity of PFAS well.

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Dave Fasteau

Well I.D.: MW-13A	**Personnel:** CB, JG	**Client:** NYSDEC (152035)
Location: West Islip, NY	**Well Condition:** OK	**Weather:** Cloudy, 73°F
Sounding Method: Heron WLM	**Gauge Date:** 06/27/2023	**Measurement Ref:** TOIC
	Gauge Time: 1400	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 06/27/2023	**Purge Time:** 1305
Purge Method: Low Flow Peri Pump	**Field Technician:** CB, JG

Well Volume

A. Well Depth (ft): 10.92	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 4.85	**E. Well Volume (gal) (C*D):** 0.989	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 6.07	**F. Three Well Volumes (gal) (E*3):** 2.97	**Pump Intake Depth:** Mid-Screen

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)
1305	7.76	0.215	713	0.00	23.49	14	—	0.25	—
1310	6.90	0.197	406	0.00	22.45	56	—	0.25	1.25
1315	6.81	0.195	41.4	0.00	21.67	118	—	0.25	2.5
1320	6.81	0.200	76	0.00	21.24	116	—	0.25	3.75
1325	6.80	0.206	20	0.00	20.93	153	—	0.25	5
1330	6.81	0.214	0.0	0.00	20.73	209	—	0.25	6.25
1335	6.84	0.224	0.0	0.00	20.64	235	—	0.25	7.5
1340	6.84	0.229	0.0	0.00	20.64	243	—	0.25	8.75
1345	6.86	0.236	0.0	0.00	20.50	251	—	0.25	10
1350	6.87	0.243	0.0	0.00	20.27	255	—	0.25	11.25
1355	6.88	0.249	0.0	0.00	20.05	259	—	0.25	12.50
—	—	—	— SAMPLE @	1355	—	—	—	—	—

Total Quantity of Water Removed (gal):	3.5	**Sampling Time:**	1355
Samplers:	CB, JG	**Split Sample With:**	DUP (Metals)
Sampling Date:	06/27/2023	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: * Gauged done after sample due to PFAS

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Plus Footage

Well I.D.: MW-18	**Personnel:** CB, HY, JG	**Client:** NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** OK	**Weather:** Sunny 76°F
Sounding Method: Heron WLM	**Gauge Date:** 06/26/2023 **Gauge Time:** 1530	**Measurement Ref:** TOIC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 06/27/2023	**Purge Time:** 14:36
Purge Method: Low flow Peri Pump	**Field Technician:** CB, HY, JG

Well Volume

A. Well Depth (ft): 13.34	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 6.31	**E. Well Volume (gal) (C*D):** 1.15	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 7.03	**F. Three Well Volumes (gal) (E*3):** 3.45	**Pump Intake Depth:** Mid-Screen

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)
14:36	7.14	0.078	15.5	0.53	24.95	186	—	0.25	—
14:41	7.55	0.077	1.7	0.00	23.07	184	—	0.25	1.25
14:46	7.55	0.077	0.0	0.00	22.36	186	—	0.25	2.5
14:51	7.53	0.077	0.0	0.00	21.45	191	—	0.25	3.75
14:56	7.53	0.077	0.0	0.00	21.14	194	—	0.25	5
15:01	7.53	0.077	0.0	0.00	20.70	199	—	0.25	6.25
15:06	7.52	0.078	0.0	0.00	20.50	201	—	0.25	7.5
—	—	—	— SAMPLE @ 1506	—	—	—	—	—	—

Total Quantity of Water Removed (gal):	1.98	**Sampling Time:**	1506
Samplers:	CB, HY, JG	**Split Sample With:**	MW-MS/MSD
Sampling Date:	06/27/2023	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: Gauging done after sampling due to PFAS

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Drus Fastener

Well I.D.: MW-9B	**Personnel:** CB, HY, JG	**Client:** NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** OK	**Weather:** Cloudy, 75°F
Sounding Method: Heron Sticky Dipper	**Gauge Date:** 06/26/2023 **Gauge Time:** 1700	**Measurement Ref:** TOIC
Stick Up/Down (ft): Stick up 1 ft.	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 06/27/2023	**Purge Time:** 1611
Purge Method: Low Flow Peri Pump	**Field Technician:** CB, HY, JG

Well Volume

A. Well Depth (ft): 45.20	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 10.54	**E. Well Volume (gal) (C*D):** 5.65	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 34.66	**F. Three Well Volumes (gal) (E*3):** 16.95	**Pump Intake Depth:** Mid-screen

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)
1611	6.26	0.071	58.9	0.16	22.31	193	—	0.25	—
1616	5.94	0.072	57.6	0.00	20.69	211	—	0.25	1.25
1621	5.69	0.077	33.2	0.00	17.20	226	—	0.25	2.50
1626	5.67	0.078	17.6	0.00	15.88	231	—	0.25	3.75
1631	5.60	0.078	8.5	0.00	15.61	232	—	0.25	5.00
1636	5.57	0.079	8.6	0.00	15.39	232	—	0.25	6.25
1641	5.58	0.078	8.4	0.00	15.39	231	—	0.25	7.50
—	—	—	— SAMPLE @ 1641 —						

Total Quantity of Water Removed (gal):	11.98	**Sampling Time:**	1641
Samplers:	CB, HY, JG	**Split Sample With:**	N/A
Sampling Date:	06/27/2023	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: Gauge after sampling due to Proximity of PFAS

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-9	**Personnel:** H.Young, J. Gill	**Client:** Dzus Fasteners NYSDEC (152033)
Location: West Islip, NY	**Well Condition:** OK	**Weather:** 75°F
Sounding Method: Heron Skinny Dipper	**Gauge Date:** 6/27/23	**Measurement Ref:** TOIC
	Gauge Time: 1700	
Stick Up/Down (ft): Stick up (~ 1 ft)	**PID Headspace Reading:** 0.0 ppm	**Well Diameter (in):** 2

Purge Date: 6/27/23	**Purge Time:** 1613
Purge Method: Low Flow	**Field Technician:** H.Young

Well Volume

A. Well Depth (ft): 12.41	**D. Well Volume (gal/ft):** 0.163	**Depth/Height of Top of PVC:** ~1 ft
B. Depth to Water (ft): 9.83	**E. Well Volume (gal) (C*D):** 0.421	**Pump Type:** Peri pump
C. Liquid Depth (ft) (A-B): 2.58	**F. Three Well Volumes (gal) (E*3):** 1.26	**Pump Intake Depth:** mid-screen

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)
1613	7.23	0.290	802	0.96	21.28	151	—	0.25	—
1618	7.12	0.283	63.8	0.25	19.95	132	—	0.25	1.25
1623	7.08	0.282	86.5	0.07	19.34	141	—	0.25	2.50
1628	7.05	0.280	0.0	0.00	19.42	179	—	0.25	3.75
1633	7.03	0.279	0.0	0.20	19.45	190	—	0.25	5.00
1638	7.02	0.279	0.0	0.18	19.39	193	—	0.25	6.25
1643	7.01	0.279	0.0	0.18	19.34	197	—	0.25	7.50
—	—	—	—	SAMPLE @ 1643	—	—	—	—	—

Total Quantity of Water Removed (gal):		**Sampling Time:**	1643
Samplers:	HY, JG	**Split Sample With:**	N/A
Sampling Date:	6/27/23	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

* Gauging done after sampling due to PFAS

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

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

SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC
152033	Project: Opus Fasteners

Location: SD-09

Sampling Location Description: Southern end at Willets Creek

Sample Location ID: 152033-SM-SD-09-0623

Sheet 1 of 1

Sample Method: Composite
Depth of Water Body: 1 ft.
Width of Water Body: 10 Ft
Water Body Location: West Islip, NY

Sampling Date/Time	Start	Finish
DATE	6/26/23	6/26/23
TIME	1150	1200

Surface Conditions: Calm
Weather: 75°F Sunny

Water Quality Parameters						
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)
1150	6.44	0.110	76	5.86	19.89	172

Description of Sediment Water
M/C SAND, little silt, wet, NA, Poorly sorted well graded
NR

Total Quantity of Water Removed (gal): —
Samplers: CS, HY
Sampling Date: 06/26/2023

Sampling Time: 1200
Split Sample With: Field Dup
Sample Type: Comp.

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

SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dress Fasteners	SD-08

Sampling Location Description: Towards Southern end of Willets Creek

Sample Location ID: 152033-SM-SD-08-0623

Sample Method: Comp.
Depth of Water Body: 1 Ft.
Width of Water Body: 10 Ft.
Water Body Location West Islip, NY

Sheet 1 of 1

Sampling Date/Time	Start	Finish
DATE	6/26/23	6/26/23
TIME	1210	1220

Surface Conditions: Calm
Weather: Sunny 75°F

Water Quality Parameters						
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)
1210	6.52	0.107	17.4	5.91	20.38	165

Description of Sediment Water

M/C SAND, little sub angular to rounded F/m Gravel, trace Silt, wet, NA, poorly Sorted, well graded

Total Quantity of Water Removed (gal): —
Samplers: CB, HY
Sampling Date: 06/26/2023

Sampling Time: 1220
Split Sample With: N/A
Sample Type: Comp 1

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

SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC
192053	Project: Dens Festers

Location: SD-01

Sampling Location Description: Northern End of Willetts Creek

Sample Location ID: 192053-SM-SD-01-0823

Sample Method: Comp.
Depth of Water Body: 1 ft
Width of Water Body: 10 ft
Water Body Location West Islip, NY

Sheet 1 of 1

Sampling Date/Time	Start	Finish
DATE	08/16/23	08/16/23
TIME	1252	1318

Surface Conditions: Calm
Weather: Sunny 75°F

Water Quality Parameters						
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)
1252	6.70	0.112	68.8	8.29	21.53	161

Description of Sediment Water

M/C SAND, little subangular to rounded F/M gravel, trace silt, wet, NA, poorly sorted, well graded

Total Quantity of Water Removed (gal): —
Samplers: CS, HY
Sampling Date: 08/16/2023

Sampling Time: 1318
Split Sample With: MS/MSD
Sample Type: Comp.

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

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC	Location
152033	Project: Dyer Foglers	SW-01

Sampling Location Description: Northern End of Willetts Creek

Sample Location ID: 152033-SW-SW-01-0623

Sample Method: Grab

Sheet 1 of 1

Depth of Water Body: 1 ft

Width of Water Body: 10 ft

Water Body Location: West Islip, NY

Sampling Date/Time	Start	Finish
DATE	6/26/23	6/26/23
TIME	1752	1755

Surface Conditions: Calm

Weather: Sunny, 75°F

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
1752	6.70	0.112	68.8	8.29	21.53	161	Calm, No oil/sheen

Total Quantity of Water Removed (gal): —

Samplers: CA, HM

Sampling Date: 06/26/2023

Sampling Time: 1755

Split Sample With: DUP + MS/MSD

Sample Type: Grab

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	Cloudy	AM	Cloudy	PM
Temperature	75°F	AM	79°F	PM
Wind	8 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: corporate water vessel safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1700

(0800) EA (M. Kacinski & M. Renik) onsite. EA fish collection team launches boat into Lake Capri behind 4 Ivy Ct. and begins setting gill nets and minnow traps at FSA-1 and FSA-2; also begins fishing with line and hook at FSA-2 for fish sample collection. (0945) EA (L. Backman-Lowe & K. Cassidy) onsite at Captree Plaza. (0950) L. Backman-Lowe meets with contractor (Jato) supervisor/foreman to discuss work schedule and coordinate access to 3 monitoring wells within OU1. (1010) L. Backman-Lowe and K. Cassidy mobilize to 4 Ivy Ct to set up fish processing area. (1040) Fish processing area is set up, all EA personnel onsite to cover health and safety topics for the day; also discuss fishing methods. (1115) EA begins processing fish collected in early portion of the morning, weighing, measuring, tagging and bagging. (1200) M. Kacinski & M. Renik prepare boat with electrofishing equipment to begin resume collection at FSA-2. (1201) L. Backman-Lowe & K. Cassidy mobilize to Captree plaza to meet groundwater/surface water/sediment sampling team and assist with sample collection within Willetts Creek. (1340) All surface water and sediment samples collected and labeled. (1330) M. Kacinski & M. Renik offsite to grab lunch. (1350) L. Backman-Lowe & K. Cassidy mobilize to begin well integrity checklist inspections. (1435) L. Backman-Lowe & K. Cassidy mobilize with GW/SW/SD sampling team to begin sampling groundwater at MW-22 well cluster. (1455) L. Backman-Lowe & K. Cassidy mobilize to gauge all monitoring wells that will not be sampled for PFAS during this event [MW-15A/B, MW-23A/B, MW-17, MW-1, MW-2, MW-3]. (1540) L. Backman-Lowe & K. Cassidy note that MW-9 is missing onsite, dig through topsoil to attempt to locate – no success. (1625) L. Backman-Lowe & K. Cassidy mobilize back to 4 Ivy Ct/Fish Processing area to assist fish collection team with processing of samples collected during afternoon. (1650) EA fish sampling team begins breaking down staging area and securing all equipment. (1730) M. Kacinski & M. Renik offsite. (1735) L. Backman-Lowe & K. Cassidy mobilize back to OU1 area to assist GW/SW/SD sampling team with packing up equipment. (1745) EA locates MW-9, buried in topsoil. (1805) EA (L. Backman-Lowe & K. Cassidy) 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	8.5
K. Cassidy	EA	Scientist	8.5
M. Kacinski	EA	Scientist	10
M. Renik	EA	Scientist	10

Equipment Description	Contractor/Vendor	Quantity	Used
Fishing Pole	EA	2	Yes
Fishing Net	EA	2	Yes
YSI Water Quality Meter	EA	2	Yes
16 ft aluminum hull boat	EA	1	Yes
Electrofishing mount for boat	EA	1	Yes
Gillnet	EA	2	Yes
Seine	EA	1	No
Minnow Trap	EA	4	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

Sampling of FSA-2 nearly complete. All largemouth bass samples accounted for. 3/5 American eel samples accounted for. 2/5 forage fish samples accounted for. 0/5 common carp samples accounted for.

EA did not see or catch any of the target forage fish species (golden shiner). However, juvenile bluegill were caught and processed in place of golden shiner to be used as targets of opportunity for forage fish.

M. Kacinski noted that the macrophyte growth in Lake Capri is prohibitive of electrofishing and using seines in some areas, specifically FSA-1. This will make it difficult to collect the requisite mass of fishes for complete sampling in this sampling area. The fish collection team will attempt to collect fishes in FSA-1 on 6/27 and 6/28 using other methods such as gillnets, minnow traps, and hook and line.

EA intends to focus on completing sampling at FSA-2 first thing in the morning on 6/27 and then move on to FSA-1 and FSA-3 for sample collection.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

L. Backman-Lowe met with homeowner at 4 Ivy Ct to discuss fish sampling, access to Lake Capri, and storage of the EA vessel overnight. Homeowner asked if fish sampling would result in additional remedial action in Willetts Creek/Lake Capri. Homeowner was told to contact NYSDEC PM with questions regarding ongoing work related to site management activities.

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: 06/26/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Fish processing area set up in back yard of 4 Ivy Ct. Measuring board and scale shown in center of table.

Dzus Fastener Site, West Islip, New York

Largemouth bass sample FSA2-01-LMB-2019301.

Dzus Fastener Site, West Islip, New York

Laremouth bass sample FSA2-06-LMB-2019306.

Dzus Fastener Site, West Islip, New York

EA-owned fish sampling boat.

Macrophytes and algae growing in FSA-1.

Dzus Fastener Site, West Islip, New York

EA-owned fish sampling boat equipped with electrofishing technology.

Dzus Fastener Site, West Islip, New York

American eel sample FSA2-04-AE-2019311.

Dzus Fastener Site, West Islip, New York

EA biologist weighing American eel sample FSA2-04-AE-2019311

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	Cloudy	AM	Cloudy	PM
Temperature	70°F	AM	80°F	PM
Wind	6 mph S	AM	13 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: corporate water vessel safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1700

(0730) EA (L. Backman-Lowe, K. Cassidy, M. Kacinski, & M. Renik) onsite. (0740) M. Kacinski & M. Renik launch boat and begin collecting fish at FSA-1 with hook and line. (0820) Five largemouth bass samples from FSA-1 are processed at staging area. (0840) M. Kacinski & M. Renik check gill nets at FSA-1 and FSA-2; largemouth bass, pumpkinseed, and bluegill recovered but not processed. (0925) EA fish sampling team prepares to collect fish in FSA-1 and FSA-3 with electroshocking equipment. (0945) M. Kacinski, M. Renik & K. Cassidy begin collecting fish samples from FSA-1 via electroshocking; L. Backman-Lowe heads to Captree Plaza to meet with invasive species management subcontractor [GEI]. (1000) GEI (L. Gervase & C. Cannon) onsite. (1005) L. Backman-Lowe & GEI go through health and safety discussion and cover activities planned for today's invasive species management. (1015) GEI enters Willetts Creek corridor and begin applying herbicide to Phragmites; L. Backman-Lowe checks in with groundwater sampling team. (1020) L. Backman-Lowe back to fish processing area; fish sampling team processes American eel samples from FSA-1. (1040) Fish sampling team begins collecting samples in FSA-3 with electroshocking technology. (1205) Fish sampling team begins processing largemouth bass and American eel samples collected from FSA-3. (1250) EA fish sampling team breaks for lunch. (1305) L. Backman-Lowe & K. Cassidy return to Captree plaza parking lot to assist groundwater sampling team with sample collection at MW-13A and MW-13B. (1330) GEI stops work due to high winds, GEI offsite. (1415) L. Backman-Lowe & K. Cassidy back to fish sampling staging area; M. Kacinski & M. Renik back on boat to complete electroshocking collection of American eels, juvenile bluegill, and juvenile pumpkinseed at FSA-2. (1515) Begin processing American eel, juvenile bluegill, and juvenile pumpkinseed samples from FSA-2. (1530) M. Kacinski & M. Renik begin collecting juvenile bluegill and juvenile pumpkin seed samples via electroshocking technology at FSA-1. (1700) Finish sampling and processing fish samples; begin breaking down fish sampling staging area. (1805) EA 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	8.5
K. Cassidy	EA	Scientist	8.5
M. Kacinski	EA	Scientist	10
M. Renik	EA	Scientist	10

Equipment Description	Contractor/Vendor	Quantity	Used
Fishing Pole	EA	2	Yes
Fishing Net	EA	2	Yes
YSI Water Quality Meter	EA	2	Yes
16 ft aluminum hull boat	EA	1	Yes
Electrofishing mount for boat	EA	1	Yes
Backpack electrofishing equipment	EA	1	Yes
Gillnet	EA	2	Yes
Seine	EA	1	No
Minnow Trap	EA	4	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 did not observe common carp in Lake Capri or in Willetts Creek during either of the sample collection days.

Per confirmation from DER and DFW, EA collected juvenile bluegill and pumpkinseed as targets of opportunity in place of forage fish species (golden shiner, spottail shiner, fall fish). 5 samples of juvenile bluegill and pumpkinseed were collected for FSA-1 and FSA-2. No samples for juvenile bluegill or juvenile pumpkinseed were collected for FSA-3.

5 samples of largemouth bass and American eel were collected at FSA-2, meeting recommendations put forth in the Fish Sampling Workplan. No common carp were collected in this area.

5 samples of largemouth bass and American eel were collected at FSA-1, meeting recommendations put forth in the Fish Sampling Workplan. No common carp were collected in this area.

5 samples of American eel were collected at FSA-3. 1 sample of largemouth bass was collected at FSA-3. 4 samples of adult pumpkinseed were collected at FSA-3, to be used as targets of opportunity for largemouth bass.

EA biologist confirms that the species composition that has been identified in 2 days of sampling is representative of the community within the lake and creek; it is unlikely that other species (common carp, golden shiner, spottail shiner, fall fish) are present. Sampling is complete.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

None.

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: 06/27/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Largemouth bass caught with hook and line at FSA-1.

Dzus Fastener Site, West Islip, New York

Largemouth bass sample FSA1-01-LMB-2019314 being measured.

Dzus Fastener Site, West Islip, New York

Fish collection team pulling gillnet at FSA-1 in Lake Capri.

Dzus Fastener Site, West Islip, New York

Fish collection team electroshocking FSA-1 location in Willetts Creek.

Dzus Fastener Site, West Islip, New York

American eel caught during electrofishing of FSA-1 in Willetts Creek.

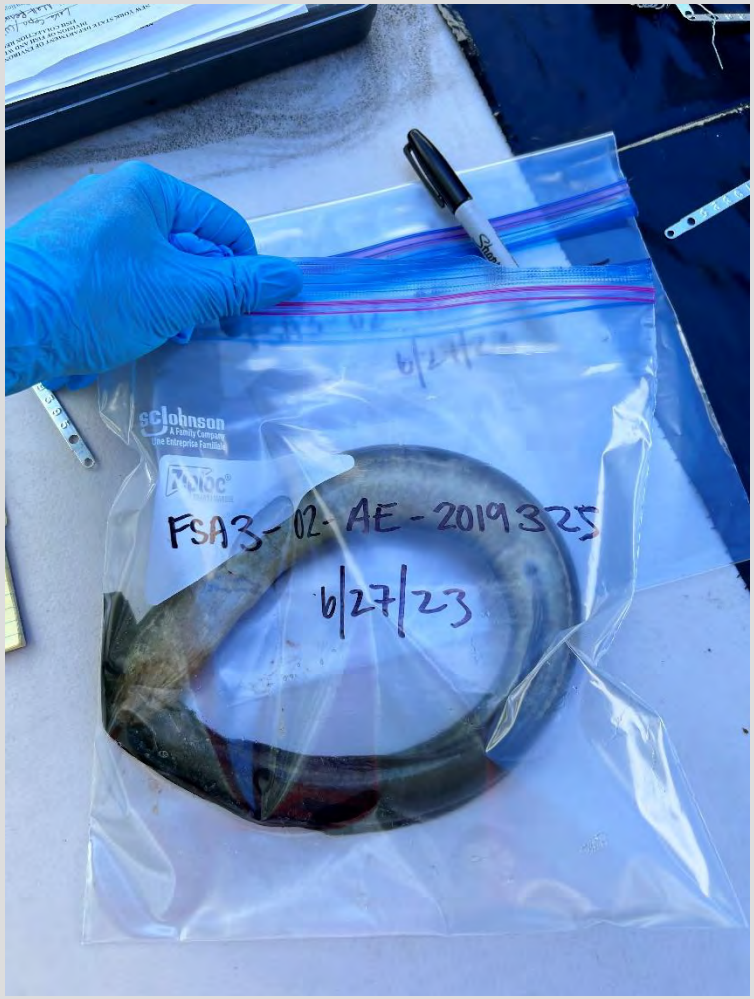
Dzus Fastener Site, West Islip, New York

Fish collection team sampling FSA-3 in Willetts Creek with electroshocking tech.

Dzus Fastener Site, West Islip, New York

Adult pumpkinseed caught in FSA-3 sampling area.

Dzus Fastener Site, West Islip, New York



American eel sample FSA3-02-AE-2019325.

Dzus Fastener Site, West Islip, New York

Water quality parameters collected in Lake Capri during fish sampling.

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	Cloudy	AM	Cloudy	PM
Temperature	70°F	AM	80°F	PM
Wind	6 mph S	AM	13 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: corporate water vessel safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0730	Departed Site:	1700

(0700) EA (K. Cassidy & L. Backman-Lowe) onsite. (0710) K. Cassidy begins walking Willetts Creek corridor to perform portion of Site-Wide Inspection and take photos. (0715) L. Backman-Lowe performs Inspection of OU1. (0720) L. Backman-Lowe meets GEI (L. Gervase & C. Cannon) at West Islip High School to unlock gates and provide access to creek corridor. (0800) K. Cassidy completes creek walk and GEI begins treating phrag with herbicide. (0830) EA begins processing fish samples and filling out sample collection forms and chains of custody. (1030) GEI completes herbicide application. (1100) GEI & EA 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	4
K. Cassidy	EA	Scientist	4
L. Gervase	GEI	Scientist	3.5
C. Cannon	GEI	Scientist	3.5

Equipment Description	Contractor/Vendor	Quantity	Used
Backpack sprayer	GEI	2	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

Site Photographs (Descriptions Below)
Photos attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 06/28/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Photo from Willetts Creek, note the dead phragmites stand(s).

Dzus Fastener Site, West Islip, New York

Willetts Creek vegetation.

Dzus Fastener Site, West Islip, New York

Culvert near Burling Ln footbridge, no signs of rocks being moved.

Dzus Fastener Site, West Islip, New York

Willetts Creek vegetation.

Dzus Fastener Site, West Islip, New York

Dead phragmites mixed with native cattails in Willetts Creek.

Dzus Fastener Site, West Islip, New York

Dead phragmites stands behind West Islip High School.

* Analyses: PFAS, cadmium, chromium, chlordane, lipids, % moisture

(FSA-1)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, Lincoln Backman-Lowe (Print Name), of 269 W. Jefferson St. Syracuse, NY 13202 (Print Business Address) collected the following on 6/27/23 (Date), 2023 from Lake Capri + Willetts Creek (Water Body) in the vicinity of Ivy Ct. in West Islip, NY (Landmark, Village, Road, etc.) Town of West Islip, NY, in Suffolk & County.

Item(s) 5 - Largemouth bass ; 5 - American eel ; 5 - pumpkinseed

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on 6/27/23, 2023.

Signature 6/28/23 Date

I, Lincoln Backman-Lowe, received the above mentioned sample(s) on the date specified and assigned identification number(s) 2019314-2019323 ; 2019340-2019344 to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

Signature 6/28/23 Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name): DAVID BRYK	TIME & DATE: 1500 6/28/2023	REMARKS
SIGNATURE: [signature]	UNIT: HCFS	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

FSA-1

page 1 of 3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri + Willetts Creek DEC Region 1

Collections made by (include all crew) M. Kaczinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☒Electrofishing ☐Gill netting ☐Trap netting ☐Trawling ☐Seining ☒Angling ☐Other _____

Preservation Method: ☒Freezing ☐Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS	
	2019314	LMB	6/27/23	FSA1-01			320	455	Angling	0800
	2019315	LMB	6/27/23	FSA1-02			326	460	Angling	
	2019316	LMB	6/27/23	FSA1-03			211	115	Angling	
	2019317	LMB	6/27/23	FSA1-04			377	800	Angling	
	2019318	LMB	6/27/23	FSA1-05			216	110	Angling	
	2019319	AE	6/27/23	FSA1-01			415	130	Electro	0945
	2019320	AE	6/27/23	FSA1-02			270	481	Electro	
	2019320	AE	6/27/23	FSA1-02			275	41	→ Total composite: 89g	
	2019321	AE	6/27/23	FSA1-03			455	215	Electro	
	2019322	AE	6/27/23	FSA1-04			295	66	Electro	
	2019323	AE	6/27/23	FSA1-05			335	75	Electro	
	2019340	PS	6/27/23	FSA1-01			119	32	Electro	0945
	2019340	PS	6/27/23	FSA1-01			124	33.5	→ Total composite: 65.5g	
	2019344	PS	6/27/23	FSA1-05			139	48	Electro	
	2019344	PS	6/27/23	FSA1-05			122	33	→ Total composite: 81g	

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: LMB = largemouth bass g = gram(s)
AE = American eel
PS = pumpkinseed
mm = millimeter(s)

FSA-1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri + Willetts Creek DEC Region 1

Collections made by (include all crew) M. Kasinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☒Electrofishing ☐Gill netting ☐Trap netting ☐Trawling ☐Seining ☐Angling ☐Other _____

Preservation Method: ☒Freezing ☐Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019341	PS	6/27/23	FSA1-02			87	9	Electro
	2019341	PS		FSA1-02			83	8.5	Electro
	2019341	PS		FSA1-02			83	8.5	Electro
	2019341	PS		FSA1-02			85	7.5	Electro
	2019341	PS		FSA1-02			86	7.5	Electro
	2019341	PS		FSA1-02			79	7.5	Electro
	2019341	PS		FSA1-02			71	5.5	Electro
	2019341	PS		FSA1-02			72	5	Electro
	2019341	PS		FSA1-02			70	5	→ Total composite: 64g
	2019342	PS	6/27/23	FSA1-03			102	19	Electro
	2019342	PS		FSA1-03			94	14	Electro
	2019342	PS		FSA1-03			86	11.5	Electro
	2019342	PS		FSA1-03			85	10	Electro
	2019342	PS		FSA1-03			87	10	→ Total composite: 64.5g

0945

0947

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: PS = pumpkinseed
mm = millimeter(s)
g = gram(s)

FSA-1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri + Willetts Creek DEC Region 1

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☒ Electrofishing ☐ Gill netting ☐ Trap netting ☐ Trawling ☐ Seining ☐ Angling ☐ Other

Preservation Method: ☒ Freezing ☐ Other Notes (SWFDB survey number):

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019343	PS	6/27/23	FSA1-04			84	8.5	Electro
	2019343	PS		FSA1-04			82	9	Electro
	2019343	PS		FSA1-04			76	7.5	Electro
	2019343	PS		FSA1-04			83	9	Electro
	2019343	PS		FSA1-04			75	6.5	Electro
	2019343	PS		FSA1-04			73	5.5	Electro
	2019343	PS		FSA1-04			82	8.5	Electro
	2019343	PS		FSA1-04			79	7	Total composite: 61.5g

0945

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: PS = pumpkinseed
mm = ~~milligram(s)~~ millimeter(s)
g = gram(s)

* Analyses: PFAS, cadmium, chromium, chlordane, lipids, % moisture

(FSA-2)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, Lincoln Backman-Lowe (Print Name), of 269 W. Jefferson St. Syracuse, NY 13202 (Print Business Address) collected the following on 6/26 - 6/27 (Date), 2023 from Lake Capri (Water Body) in the vicinity of Montauk Hwy in West Islip, NY (Landmark, Village, Road, etc.) Town of West Islip, in Suffolk County.

Item(s) 7 - largemouth bass; 5 - American eel; 4 - bluegill; 1 - pumpkinseed

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on 6/26 - 6/27, 2023.

Signature 6/28/23 Date

I, Lincoln Backman-Lowe, received the above mentioned sample(s) on the date specified and assigned identification number(s) 2019301-2019313; 2019336-2019339 to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

Signature 6/28/23 Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name): DAVID BRYK	TIME & DATE: 1500 6/28/2023	REMARKS
SIGNATURE: DBryk	UNIT: HCFS	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

FSA-2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri DEC Region _____

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☑Electrofishing ☐Gill netting ☐Trap netting ☐Trawling ☐Seining ☑Angling ☐Other _____

Preservation Method: ☑Freezing ☐Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS	
	2019301	LMB	6/26/23	FSA2-01			226	132	Angling	
	2019302	LMB		FSA2-02			181	62	Angling	1030
	2019304	LMB		FSA2-03			205	91	Angling	
	2019306	LMB		FSA2-04			386	790	Angling	
	2019307	LMB	↓	FSA2-05			435	1120	Angling	
	2019311	AE	6/26/23	FSA2-01			492	240	Electro	
	2019312	AE		FSA2-02			*298	50	Electro	
	2019312	AE		FSA2-02			295	40	→ Total composite: 90g	1400
	2019313	AE		FSA2-03			282	46	Electro	
	2019313	AE	↓	FSA2-03			235	25	→ Total composite: 71g	
	2019336	AE	6/27/23	FSA2-04			246	27.5	Electro	
	2019336	AE	6/27/23	FSA2-04			322	58	→ Total composite: 85.5g	1400
	2019339	AE	6/27/23	FSA2-05			530	310	Electro	
	2019337	BG	6/27/23	FSA2-04			125	31	Electro	
	2019337	BG	6/27/23	FSA2-04			128	36	→ Total composite: 67g	

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: LMB = largemouth bass
AE = American eel
BG = bluegill
mm = millimeter(s)
g = gram(s)

* juvenile bluegill collected as targets of opportunity in place of forage fish (i.e., golden shiner)

FSA-2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri DEC Region 1

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☑Electrofishing ☐Gill netting ☐Trap netting ☐Trawling ☐Seining ☐Angling ☐Other

Preservation Method: ☑Freezing ☐Other Notes (SWFDB survey number):

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019308	BG	6/26/23	FSA2-01			95	15	Electro
	2019308	BG		FSA2-01			85	10	Electro
	2019308	BG		FSA2-01			90	12	Electro
	2019308	BG		FSA2-01			81	8	Electro
	2019308	BG		FSA2-01			75	7	Electro
	2019308	BG	↓	FSA2-01			84	10	→ Total composite: 62g
	2019309	BG	6/26/23	FSA2-02			76	7	Electro
	2019309	BG		FSA2-02			103	19	Electro
	2019309	BG		FSA2-02			92	13	Electro
	2019309	BG		FSA2-02			83	10	Electro
	2019309	BG		FSA2-02			82	9	Electro
	2019309	BG	↓	FSA2-02			87	11	→ Total composite: 69g

1400

1400

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: BG = bluegill
mm = millimeter(s)
g = gram(s)

* ~~bluegill collected~~ (LBL) juvenile bluegill collected as targets of opportunity in place of forage fish (i.e., golden shiner)

FSA-21

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri DEC Region 1

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Love

Sampling Method: ☒ Electrofishing ☐ Gill netting ☐ Trap netting ☐ Trawling ☐ Seining ☐ Angling ☐ Other _____

Preservation Method: ☒ Freezing ☐ Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019310	BG	6/26/23	FSA2-03			92	13	Electro
	2019310	BG		FSA2-03			87	11	Electro
	2019310	BG		FSA2-03			84	10	Electro
	2019310	BG		FSA2-03			81	9	Electro
	2019310	BG	6/27/23	FSA2-03			93	14	→ Total Composite: 57g
	2019338	PS	6/27/23	FSA2-05			91	13	Electro
	2019338	PS	*	FSA2-05			87	11	Electro
	2019338	PS		FSA2-05			81	7.5	Electro
	2019338	PS		FSA2-05			80	7.5	Electro
	2019338	PS		FSA2-05			78	7.5	Electro
	2019338	PS		FSA2-05			77	6.5	Electro
	2019338	PS		FSA2-05			87	10	Electro
	2019338	PS		FSA2-05			73	5.5	Electro
	2019338	PS		FSA2-05			70	5	→ Total composite: 73.5g
				Lil Buck-Lee					

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: BG = bluegill
PS = pumpkinseed
mm = millimeter(s)
g = gram(s)

* juvenile bluegill + pumpkinseed collected as targets of opportunity in place of forage fish (i.e., golden shiner)

FSA-2

page 4 of 4

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Dzus Fastener Co. - Lake Capri DEC Region 1

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☒ Electrofishing ☐ Gill netting ☐ Trap netting ☐ Trawling ☐ Seining ☒ Angling ☐ Other _____

Preservation Method: ☒ Freezing ☐ Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019303	LMB	6/26/23	FSA2-06-LMB			218	97	Angling (additional, if necessary)
	2019305	LMB	6/26/23	FSA2-07-LMB			180	61	Angling (additional, if necessary)

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: LMB = largemouth bass
mm = millimeter(s)
g = gram(s)

* LMB samples 06 and 07 are additional samples (only 5 needed, per Fish Sampling WP)

* Analyses: PFAS, cadmium, chromium, chlordane, lipids, % moisture

(FSA-3)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, Lincoln Backman-Lowe (Print Name), of 269 W. Jefferson St. Syracuse, NY 13202 (Print Business Address) collected the following on 6/27 (Date), 2023 from Willetts Creek (Water Body) in the vicinity of West Islip High School (Landmark, Village, Road, etc.) Town of West Islip, in Suffolk County.

Item(s) 2 - largemouth bass; 4 - pumpkinseed; 5 - American eel

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on 6/28/23, 2023.

Signature 6/28/23 Date

I, Lincoln Backman-Lowe, received the above mentioned sample(s) on the date specified and assigned identification number(s) 2019324-2019330; 2019332-2019335 to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

Signature 6/28/23 Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name): DAVID BRYK	TIME & DATE: 1500 6/28/2023	REMARKS
SIGNATURE	UNIT: HCFS	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

FSA-3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name Daus Fastener Co. - Willetts Creek DEC Region 1

Collections made by (include all crew) M. Kacinski, M. Renik, K. Cassidy, L. Backman-Lowe

Sampling Method: ☒Electrofishing ☐Gill netting ☐Trap netting ☐Trawling ☐Seining ☐Angling ☐Other

Preservation Method: ☒Freezing ☐Other Notes (SWFDB survey number):

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH (mm)	WEIGHT (g)	REMARKS
	2019329	LMB	6/27/23	FSA3-01-LMB			185	62	Electro
	2019330	LMB	6/27/23	FSA3-02-LMB			170	47	Electro
	2019330	LMB	6/27/23	FSA3-02-LMB			162	38	↳Total composite: 85g
	2019332	PS	6/27/23	FSA3-03-PS			148	61	Electro
	2019333	PS	6/27/23	FSA3-04-PS			151	72	Electro
	2019334	PS	6/27/23	FSA3-05-PS			149	70	Electro
	2019335	PS	6/27/23	FSA3-06-PS			164	85	Electro
	2019324	AE	6/27/23	FSA3-01-AE			435	139	Electro
	2019325	AE	6/27/23	FSA3-02-AE			550	400	Electro
	2019326	AE	6/27/23	FSA3-03-AE			306	65	Electro
	2019327	AE *	6/27/23	FSA3-04-AE			292	46	Electro
	2019327	AE	6/27/23	FSA3-04-AE			232	25	↳Total composite: 71g
	2019328	AE	6/27/23	FSA3-05-AE			303	43	Electro
	2019328	AE	6/27/23	FSA3-05-AE			278	34	↳Total composite: 77g

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

Key: LMB = largemouth bass
PS = pumpkinseed
AE = American eel
mm = millimeter(s)
g = gram(s)

* Adult pumpkinseed used as targets of opportunity for largemouth bass

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. – Tom King

Site Location: West Islip, NY

Weather Conditions				
General Description	Cloudy	AM	Partly Cloudy	PM
Temperature	65°F	AM	78°F	PM
Wind	3 mph S	AM	5 mph SW	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

Proper PPE worn during the site activities and no safety concerns noted during the site visit.

Summary of Work Performed	Arrived at site:	0830	Departed Site:	1500

(0830) EA (T. King) onsite and parked at Captree Plaza. EA wetland scientist walked the site from upstream location down to Lake Capri to perform a general site recon and view general site conditions. Adjacent property owner down near Lake Capri inquired about reason for visit and had no further concern or questions after speaking to the property owner for about 1 minute explaining the purpose of the visit. Wetland monitoring officially started at 0940 in which EA conducted the photographic documentation of the site and GPS located areas of invasive species while walking from the downstream end at Lake Capri up to Captree Plaza. Once at Captree Plaza EA conducted a second walk down to Lake Capri looking for any areas of invasive vegetation that may have been missed during the first pass. (1245) EA collected wetland data at previously established monitoring plots locations, including the documentation of vegetation success, and the presence of wetland soils and hydrology. (1445) Arrive back to Captree plaza to wrap up for the day and demobilize at (1500).

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
Thomas King	EA	Wetland Scientist	6.5

Equipment Description	Contractor/Vendor	Quantity	Used
Trimble handheld GPS Unit	EA	1	Yes
Cell Phone (Camera)	EA	1	Yes
Soil Auger	EA	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

All annual wetland monitoring field survey activities for 2023 have been completed

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

T. King was approached in the stream channel by one of the property owners down near Lake Capri who inquired what EA was doing today. T. King informed her that a wildlife and vegetation survey within the stream channel was being conducted in which the property owner shared her wildlife observation with the field staff and left the area.

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): Tom King	**Date: 10/02/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 1: View facing upstream, from southernmost portion of the project site.

Photograph 2: View of mowed eastern stream bank facing upstream.

Photograph 3: Overview of data collection point 1.

Photograph 4: Purple loosestrife observed near data collection point 1.

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 5: Saturated soils and drainage patters observed with Wetland Monitoring Area #1.

Photograph 6: View facing upstream towards the lower bridge crossing.

Photograph 7: View facing upstream from the lower bridge crossing.

Photograph 8: Previously identified bare area identified during Year 1 which is now vegetated.

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 9: View facing upstream from the central portion of the project site.

Photograph 10: Overview of data collection point 2.

Photograph 11: View of mowed western stream bank facing upstream just north of data collection point 2.

Photograph 12: Upstream view of stream channel.

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 13: Erosion concern on the eastern bank just below the upper bridge crossing.

Photograph 14: View facing upstream just above the upper bridge crossing.

Photograph 15: View facing upstream near data collection point 3.

Photograph 16: overview of data collection point 3.

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 17: View facing upstream at the upper portion of the project site.

Photograph 18: Overview of wetland monitoring area #4.

Photograph 19:

Photograph 20:

On-site Photographs
Dzus Fastener, Inc. Wetland Monitoring – Year 3
Photos Taken October 2, 2023

Photograph 21:

Photograph 22:

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. – Tom King

Site Location: West Islip, NY

Weather Conditions

General Description	Sunny	AM	Sunny	PM
Temperature	75°F	AM	80°F	PM
Wind	5 mph S	AM	5 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: working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0900	Departed Site:	1500

(0900) GEI staff (L. Gervase, D. Oscarson, E. Swan) arrive on site. Staging occurred in the parking lot area behind the Stop & Shop located at 400 Union Blvd, West Islip, NY 11795. LG, DO, and ES proceeded to wade through the site from the most northern point near the staging area, to the most southern point near West Islip High School. While wading through Willets Creek, staff lightly raked and seeded any bare areas along the stream bank and the emergent wetland with an approved riparian buffer seed mix. Staff focused on the west side while walking south then the east side while returning back northwards. LG, DO, & ES completed seeding task and left the site by 1500.

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
Luke Gervase	GEI	Ecologist	8
Damon Oscarson	GEI	Ecologist	8
Eric Swan	GEI	Staff Professional	8
Tom King	EA	Wetland Scientist	1

Equipment Description	Contractor/Vendor	Quantity	Used
Rake	GEI	2	Yes
Seed Mix	GEI	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

Fall 2023 seeding effort was completed. Additional seeding efforts are anticipated in the Spring of 2024.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

N/A

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Comments	
N/A	
Site Inspector(s): Luke Gervase	**Date: 10/3/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

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	60°F	AM	65°F	PM
Wind	8 mph W	AM	10 mph W	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: working near bodies of water; slips, trips, and falls; dehydration; traffic; best management practices for pesticide applications.

Summary of Work Performed	Arrived at site:	0900	Departed Site:	1430

(0900) GEI staff (L. Gervase & C. Cannon) arrive on site. Staging occurred in the parking lot area behind the Stop & Shop located at 400 Union Blvd, West Islip, NY 11795. LG and CC donned appropriate PPE and prepared backpack sprayers with approved herbicides to be applied to the target species of common reed (*Phragmites australis*) and Japanese Knotweed (*Reynoutria japonica*). LG and CC proceeded to wade through the site from the most northern point near the staging area to the most southern point near West Islip High School. When necessary, staff went back to the staging area and drove around to the high school parking lot to access another entry point into the project area. While wading through Willets Creek, staff applied herbicide to the target species using backpack sprayers. Pesticide notification signs were displayed prior to any treatments. LG and CC were complete and left the site by 1430.

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
Luke Gervase	GEI	Ecologist	8
Chelsea Cannon	GEI	Ecologist	8

Equipment Description	Contractor/Vendor	Quantity	Used
Backpack sprayers	GEI	2	Yes
Water tank (35 gallon)	GEI	1	Yes
5 Gallon Buckets	GEI	4	Yes
Herbicide products (herbicide, dye, surfactant)	GEI	N/A	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
Fall 2023 herbicide treatment effort was completed. Additional herbicide treatments are expected in the Spring and Fall of 2024. .

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.

N/A

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Comments	
N/A	
Site Inspector(s): Luke Gervase	**Date: 10/9/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

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	33°F	AM	47°F	PM
Wind	8 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: general field work safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0800	Departed Site:	1800

(0800) EA onsite. (0805) Tailgate health and safety meeting held. (0815) Calibrate Horiba U-52 water quality meters. (0830) Mobilize to MW-17 to gauge. (0835) Gauge MW-17. (0840) Mobilize to 7-eleven to gauge MW-1 and MW-2. (0855) Gauge MW-1 (casing full of water). (0902) Gauge MW-2. (0915) EA offsite to Pine Environmental to pick up equipment/supplies. (1008) EA onsite, continue synoptic gauging of monitoring network. (1012) Gauge MW-22A. (1014) Gauge MW-22B. (1016) Mobilize to ACE Hardware to gauge MW-15A and MW-15B. (1026) Gauge MW-15B. (1029) Gauge MW-15A. (1034) Gauge MW-13A. (1037) Gauge MW-13B (casing full of water and sediment). (1042) Gauge MW-23A. (1045) Gauge MW-23B. (1056) Check in at front desk of West Islip High School. (1105) Gauge MW-18. (1105) Start purge at MW-18. (1147) Collect sample at MW-18 for TAL Metals & Hg (total and dissolved). (1154) Mobilize to Captree plaza to access Willetts Creek for SW/SD sampling. (1240) Collect SW sample at SW-12 location, about 25' north of Burling Ln footbridge, split sample with MS/MSD. (1300) Collect SD sample at SD-12 location, split sample with MS/MSD. (1325) Mobilize to historical hot spot location to sample SW/SD. (1340) Collect SW sample at SW-01 location, split sample with FD-01. (1345) Collect SD sample at SD-01 location, split sample with FD-01. (1355) Mobilize back to truck to label SW/SD samples. (1410) Mobilize to MW-17 to set up purging equipment. (1422) Start purge at MW-17. (1532) Collect sample at MW-17 for TAL Metals & Hg (total and dissolved). (1545) Mobilize to OU-6 to set up on MW-9 and MW-9B. (1620) Gauge MW-9. (1625) Gauge MW-9B. (1628) Start purge at MW-9B. (1635) Start purge at MW-9. (1658) Collect sample at MW-9B for TAL Metals & Hg (total and dissolved). (1721) Collect sample at MW-9 for TAL Metals & Hg (total and dissolved). (1730) Pack up equipment. (1800) EA 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
K. Cassidy	EA	Scientist	10

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150 Crewcab	Enterprise	1	Yes
Peristaltic Pump	Pine	2	Yes
Horiba	Pine	2	Yes
Water Level Meter	Pine	2	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 sampling remaining wells tomorrow (11/14).

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.

None.

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: 11/13/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

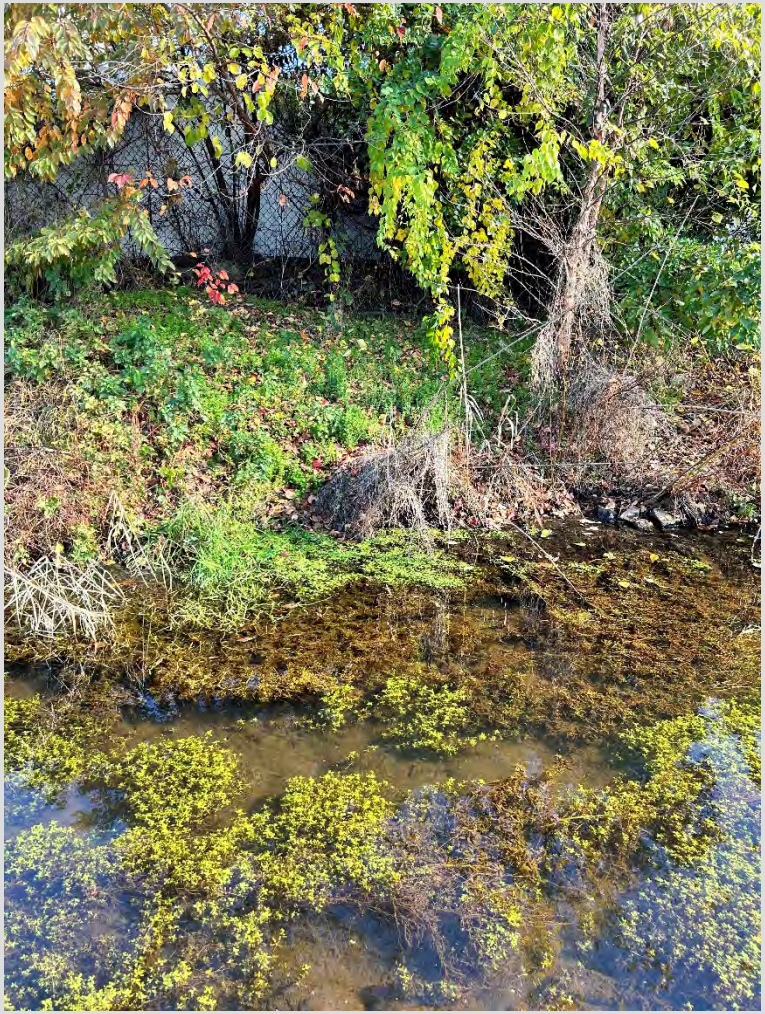
* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

MW-15B (center) and MW-15A (top right)

Dzus Fastener Site, West Islip, New York

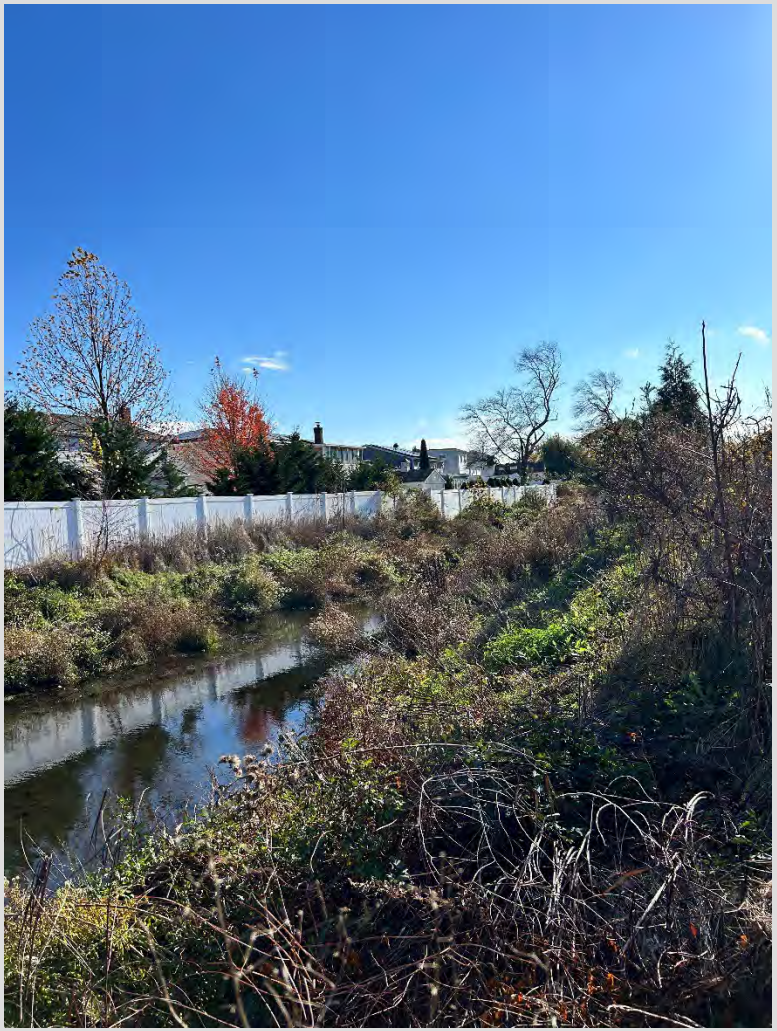
View of Willetts Creek, looking south, from sampling location SW/SD-12



Approximate SW/SD-12 sampling location, looking east

Dzus Fastener Site, West Islip, New York

View of Northern portion of Willetts Creek, looking northeast



View of Willetts Creek vegetation, looking southeast

Dzus Fastener Site, West Islip, New York

MW-9 and MW-9B

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	32°F	AM	51°F	PM
Wind	8 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: general field work safety; working near bodies of water; slips, trips, and falls; dehydration; traffic.

Summary of Work Performed	Arrived at site:	0800	Departed Site:	1615

(0800) EA onsite. (0805) Tailgate health and safety meeting held. (0810) Calibrate Horiba U-52 water quality meters. (0819) Start purge at MW-13A. (0820) Start purge at MW-13B. (0850) Collect sample at MW-13B for TAL Metals (incl. Hg) total and dissolved. (0918) Collect sample at MW-13A for TAL Metals (incl. Hg) total and dissolved, split sample with FD-01. (0926) Start purge at MW-23A. (0938) Start purge at MW-23B. (1006) Collect sample at MW-23A for TAL Metals (incl. Hg) total and dissolved. (1049) Collect sample at MW-23B for TAL Metals (incl. Hg) total and dissolved. (1055) Start purge at MW-22A. (1113) Start purge at MW-22B. (1125) Collect sample at MW-22A for TAL Metals (incl. Hg) total and dissolved. (1150) Collect sample at MW-22B for TAL Metals (incl. Hg) total and dissolved. (1218) Start purge at MW-3. (1238) Start purge at MW-15A. (1308) Collect sample at MW-3 for TAL Metals (incl. Hg) total and dissolved. (1315) Collect sample at MW-15A for TAL Metals (incl. Hg) total and dissolved. (1330) Start purge at MW-15B. (1406) Collect sample at MW-15B for TAL Metals (incl. Hg) total and dissolved. (1431) Start purge at MW-1. (1448) Start purge at MW-2. (1501) Collect sample at MW-1 for TAL Metals (incl. Hg) total and dissolved. (1531) Collect sample at MW-2 for TAL Metals (incl. Hg) total and dissolved. (1540) Pack cooler & organize equipment. (1615) EA 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
K. Cassidy	EA	Scientist	10

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150 Crewcab	Enterprise	1	Yes
Peristaltic Pump	Pine	2	Yes
Horiba	Pine	2	Yes

Water Level Meter	Pine	2	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 sampling remaining wells tomorrow (11/14).

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.

None.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)
None.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 11/14/2023**

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 any of 1-4 above: • If it is not 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 is 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:			

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:			

* BART – Best Available Retrofit Technology

Site Name:	DZUS Fastener
Date/Time:	11/13/2023 0840
Inspector(s):	L. Bjorkman-Love, K. Cassidy
Weather Conditions:	40°F, sunny

GAUGING LOG

Well ID	Installed Depth	Screen Interval (ft)	DTW	DTB	
MW-1	15.3	5.3-15.3	10.12	15.18	
MW-2	14	4.3-14.3	8.62	13.87	
MW-3	15	5-15	7.37	15.24	
MW-9	11.5	1.5-11.5	9.80	12.43	
MW-9B	44.5	34.5-44.5	~~9.80~~	44.95	DTW = 10.48
MW-13A	10.72	5.72-10.72	4.74	10.89	
MW-13B	44.25	34.25-44.25	4.58	42.67	
MW-15A	28.8	18.8-28.8	7.38	28.96	
MW-15B	84.7	74.7-84.7	7.31	83.87	
MW-17	16	6-16	9.05	16.64	
MW-18	13.5	3.5-13.5	6.18	13.57	
MW-22A	14.4	4.4-14.4	8.03	14.38	
MW-22B	44.5	34.5-44.5	7.35	44.84	
MW-23A	14.3	4.3-14.3	6.82	14.80	
MW-23B	44.5	34.5-44.5	6.76	44.39	

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

CALIBRATION
DATE: 11/13/2023
TIME: 0815
METER ID: 51892

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.19	3.95

CONDUCTIVITY CALIBARATION

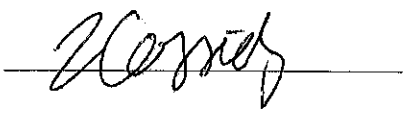
CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.84	4.73

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE



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

CALIBRATION
DATE: 11/13/23
TIME: 0819
METER ID: 253360

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.79	3.89

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.42	4.58

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.1	0.0

COMMENTS

None.

SIGNATURE

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

CALIBRATION
DATE: 11/14/23
TIME: 0810
METER ID: 25336

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.45	3.98

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.12	4.59

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.4	0.4

COMMENTS

None.

SIGNATURE

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

CALIBRATION
DATE: 11/14/2023
TIME: 0805
METER ID: 51892

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.01	3.96

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.34	4.57

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	5.7	0.0

COMMENTS

SIGNATURE

JCassidy

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1	Personnel: K. Cassidy, L. Boekman-Love	Client: NYSDEC
Location: Dzus Fasteners, 7/11 lot	Well Condition: Good	Weather: 53°F, mostly sunny
Sounding Method: Solinist WLM	Gauge Date: 11/13/2023 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft): flush	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/14/2023	Purge Time: 1431
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 15.18	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.12	E. Well Volume (gal) (C*D): 0.825	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 5.06	F. Three Well Volumes (gal) (E*3): 2.47	Pump Intake Depth: ~13.18 ft.

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)
1431	5.91	0.198	9.7	3.61	17.07	180	10.15	0.2	0
1436	5.83	0.199	1.4	3.25	16.87	184	10.15	0.2	1.00
1441	5.76	0.198	0.0	2.92	16.92	186	10.15	0.2	2.00
1446	5.73	0.201	0.0	2.80	16.95	191	10.15	0.2	3.00
1451	5.71	0.201	0.0	2.63	16.92	196	10.15	0.2	4.00
1456	5.70	0.206	0.0	2.69	16.99	199	10.15	0.2	5.00
1501	5.70	0.208	0.0	2.85	17.13	202	10.15	0.2	6.00

Total Quantity of Water Removed (gal): _____ Sampling Time: _____

Samplers: _____ Split Sample With: _____

Sampling Date: _____ Sample Type: _____

COMMENTS AND OBSERVATIONS: _____

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2	Personnel: LBL	Client: NYSDEC
Location: 7-eleven lot	Well Condition: Good	Weather: 53°F, sunny
Sounding Method: solinst WLM	Gauge Date: 11/13/23 Gauge Time:	Measurement Ref: TOIC
Stick Up/Down (ft): 0.3	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: ~~24~~ @ 1448
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 13.87	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 8.62	E. Well Volume (gal) (C*D): 0.86	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 5.25	F. Three Well Volumes (gal) (E*3): 2.58	Pump Intake Depth: 11.87

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)
1451	6.26	0.313	0.8	4.27	18.05	134	8.63	0.3	0.9
1456	6.39	0.316	1.2	3.35	18.80	181	8.63	0.3	2.4
1501	6.37	0.318	0.1	3.21	18.86	192	8.63	0.3	3.9
1506	6.32	0.317	0.0	3.14	18.91	203	8.63	0.3	5.4
1511	6.27	0.323	0.0	2.99	18.91	210	8.63	0.3	6.9
1516	6.19	0.320	0.0	2.94	18.85	214	8.63	0.3	8.4
1521	6.16	0.322	0.0	2.96	18.84	218	8.63	0.3	9.9
1526	6.15	0.322	0.0	3.07	18.76	220	8.63	0.3	11.4
1531	6.13	0.321	0.0	3.12	18.87	224	8.63	0.3	12.9

Total Quantity of Water Removed (gal):		Sampling Time:	1531
Samplers:	LBL	Split Sample With:	N/A
Sampling Date:	11/14/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-3	Personnel: K. Cassidy, L. Boekman-Love	Client: NYSDEC
Location: Doms Fastener	Well Condition:	Weather: 48°F, windy
Sounding Method: Solinist WLM	Gauge Date: 11/13/2023 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft): Up 2.5 ft	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/14/2023	Purge Time: 1218
Purge Method: low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 15.24	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 7.37	E. Well Volume (gal) (C*D): 1.28	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 7.87	F. Three Well Volumes (gal) (E*3): 3.85	Pump Intake Depth: ~

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)
1218	6.50	0.194	311	6.00	16.81	-7	7.37	0.2	0
1223	5.94	0.191	47.1	0.06	16.64	98	7.37	0.2	1.00
1228	5.89	0.191	32.7	0.00	16.63	123	7.37	0.2	2.00
1233	5.89	0.193	98.0	0.00	16.57	111	7.37	0.2	3.00
1238	5.89	0.194	49.3	0.00	16.58	95	7.37	0.2	4.00
1243	5.91	0.195	15.2	0.00	16.60	79	7.37	0.2	5.00
1248	5.91	0.197	1.4	0.00	16.60	70	7.37	0.2	6.00
1253	5.91	0.199	0.0	0.00	16.59	62	7.37	0.2	7.00
1258	5.91	0.201	0.0	0.00	16.57	54	7.37	0.2	8.00
1303	5.92	0.203	0.0	0.00	16.59	47	7.37	0.2	9.00
1308	5.93	0.203	0.0	0.00	16.53	44	7.37	0.2	10.00

Total Quantity of Water Removed (gal):		Sampling Time:	1308
Samplers:	KC / LBL	Split Sample With:	—
Sampling Date:	11/14/2023	Sample Type:	grab

COMMENTS AND OBSERVATIONS:

Volume of Water In Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13A	Personnel: LBL	Client: NYSDEC
Location: Captree parking lot	Well Condition: OK	Weather: 45°F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23 Gauge Time: 10:34	Measurement Ref: TOIC
Stick Up/Down (ft):	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: 0819
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 10.89	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 4.74	E. Well Volume (gal) (C*D): 1.00	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 6.15	F. Three Well Volumes (gal) (E*3): 3.00	Pump Intake Depth: 8.89

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)
0823	5.88	0.340	114	2.47	15.31	156	~~4.78~~	0.3	1.2
0828	6.10	0.310	87.4	2.14	16.27	172	4.78	0.3	2.7
0833	6.19	0.322	59.2	2.03	16.75	201	4.78	0.3	4.2
0838	6.21	0.333	48.4	1.79	16.82	202	4.78	0.3	5.7
0843	6.21	0.329	38.2	1.72	16.96	197	4.78	0.3	7.2
0848	6.19	0.334	21.1	1.63	16.98	206	4.78	0.3	8.7
0853	6.19	0.337	16.6	1.61	17.04	212	4.78	0.3	10.2
0858	6.18	0.341	9.7	1.63	17.02	230	4.78	0.3	11.7
0903	6.18	0.344	7.8	1.64	17.12	234	4.78	0.3	13.2
0908	6.18	0.343	6.3	1.67	17.04	242	4.78	0.3	14.7
0913	6.17	0.342	6.1	1.62	17.14	239	4.78	0.3	16.2
0918	6.15	0.340	5.8	1.63	17.08	243	4.78	0.3	17.7
~~0923~~							~~4.78~~	~~0.3~~	~~19.2~~ (LBL)

Total Quantity of Water Removed (~~gal~~): 17.7 L		Sampling Time:	0918
Samplers:	LBL	Split Sample With:	FD-01
Sampling Date:	11/14/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13B	Personnel: K. Cassidy, L. Beekman-Lowe	Client: NYSDEC
Location: Dows Fasteners,	Well Condition: Good	Weather: 45°F, Sunny
Sounding Method: Solinst IWLM	Gauge Date: 11/13/2023 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft): Flush	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/14/2023	Purge Time: 0820
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 42.67	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 4.58	E. Well Volume (gal) (C*D): 6.21	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 38.09	F. Three Well Volumes (gal) (E*3): 18.63	Pump Intake Depth: ~40.67

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)
0820	4.67	0.358	25.8	0.00	14.18	281	5.42	0.2	—
0825	5.12	0.373	21.3	0.00	14.70	267	5.44	0.2	1.00
0830	5.26	0.353	15.0	0.00	15.21	264	5.44	0.2	2.00
0835	5.30	0.354	5.6	0.00	15.36	261	5.44	0.2	3.00
0840	5.31	0.348	0.0	0.00	15.48	260	5.44	0.2	4.00
0845	5.32	0.346	0.0	0.00	15.69	259	5.44	0.2	5.00
0850	5.31	0.348	0.0	0.00	15.85	258	5.44	0.2	6.00

Total Quantity of Water Removed ~~(gal)~~: 6.00 L
Samplers: KL, LBL
Sampling Date: 11/14/2023

Sampling Time: 0850
Split Sample With: —
Sample Type: grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-15A	Personnel: LBL	Client: NYSDEC
Location: Parking Lot ACE Hardware	Well Condition: OK	Weather: 54°F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23	Measurement Ref: TOIC
	Gauge Time:	
Stick Up/Down (ft): 0.4	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: 12:38
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 28.96	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.4
B. Depth to Water (ft): 7.38	E. Well Volume (gal) (C*D): 3.52	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 21.58	F. Three Well Volumes (gal) (E*3): 10.56	Pump Intake Depth: 23.96

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)
12:40	6.75	0.135	1.0	4.43	16.90	200	7.41	0.3	0.6
12:45	6.65	0.138	0.3	1.14	16.89	204	7.41	0.3	2.1
12:50	6.58	0.143	0.0	0.56	16.86	208	7.41	0.3	3.6
12:55	6.58	0.148	0.0	0.52	16.85	209	7.41	0.3	5.1
13:00	6.57	0.151	0.0	0.48	16.86	210	7.41	0.3	6.6
13:05	6.54	0.151	0.0	0.53	16.79	212	7.41	0.3	8.1
13:10	6.53	0.150	0.0	0.49	16.76	213	7.41	0.3	9.6
13:15	6.53	0.153	0.0	0.50	16.79	214	7.41	0.3	11.1

Total Quantity of Water Removed (gal):		Sampling Time:	13:15
Samplers:	LBL	Split Sample With:	N/A
Sampling Date:	11/14/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-15B	Personnel: LBL	Client: NYSDEC
Location: ACE hardware parking	Well Condition: OK	Weather: 54° F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23 Gauge Time:	Measurement Ref: TOIC
Stick Up/Down (ft): 0.3	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: 13:30
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 83.87	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 7.31	E. Well Volume (gal) (C*D): 12.48	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 76.56	F. Three Well Volumes (gal) (E*3): 37.44	Pump Intake Depth: 78.87

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)
1336	5.96	0.311	2.1	3.74	16.67	159	7.35	0.3	1.8
1341	5.51	0.325	0.0	0.60	16.18	139	7.38	0.3	3.3
1346	5.55	0.328	0.0	0.11	16.10	138	7.39	0.3	4.8
1351	5.59	0.329	0.0	0.05	16.06	136	7.38	0.3	6.3
1356	5.68	0.332	0.0	0.00	16.02	134	7.38	0.3	7.8
1401	5.70	0.332	0.0	0.00	16.01	132	7.38	0.3	9.3
1406	5.74	0.333	0.1	0.00	15.99	131	7.38	0.3	10.8

Total Quantity of Water Removed (gal):

Samplers: LBL

Sampling Date: 11/14/23

Sampling Time: 14

Split Sample With: N/A

Sample Type: Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-9	Personnel: UBL	Client: NYSDEC
Location: OU-6 (DZUS)	Well Condition: OK	Weather: 40°F, partly sunny
Sounding Method: SOlinst WLM	Gauge Date: 11/13/23	Measurement Ref: TOIC
	Gauge Time: 16:20	
Stick Up/Down (ft): 0.0	PID Headspace Reading: 0.0	Well Diameter (in): 2

Purge Date: 11/13/23	Purge Time: 1636
Purge Method: Low flow - peristaltic	Field Technician: UBL

Well Volume

A. Well Depth (ft): 12.43	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.0
B. Depth to Water (ft): 9.80	E. Well Volume (gal) (C*D): 0.43	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 2.63	F. Three Well Volumes (gal) (E*3): 1.29	Pump Intake Depth: 10.43

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)
1636	5.93	0.391	426	0.00	15.80	197	9.82	0.25	-
1641	6.02	0.380	215	0.00	16.55	198	9.82	0.25	1.25
1646	6.02	0.354	123	0.00	16.65	203	9.82	0.25	2.50
1651	6.01	0.341	73.5	0.00	16.64	208	9.82	0.25	3.75
1656	6.00	0.334	44.2	0.00	16.71	213	9.82	0.25	5.00
1701	6.00	0.326	31.1	0.00	16.61	218	9.82	0.25	6.25
1706	6.00	0.321	22.5	0.00	16.62	223	9.82	0.25	7.50
1711	5.99	0.322	21.0	0.00	16.79	224	9.82	0.25	8.75
1716	5.99	0.319	20.7	0.00	16.68	226	9.82	0.25	10.00
1721	5.99	0.317	20.3	0.00	16.76	229	9.82	0.25	11.25

Total Quantity of Water Removed (gal):		Sampling Time:	1721
Samplers:	UBL	Split Sample With:	N/A
Sampling Date:	11/13/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-9B	Personnel: K. Cassidy, L Beckman-Love	Client: NYSDEC
Location: Dana Fastener, on-site	Well Condition: Good	Weather: 40°F, Partly sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/2023	Measurement Ref: TOC (PVC)
Stick Up/Down (ft): up, 4 6in.	Gauge Time: PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/13/2023	Purge Time: 1628
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 44.95	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 10.48	E. Well Volume (gal) (C*D): 5.62	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 34.47	F. Three Well Volumes (gal) (E*3): 16.86	Pump Intake Depth: 42.95

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)
1628	5.07	0.161	158	5.56	13.21	169	10.46	0.2	—
1633	5.00	0.178	99.2	0.56	13.63	210	10.46	0.2	1.00
1638	4.75	0.175	47.0	0.41	13.85	219	10.48	0.2	2.00
1643	4.73	0.181	20.2	0.30	14.13	223	10.48	0.2	3.00
1648	4.73	0.188	10.6	0.25	13.94	227	10.48	0.2	4.00
1653	4.73	0.190	8.3	0.21	13.81	230	10.48	0.2	5.00
1658	4.72	0.190	9.5	0.18	13.79	232	10.48	0.2	6.00
~~1703~~									

Total Quantity of Water Removed (gal): 6.00 L		Sampling Time: 1658	
Samplers: KC, LBL		Split Sample With: —	
Sampling Date: 11/13/2023		Sample Type: Grab	

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-17	Personnel: L. Baldyman-Lowe, K. Cassidy	Client: NYSDEC
Location: Dzus Fasteners, upgradient	Well Condition: Good	Weather: 45°F, sunny
Sounding Method: Solinist WLM	Gauge Date: 11/13/23 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft): up ~3 ft.	PID Headspace Reading:	Well Diameter (in): 2

Purge Date: 11/13/2023	Purge Time: 1422
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 16.64	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 9.05	E. Well Volume (gal) (C*D): 1.24	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 7.59	F. Three Well Volumes (gal) (E*3): 3.72	Pump Intake Depth: ~14.64

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)
1422	5.71	0.117	607	0.80	16.54	22	9.08	0.25	—
1427	5.53	0.114	539	0.57	16.54	28	9.08	0.25	1.25
1432	5.46	0.112	346	0.44	16.43	37	9.08	0.25	2.50
1437	5.51	0.113	282	0.51	16.34	31	9.08	0.25	3.75
1442	5.51	0.112	232	0.25	16.28	26	9.08	0.25	5.00
1447	5.51	0.112	205	0.23	16.23	23	9.08	0.25	6.25
1452	5.59	0.108	160	0.03	15.49	32	9.08	0.25	7.50
1457	5.47	0.107	146	0.09	15.75	24	9.08	0.25	8.75
1502	5.58	0.105	112	0.06	15.83	36	9.08	0.25	10.00
1507	5.57	0.103	40.4	0.00	15.81	39	9.08	0.25	11.25
1512	5.49	0.104	25.7	0.19	15.78	31	9.08	0.25	12.50
1517	5.45	0.106	26.0	0.18	15.71	22	9.08	0.25	13.75
1522	5.43	0.106	25.6	0.15	15.63	20	9.08	0.25	15.00
1527	5.55	0.106	25.4	0.18	15.55	20	9.08	0.25	16.25
1532	5.55	0.106	25.0	0.15	15.57	19	9.08	0.25	17.50
1534									

Total Quantity of Water Removed (~~gal~~): 17.50 L		Sampling Time: 1532	
Samplers: KC, LBL		Split Sample With: MS/MSD	
Sampling Date: 11/13/2023		Sample Type: grab	

COMMENTS AND OBSERVATIONS: Flushed Horiba at 1443

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-18	Personnel: K. Cassidy, L Beckmann-Love	Client: NYSDEC
Location: DZUS Fastener	Well Condition: Good	Weather: 42°F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23	Measurement Ref: TOC
	Gauge Time:	
Stick Up/Down (ft): flush	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/13/2023	Purge Time: 1105
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 13.57	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 6.18	E. Well Volume (gal) (C*D): 1.204	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 7.39	F. Three Well Volumes (gal) (E*3): 3.614	Pump Intake Depth: ~11.57 ft.

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)
1107	5.29	0.314	13.6	3.68	14.39	272	6.27	0.25	—
1112	5.59	0.242	17.1	2.78	17.11	223	6.17	0.25	1.25
1117	5.05	0.232	12.6	2.09	17.44	211	6.17	0.25	2.50
1122	5.04	0.225	1.6	2.16	17.74	203	6.17	0.25	3.75
1127	5.04	0.221	0.2	2.25	18.08	199	6.17	0.25	5.00
1132	5.05	0.218	0.0	1.84	18.35	196	6.17	0.25	6.25
1137	5.09	0.216	0.0	2.04	18.53	194	6.17	0.25	7.50
1142	5.73	0.214	0.0	1.99	18.64	193	6.17	0.25	8.75
1147	5.78	0.213	0.0	2.03	18.72	194	6.17	0.25	10.00

Total Quantity of Water Removed (gal):	10.00 L	Sampling Time:	1147
Samplers:	LBL, KC	Split Sample With:	—
Sampling Date:	11/13/2023	Sample Type:	grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-22A	Personnel: K. Cassidy, L. Buckman-Lowe	Client: NYSDEC
Location: DEC Falconer	Well Condition: Good	Weather: 52°F, windy
Sounding Method: Solinst coLM	Gauge Date: 11/13/2023	Measurement Ref: TOC
Stick Up/Down (ft): flush	Gauge Time:	Well Diameter (in): 2
	PID Headspace Reading: —	

Purge Date: 11/14/2023	Purge Time: 1055
Purge Method: Low-Flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 14.38	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.03	E. Well Volume (gal) (C*D): 1.04	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 6.35	F. Three Well Volumes (gal) (E*3): 3.11	Pump Intake Depth: ~12.38

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	6.31	0.601	13.0	0.00	16.79	-40	8.03	0.2	6
1100	6.32	0.593	3.1	0.00	16.89	-44	8.03	0.2	1.00
1105	6.32	0.578	0.0	0.00	16.99	-48	8.03	0.2	2.00
1110	6.32	0.575	0.0	0.00	17.14	-49	8.03	0.2	3.00
1115	6.33	0.576	0.0	0.00	17.24	-50	8.03	0.2	4.00
1120	6.33	0.576	0.0	0.00	17.27	-51	8.02	0.2	5.00
1125	6.33	0.572	0.0	0.00	17.32	-52	8.02	0.2	6.00

Total Quantity of Water Removed (gal):		Sampling Time:	1125
Samplers:	KC, LBL	Split Sample With:	—
Sampling Date:	11/14/2023	Sample Type:	grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-22B	Personnel: LBL	Client: NYSDEC
Location: grass @ captree	Well Condition: OK	Weather: 52°F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23	Measurement Ref: TOIC
	Gauge Time:	
Stick Up/Down (ft): 0.4	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: 11:13
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 44.84	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.4
B. Depth to Water (ft): 7.85	E. Well Volume (gal) (C*D): 6.03	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 36.99	F. Three Well Volumes (gal) (E*3): 18.09	Pump Intake Depth: 39.84

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)
11:15	6.08	0.222	8.1	1.93	16.42	208	7.85	0.3	0.6
11:20	6.06	0.219	7.4	0.84	16.38	215	7.85	0.3	2.1
11:25	6.04	0.217	5.7	0.28	16.32	219	7.85	0.3	3.6
11:30	6.04	0.216	4.7	0.17	16.28	221	7.85	0.3	5.1
11:35	6.03	0.217	4.6	0.10	16.16	222	7.85	0.3	6.6
11:40	6.03	0.225	3.8	0.03	16.08	224	7.85	0.3	8.1
11:45	6.04	0.227	3.7	0.01	16.05	225	7.85	0.3	9.6
11:50	6.06	0.231	3.7	0.00	15.97	225	7.85	0.3	11.1

Total Quantity of Water Removed (gal):		Sampling Time:	11:50
Samplers:	LBL	Split Sample With:	N/A
Sampling Date:	11/14/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23A	Personnel: K. Cassidy, L. Balkwan-Lowe	Client: NYSDEC
Location: DZUS Fastener	Well Condition: Good	Weather: 48°F, Mostly Sunny
Sounding Method: Solinst LWLM	Gauge Date: 11/13/2023	Measurement Ref: TOC
	Gauge Time:	
Stick Up/Down (ft): flush	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 11/14/2023	Purge Time: 0926
Purge Method: Low-flow	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 14.80	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 6.82	E. Well Volume (gal) (C*D): 1.30	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 7.98	F. Three Well Volumes (gal) (E*3): 3.90	Pump Intake Depth: ~12.80

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)
0926	5.91	0.640	24.1	0.00	17.73	66	6.79	0.2	0
0931	5.99	0.624	15.8	0.00	18.13	48	6.82	0.2	1.00
0936	6.02	0.606	4.9	0.00	18.22	40	6.82	0.2	2.00
0941	6.02	0.607	4.0	0.00	18.25	35	6.82	0.2	3.00
0946	6.00	0.604	2.7	0.00	18.23	32	6.82	0.2	4.00
0951	5.99	0.602	0.6	0.00	18.31	27	6.82	0.2	5.00
0956	5.99	0.599	0.0	0.00	18.36	23	6.82	0.2	6.00
1001	5.99	0.599	0.0	0.00	18.46	21	6.82	0.2	7.00
1006	5.96	0.599	0.0	0.00	18.39	23	6.82	0.2	8.00

Total Quantity of Water Removed (gal):	8.00 L	Sampling Time:	1006
Samplers:	KC/LBL	Split Sample With:	—
Sampling Date:	11/14/2023	Sample Type:	grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23B	Personnel: LBL	Client: NYSDEC
Location: parking lot, captree	Well Condition: OK	Weather: 49°F, sunny
Sounding Method: Solinst WLM	Gauge Date: 11/13/23	Measurement Ref: TOIC
	Gauge Time:	
Stick Up/Down (ft): 0.3	PID Headspace Reading: 0.0 ppm	Well Diameter (in): 2

Purge Date: 11/14/23	Purge Time: 0938
Purge Method: low flow - peri	Field Technician: LBL

Well Volume

A. Well Depth (ft): 44.39	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 6.76	E. Well Volume (gal) (C*D): 6.30	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 38.63	F. Three Well Volumes (gal) (E*3): 18.9	Pump Intake Depth: 39.39

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)
0944	6.74	0.136	25.3	1.28	16.47	83	6.78	0.25	1.50
0949	6.63	0.135	21.6	0.43	16.16	84	6.78	0.25	2.75
0954	6.59	0.134	17.3	0.30	16.15	90	6.78	0.25	4.00
0959	6.55	0.134	11.2	0.14	16.07	97	6.78	0.25	5.25
1004	6.53	0.134	8.3	0.09	15.87	106	6.78	0.25	6.50
1009	6.51	0.131	7.8	0.08	15.84	111	6.78	0.25	7.75
1014	6.48	0.134	7.6	0.07	15.86	121	6.78	0.25	9.00
1019	6.42	0.131	7.4	0.08	15.85	131	6.78	0.25	10.25
1024	6.22	0.137	7.5	0.22	15.87	157	6.78	0.25	11.50
1029	6.01	0.138	6.1	0.74	15.84	188	6.78	0.25	12.75
1034	5.94	0.136	4.4	0.91	15.79	203	6.78	0.25	14.00
1039	5.91	0.135	3.4	1.07	15.84	208	6.78	0.25	15.25
1044	5.91	0.132	3.0	1.07	15.99	211	6.78	0.25	16.50
1049	5.90	0.133	2.3	1.12	16.03	213	6.78	0.25	17.75

Total Quantity of Water Removed (gal):		Sampling Time:	1049
Samplers:	LBL	Split Sample With:	N/A
Sampling Date:	11/14/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

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

SEDIMENT SAMPLE LOG

Coordinates: Northing: — Easting: —
Surface Water Elevation: —
Reference Elevation:
Reference Description: Historical Hot Spot

Job. No.	Client: NYSDEC
160251S	Project: DZUS Fastener

Location

Sampling Location Description: Willetts Creek

Sample Location ID: SD-01

Sheet 1 of 1

Sample Method: SCOOP
Depth of Water Body: 1 ft
Width of Water Body: 18 ft
Water Body Location W. Islip, NY

Sampling Date/Time	Start	Finish
DATE	11/13/23	11/13/23
TIME	1345	1345

Surface Conditions:
Weather: 47°F, sunny

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment Water
1334	5.86	0.302	0.0	1.88	15.04	82	clear, not turbid, some floating OM, slow moving
							Soil/sed desc: vel graded brown, F-C sand, some organic material,
							trace silt (fine), wet, no stain, no odor. PID = 0.0 ppm

Total Quantity of Water Removed (gal): N/A
Samplers: LBZ
Sampling Date: 11/13/23

Sampling Time: 1345
Split Sample With: FD-01
Sample Type: Grab

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

SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation: —
Reference Elevation: —
Reference Description: ~25' north of Burling Intersection

Job. No.	Client: NYSDEC Project: Dzus Fastener	Location
Sampling Location Description: Willetts Creek		Sample Location ID: SD-12
Sample Method: Scoop		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start: DATE 11/13/23, TIME 1300
Water Body Location W. Islip, NY		Finish: DATE 11/13/23, TIME 1300

Surface Conditions: clear, not turbid, slow moving
Weather: 47°F, sunny

Water Quality Parameters							Description of Sediment Water
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	
12:37	5.89	0.312	0.0	9.41	15.11	142	clear, not turbid, some floating organic matter, slow moving
							soil / sed desc.
							Brown well graded F-C sand, well graded F-C sub-rounded gravel, trace F silt, wet,
							no staining, no odor, PID = 0.0 ppm

Total Quantity of Water Removed (gal): N/A
Samplers: LPZ
Sampling Date: 11/13/23

Sampling Time: 13:00
Split Sample With: MS/MSD
Sample Type: Grab

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

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation: —
Reference Elevation: —
Reference Description: Historical Hot Spot

Job. No.	Client: NYSDEC	Location
160515	Project: DZUS Fastener	
Sampling Location Description: Willetts Creek		Sample Location ID: SW-01
Sample Method: Pump		Sheet 1 of 1
Depth of Water Body: 1 ft		Sampling Date/Time
Width of Water Body: 18 ft		Start / Finish
Water Body Location W. Islip, NY		DATE 11/13 / DATE 11/13
		TIME 1340 / TIME 1340

Surface Conditions: Clear, not turbid, slow moving
Weather: 47°F, sunny

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
1334	5.86	0.302	0.0	1.88	15.04	82	clear, not turbid, some floating O.M., slow moving

Total Quantity of Water Removed (gal): 1.0 L
Samplers: LBL
Sampling Date: 11/13/23

Sampling Time: 13:40
Split Sample With: FD-01
Sample Type: Grab

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

SURFACE WATER SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation: —
Reference Elevation: —
Reference Description: ~25' north of Burking La footbridge

Job. No.	Client: NYSDEC	Location
16025I5	Project: DZus Fastener	
Sampling Location Description: Willetts Creek		Sample Location ID: SW-12
Sample Method: pump		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location: Islip, NY		DATE 11/13 / DATE 11/13
		TIME 12:40 / TIME 12:40

Surface Conditions: clear, not turbid, slow moving
Weather: 47°F, sunny

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
12:37	5.89	0.312	0.0	9.41	15.11	142	clear, not turbid, some floating organic matter, slow moving

Total Quantity of Water Removed (gal): 1.5 L
Samplers: JBL
Sampling Date: 11/13

Sampling Time: 12:40
Split Sample With: MS/MSD
Sample Type: Grab

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Appendix B

Site Inspection Forms

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MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-1			Date: 01/17/23
Site: DZUS (7-11 parking lot)		Project No.: 1602515	
N:	E:	Inspector: LBL	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☐	☐	☐	☒
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☐	☐	☒	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK (LBL)
1. Condition of protective casing or well box.	OK Good
2. Condition of cement pad surrounding protective casing.	Good
3. Absence of depressions or standing water around casing.	*
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	*
6. Condition of dedicated sampling equipment (if present).	N/A

Comments:

* - standing water in casing
- no markings to indicate well #
- no paint on casing or guards
- no lock

Signature

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-2			Date: 01/17/23
Site: DZUS (7-11 parking lot)		Project No.: 1602515	
N:	E:	Inspector: LBL	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☐	☐	☐	☒
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	Good
2. Condition of cement pad surrounding protective casing.	Good
3. Absence of depressions or standing water around casing.	Good
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	*
6. Condition of dedicated sampling equipment (if present).	(LBL) * N/A

Comments:

* - no markings to indicate well #
- no paint on casing or guards
- no lock

Signature

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-3		Date: 01/17/23	
Site: Zeus (Dev. Area/Lot)		Project No.: 1602515	
N:	E:	Inspector: LBL	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☐	☒ (LBL)	☐	☒
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☐	☐	☐	☒
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☐	☐	☐	☒						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	Good
2. Condition of cement pad surrounding protective casing.	Good
3. Absence of depressions or standing water around casing.	Good
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	Good
6. Condition of dedicated sampling equipment (if present).	*

Comments: * Well left as stick up b/c area is actively being developed.
No label to ID well #, ~~NO~~ (BL)

Signature

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-9			Date: 01/25/23
Site: Zeus (Dev. Area/Lot)		Project No.: 160215	
N:	E:	Inspector: LBL	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☐	☐	☐	☒
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☐	☐	☐	☒						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	*
2. Condition of cement pad surrounding protective casing.	Good
3. Absence of depressions or standing water around casing.	Good
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	Good
6. Condition of dedicated sampling equipment (if present).	N/A

Comments:

* well was installed as stick up and will be left that way until developmental activities at the sit are complete

Signature

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-9B			Date: 01/17/23
Site: Zeus (Dev. Area/Lot)		Project No.: 1602515	
N:	E:	Inspector: LBC	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☑	☐	☐	Lock	☐	☐	☐	☐	☑
Well Pad	☐	☑	☐	☐	☐	Gasket	☐	☑	☐	☐	☐
Well Cover	☐	☑	☐	☐	☐	Well Cap	☐	☑	☐	☐	☐
Bolts	☐	☐	☐	☐	☑						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	*
2. Condition of cement pad surrounding protective casing.	Good
3. Absence of depressions or standing water around casing.	Good
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	Good
6. Condition of dedicated sampling equipment (if present).	N/A

Comments:

* well was installed as a stick up and will be left that way until developmental activities at the site are complete

Signature

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-13A		Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033
N:	E:	Inspector: H. Young

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs label on outer cover + inner

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-13B		Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033
N:	E:	Inspector: H.Young

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☒	☐	☐	☐	☐	Gasket	☐	☐	☐	☒	☐
Well Cover	☐	☐	☐	☒	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	*
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	*
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Protective casing chipped - allows water into well casing.
Standing water created puddle + filled well cover with water.
Needs label on outer cover + inner

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-15A			Date: 1/17/23
Site: Dris Fasteners		Project No.: 150233	
N:	E:	Inspector: H. Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs label on outer + inner cover

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-15B		Date: 1/17/23
Site: Dzus Fasteners		Project No.: 150233
N:	E:	Inspector: H Young

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☐	☒	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs new bolts + label outer + inner — Replaced during inspection

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-17			Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033	
N:	E:	Inspector: H. Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☒						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	✓ *
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Stick-up. Needs outer & inner label

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-18			Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033	
N:	E:	Inspector: H. Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:
Needs inner + outer label

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-22A			Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033	
N:	E:	Inspector: H.Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☒	☒	☐	☐	Lock	☐	☑	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☑	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs label on inner + outer

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-22B			Date: 1/7/23
Site: Dzus Fasteners		Project No.: 152033	
N:	E:	Inspector: H.Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs outer label

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-23A		Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033
N:	E:	Inspector: H. Young

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs label on outer cover + inner

Signature Haley Young

MONITORING WELL INTEGERITY CHECKLIST

Well ID: MW-23B			Date: 1/17/23
Site: Dzus Fasteners		Project No.: 152033	
N:	E:	Inspector: H. Young	

CONDITION OF WELL

	Old	New	Missing	Replace	Other		Old	New	Missing	Replace	Other
Well ID	☐	☐	☒	☐	☐	Lock	☐	☒	☐	☐	☐
Well Pad	☐	☒	☐	☐	☐	Gasket	☐	☒	☐	☐	☐
Well Cover	☐	☒	☐	☐	☐	Well Cap	☐	☒	☐	☐	☐
Bolts	☐	☒	☐	☐	☐						

Indicate with a check mark under the OK column if satisfactory, if not indicate with an asterisk and provide note and action required in Comment section at bottom of form.

	OK
1. Condition of protective casing or well box.	✓
2. Condition of cement pad surrounding protective casing.	✓
3. Absence of depressions or standing water around casing.	✓
4. Legibility of markings to indicate well number (interior and exterior).	*
5. Condition of painting on casing and guards.	✓
6. Condition of dedicated sampling equipment (if present).	✓

Comments:

Needs label on outer cover + inner

Signature Haley Young

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Appendix C

Laboratory Analytical Report

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 10, 2023

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: W. Islip, NY
Client Job Number:
Project Number: 152033
Laboratory Work Order Number: 23A2004

Enclosed are results of analyses for samples as received by the laboratory on January 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 2/10/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23A2004

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: W. Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-MW-1-0123	23A2004-01	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-2-0123	23A2004-02	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-3-0123	23A2004-03	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-9-0123	23A2004-04	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-9B-0123	23A2004-05	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-13A-0123	23A2004-06	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-13B-0123	23A2004-07	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-15A-0123	23A2004-08	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-17-0123	23A2004-09	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-18-0123	23A2004-10	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-15B-0123	23A2004-11	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-22A-0123	23A2004-12	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-22B-0123	23A2004-13	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-23A-0123	23A2004-14	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-MW-23B-0123	23A2004-15	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-SW-05-0123	23A2004-16	Water		SW-846 6010	
				SW-846 6010D	
152033-SM-SW-06-0123	23A2004-17	Water		SW-846 6010	
				SW-846 6010D	
152033-SM-SW-07-0123	23A2004-18	Water		SW-846 6010	
				SW-846 6010D	
152033-SM-SW-08-0123	23A2004-19	Water		SW-846 6010	
				SW-846 6010D	
152033-SM-SD-05-0123	23A2004-23	Product/Solid		SM 2540G	
				SW-846 6010D	

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 2/10/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23A2004

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: W. Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-SD-06-0123	23A2004-24	Product/Solid		SM 2540G	
				SW-846 6010D	
152033-SM-SD-07-0123	23A2004-25	Product/Solid		SM 2540G	
				SW-846 6010D	
152033-SM-SD-08-0123	23A2004-26	Product/Solid		SM 2540G	
				SW-846 6010D	
152033-SM-SD-FD-01172023	23A2004-30	Product/Solid		SM 2540G	
				SW-846 6010D	
152033-SM-SW-FD-01172023	23A2004-31	Ground Water		SW-846 6010	
				SW-846 6010D	
152033-SM-MW-FD-01182023	23A2004-32	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SM-RB-01172023	23A2004-33	Water		SW-846 6010D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010D

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium

23A2004-05[152033-SM-MW-9B-0123], B329350-MS1, B329350-MSD1

Sodium

23A2004-05[152033-SM-MW-9B-0123], B329350-MS1, B329350-MSD1

MS-22

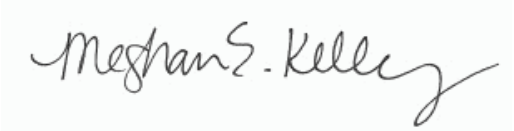
Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aluminum

B329350-MSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-1-0123 | Sampled: 1/17/2023 15:45

Sample ID: 23A2004-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.27	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Barium	0.013	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:54	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Calcium	6.1	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Copper	0.022	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:54	NC
Iron	0.44	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Magnesium	1.1	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Manganese	0.13	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 13:46	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Potassium	1.4	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Sodium	12	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH
Zinc	0.016	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:52	MJH

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Project Location: W. Islip, NY
Sample Description:
Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-1-0123
Sampled: 1/17/2023 15:45

Sample ID: 23A2004-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Barium	0.015	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:27	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Cadmium	0.00095	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:27	NC
Calcium	14	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Copper	0.025	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:43	ATP
Iron	0.065	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Magnesium	3.0	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:43	ATP
Manganese	0.011	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:20	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Potassium	1.1	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:27	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Sodium	21	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:27	NC
Zinc	0.60	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:43	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-2-0123 | Sampled: 1/17/2023 16:28

Sample ID: 23A2004-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.031	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Barium	0.017	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:02	NC
Cadmium	0.0016	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Calcium	14	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Copper	0.020	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:02	NC
Iron	0.40	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Magnesium	3.3	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Manganese	0.016	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 13:53	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Potassium	0.93	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Sodium	22	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH
Zinc	0.58	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/26/23 23:57	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-2-0123 | Sampled: 1/17/2023 16:28

Sample ID: 23A2004-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Barium	0.023	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:33	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Cadmium	0.0038	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:33	NC
Calcium	12	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Copper	0.025	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:51	ATP
Iron	0.030	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:33	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Magnesium	2.1	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:51	ATP
Manganese	ND	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:22	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Potassium	1.1	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:33	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Sodium	34	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:33	NC
Zinc	0.013	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:51	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-3-0123 | Sampled: 1/17/2023 14:50

Sample ID: 23A2004-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.024	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Barium	0.022	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:09	NC
Cadmium	0.0042	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Calcium	10	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:09	NC
Iron	0.031	0.050	0.019	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Magnesium	2.0	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Manganese	0.0024	0.010	0.0017	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 13:54	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Potassium	0.97	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Sodium	32	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH
Zinc	0.021	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:03	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-3-0123 | Sampled: 1/17/2023 14:50

Sample ID: 23A2004-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Barium	0.014	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:38	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Cadmium	0.0041	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Calcium	14	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Copper	0.0049	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 13:59	ATP
Iron	0.20	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Magnesium	2.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:59	ATP
Manganese	0.19	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:24	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Potassium	2.8	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Sodium	15	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:38	NC
Zinc	0.0052	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 13:59	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-9-0123 | Sampled: 1/17/2023 16:05

Sample ID: 23A2004-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1.0	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Barium	0.017	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:28	NC
Cadmium	0.0074	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Calcium	13	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Chromium	0.0029	0.010	0.0025	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Cobalt	0.0015	0.010	0.0014	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:28	NC
Iron	1.3	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Magnesium	2.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Manganese	0.19	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 13:56	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Potassium	2.7	2.0	0.30	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:28	NC
Sodium	14	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH
Zinc	0.019	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:21	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-9-0123 | Sampled: 1/17/2023 16:05

Sample ID: 23A2004-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Antimony	0.013	0.050	0.0089	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:44	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Barium	0.029	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:44	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Cadmium	0.013	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Calcium	35	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Copper	0.013	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:04	ATP
Iron	0.069	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Magnesium	5.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:04	ATP
Manganese	0.041	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:26	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Potassium	2.1	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Sodium	21	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:44	NC
Zinc	0.0073	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:04	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-9B-0123 | Sampled: 1/17/2023 15:05

Sample ID: 23A2004-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.11	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Barium	0.029	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:48	NC
Cadmium	0.013	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Calcium	33	0.50	0.11	mg/L	1	MS-19	SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:48	NC
Iron	0.19	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Magnesium	1.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:48	NC
Manganese	0.040	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 13:58	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Potassium	1.9	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 13:48	NC
Sodium	20	2.0	0.53	mg/L	1	MS-19	SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH
Zinc	0.014	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:26	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-9B-0123 | Sampled: 1/17/2023 15:05

Sample ID: 23A2004-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Barium	0.012	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:22	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Calcium	7.1	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Copper	0.0058	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 13:35	ATP
Iron	0.070	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Magnesium	1.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 13:35	ATP
Manganese	0.12	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:28	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Potassium	1.6	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:22	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Sodium	12	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:22	NC
Zinc	0.0062	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 13:35	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-13A-0123 | Sampled: 1/18/2023 11:42

Sample ID: 23A2004-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.027	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Barium	0.023	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:34	NC
Cadmium	0.43	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Calcium	18	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Cobalt	0.0027	0.010	0.0014	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:34	NC
Iron	1.4	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Magnesium	3.7	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Manganese	0.24	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:00	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Potassium	2.2	2.0	0.30	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:34	NC
Sodium	38	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH
Zinc	0.015	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:32	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-13A-0123 | Sampled: 1/18/2023 11:42

Sample ID: 23A2004-06

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Barium	0.022	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:49	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Cadmium	0.42	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Calcium	19	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Copper	0.0064	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:27	ATP
Iron	0.46	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Magnesium	3.6	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:27	ATP
Manganese	0.18	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:29	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Potassium	2.3	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Sodium	38	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 0:49	NC
Vanadium	0.0038	0.010	0.0031	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 0:49	NC
Zinc	0.0065	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:27	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-13B-0123 | Sampled: 1/18/2023 11:17

Sample ID: 23A2004-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.030	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Barium	0.026	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:40	NC
Cadmium	0.00099	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Calcium	5.8	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Chromium	0.022	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Copper	0.0038	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/21/23	1/29/23 14:40	NC
Iron	0.13	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Magnesium	0.93	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Manganese	0.011	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:02	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Potassium	1.4	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:40	NC
Sodium	15	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH
Zinc	0.012	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:37	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-13B-0123 | Sampled: 1/18/2023 11:17

Sample ID: 23A2004-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Barium	0.027	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:06	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Calcium	6.2	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Chromium	0.020	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Copper	0.0053	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:34	ATP
Iron	0.035	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:06	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Magnesium	0.97	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:34	ATP
Manganese	0.0018	0.010	0.0017	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:06	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:31	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Potassium	1.4	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:06	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Sodium	16	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:06	NC
Zinc	0.0087	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:06	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-15A-0123 | Sampled: 1/18/2023 10:22

Sample ID: 23A2004-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.021	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Barium	0.018	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:46	NC
Cadmium	0.018	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Calcium	16	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Chromium	0.0041	0.010	0.0025	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Copper	0.0066	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/21/23	1/29/23 14:46	NC
Iron	0.041	0.050	0.019	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Magnesium	2.1	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Manganese	0.25	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:03	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Potassium	2.2	2.0	0.30	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:46	NC
Sodium	31	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH
Zinc	0.012	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:43	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-15A-0123 | Sampled: 1/18/2023 10:22

Sample ID: 23A2004-08

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Barium	0.015	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:11	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Cadmium	0.0017	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:11	NC
Calcium	17	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Chromium	0.0038	0.010	0.0025	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:11	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Copper	0.0044	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:42	ATP
Iron	0.042	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:11	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Magnesium	2.1	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:42	ATP
Manganese	ND	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:52	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Potassium	2.3	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Sodium	31	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:11	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-17-0123 | Sampled: 1/18/2023 15:05

Sample ID: 23A2004-09

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.14	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Barium	0.031	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:54	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Calcium	34	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:54	NC
Iron	0.41	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Magnesium	9.8	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Manganese	0.18	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:05	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Potassium	0.98	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:54	NC
Sodium	7.5	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH
Zinc	0.027	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:48	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-17-0123 | Sampled: 1/18/2023 15:05

Sample ID: 23A2004-09

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.033	0.050	0.015	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Antimony	0.014	0.050	0.0089	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Barium	0.031	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Calcium	37	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Copper	0.0050	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 14:48	ATP
Iron	0.10	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Magnesium	10	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 14:48	ATP
Manganese	0.17	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:54	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Potassium	1.1	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Selenium	0.012	0.050	0.011	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Sodium	7.7	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC
Vanadium	0.0048	0.010	0.0031	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:17	NC
Zinc	0.016	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:17	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-18-0123 | Sampled: 1/18/2023 16:10

Sample ID: 23A2004-10

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.023	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Barium	0.014	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:59	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Calcium	17	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:59	NC
Iron	0.022	0.050	0.019	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Magnesium	2.3	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Manganese	0.11	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:13	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Potassium	1.8	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 14:59	NC
Sodium	13	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH
Zinc	0.012	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:54	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-18-0123 | Sampled: 1/18/2023 16:10

Sample ID: 23A2004-10

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Barium	0.011	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:22	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Calcium	18	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:18	ATP
Iron	0.030	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:22	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Magnesium	2.3	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:18	ATP
Manganese	ND	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:55	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Potassium	1.9	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:22	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Sodium	13	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:22	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-15B-0123 | Sampled: 1/18/2023 10:24

Sample ID: 23A2004-11

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Barium	0.041	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:05	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Calcium	10	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:05	NC
Iron	1.2	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Magnesium	4.4	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Manganese	0.071	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:14	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Potassium	1.1	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:05	NC
Sodium	34	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH
Zinc	0.021	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 0:59	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-15B-0123 | Sampled: 1/18/2023 10:24

Sample ID: 23A2004-11

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Barium	0.042	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:28	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Calcium	11	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Copper	0.0040	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 15:25	ATP
Iron	0.075	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Magnesium	4.5	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:25	ATP
Manganese	0.073	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:57	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Potassium	1.3	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:28	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Sodium	35	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC
Zinc	0.015	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:28	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-22A-0123 | Sampled: 1/18/2023 09:15

Sample ID: 23A2004-12

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Barium	0.014	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:11	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Calcium	36	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:11	NC
Iron	2.0	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Magnesium	5.5	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Manganese	0.35	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:16	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Potassium	0.71	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:11	NC
Sodium	21	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH
Zinc	0.017	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:05	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-22A-0123 | Sampled: 1/18/2023 09:15

Sample ID: 23A2004-12

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Antimony	0.014	0.050	0.0089	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:33	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Barium	0.015	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:33	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Calcium	39	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:31	ATP
Iron	2.0	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Magnesium	5.8	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:31	ATP
Manganese	0.37	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 14:59	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Potassium	0.80	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:33	NC
Selenium	0.016	0.050	0.011	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:33	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Sodium	21	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC
Vanadium	0.0038	0.010	0.0031	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:33	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:33	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-22B-0123 | Sampled: 1/18/2023 09:15

Sample ID: 23A2004-13

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Barium	0.030	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:17	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Calcium	23	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Cobalt	0.0018	0.010	0.0014	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:17	NC
Iron	0.67	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Magnesium	3.9	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Manganese	0.50	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:22	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Potassium	3.1	2.0	0.30	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:17	NC
Sodium	19	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:10	MJH
Zinc	0.0078	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:10	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-22B-0123 | Sampled: 1/18/2023 09:15

Sample ID: 23A2004-13

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Barium	0.028	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:39	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Calcium	24	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:36	ATP
Iron	0.029	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:39	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Magnesium	4.0	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 15:36	ATP
Manganese	0.41	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 15:01	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Potassium	3.2	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Sodium	20	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:39	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-23A-0123 | Sampled: 1/18/2023 13:28

Sample ID: 23A2004-14

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.17	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Barium	0.021	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:23	NC
Cadmium	0.0051	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Calcium	28	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Copper	0.0073	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/21/23	1/29/23 15:23	NC
Iron	1.5	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Magnesium	7.6	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Manganese	0.10	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:24	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Potassium	3.7	2.0	0.30	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:23	NC
Sodium	67	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH
Zinc	0.011	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:28	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-23A-0123 | Sampled: 1/18/2023 13:28

Sample ID: 23A2004-14

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.071	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Antimony	0.011	0.050	0.0089	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:44	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Barium	0.021	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:44	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Calcium	30	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Copper	0.0041	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 16:11	ATP
Iron	1.2	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Magnesium	8.2	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 16:11	ATP
Manganese	0.10	0.010	0.0017	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 15:03	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Potassium	3.7	2.0	0.30	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Selenium	0.012	0.050	0.011	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:44	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Sodium	67	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC
Vanadium	0.0056	0.010	0.0031	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:44	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:44	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-23B-0123 | Sampled: 1/18/2023 13:27

Sample ID: 23A2004-15

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.085	0.050	0.015	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Barium	0.023	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:56	NC
Cadmium	0.0018	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Calcium	7.5	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Chromium	0.0046	0.010	0.0025	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Copper	0.0046	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/21/23	2/5/23 13:55	HNN
Iron	0.17	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Magnesium	1.5	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Manganese	0.012	0.010	0.0017	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:26	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Potassium	1.2	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 15:56	NC
Sodium	11	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH
Zinc	0.045	0.010	0.0042	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:34	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-23B-0123 | Sampled: 1/18/2023 13:27

Sample ID: 23A2004-15

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Barium	0.021	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:50	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Calcium	7.3	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Chromium	0.0029	0.010	0.0025	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:50	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Copper	0.0056	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 16:16	ATP
Iron	0.036	0.050	0.019	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:50	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Magnesium	1.6	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 16:16	ATP
Manganese	0.0069	0.010	0.0017	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:50	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 15:05	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Potassium	1.4	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:50	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Sodium	12	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC
Zinc	0.015	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:50	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SW-05-0123 | Sampled: 1/18/2023 10:20

Sample ID: 23A2004-16

Sample Matrix: Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:39	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:39	MJH
Hardness	73	1.4		mg/L	1		SW-846 6010	1/21/23	1/25/23 19:39	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SW-06-0123 | Sampled: 1/17/2023 09:41

Sample ID: 23A2004-17

Sample Matrix: Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.019	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:44	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:44	MJH
Hardness	65	1.4		mg/L	1		SW-846 6010	1/21/23	1/25/23 19:44	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SW-07-0123 | Sampled: 1/17/2023 09:08

Sample ID: 23A2004-18

Sample Matrix: Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.010	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:50	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:50	MJH
Hardness	60	1.4		mg/L	1		SW-846 6010	1/21/23	1/25/23 19:50	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SW-08-0123 | Sampled: 1/17/2023 08:40

Sample ID: 23A2004-19

Sample Matrix: Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0074	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:05	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:05	MJH
Hardness	58	1.4		mg/L	1		SW-846 6010	1/21/23	1/25/23 19:05	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-05-0123 | Sampled: 1/17/2023 10:20

Sample ID: 23A2004-23

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	4.5	0.38	0.12	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:34	ATP
Chromium	3.1	0.76	0.24	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:34	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-05-0123 | Sampled: 1/17/2023 10:20

Sample ID: 23A2004-23

Sample Matrix: Product/Solid

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2			% Wt	1		SM 2540G	1/24/23	1/24/23 17:56	AMZ

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-06-0123 | Sampled: 1/17/2023 09:41

Sample ID: 23A2004-24

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	35	0.48	0.14	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:41	ATP
Chromium	20	0.95	0.30	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:41	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-06-0123 | Sampled: 1/17/2023 09:41

Sample ID: 23A2004-24

Sample Matrix: Product/Solid

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.6			% Wt	1		SM 2540G	1/24/23	1/24/23 17:56	AMZ

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-07-0123 | Sampled: 1/17/2023 09:08

Sample ID: 23A2004-25

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	2.6	0.39	0.12	mg/Kg dry	1		SW-846 6010D	1/23/23	1/24/23 21:57	ATP
Chromium	4.6	0.78	0.24	mg/Kg dry	1		SW-846 6010D	1/23/23	1/24/23 21:57	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-07-0123 | Sampled: 1/17/2023 09:08

Sample ID: 23A2004-25

Sample Matrix: Product/Solid

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4			% Wt	1		SM 2540G	1/24/23	1/24/23 17:56	AMZ

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-08-0123 | Sampled: 1/17/2023 08:40

Sample ID: 23A2004-26

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	6.3	0.44	0.13	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:48	ATP
Chromium	5.0	0.88	0.27	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:48	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-08-0123 | Sampled: 1/17/2023 08:40

Sample ID: 23A2004-26

Sample Matrix: Product/Solid

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.1			% Wt	1		SM 2540G	1/24/23	1/24/23 17:56	AMZ

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-FD-01172023 | Sampled: 1/17/2023 00:00

Sample ID: 23A2004-30

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.44	0.41	0.12	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:55	ATP
Chromium	4.7	0.81	0.25	mg/Kg dry	1		SW-846 6010D	1/21/23	1/30/23 23:55	ATP

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SD-FD-01172023 | Sampled: 1/17/2023 00:00

Sample ID: 23A2004-30

Sample Matrix: Product/Solid

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3			% Wt	1		SM 2540G	1/24/23	1/24/23 17:56	AMZ

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Project Location: W. Islip, NY Sample Description: Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-SW-FD-01172023 Sampled: 1/17/2023 00:00

Sample ID: 23A2004-31

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.021	0.0040	0.00080	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:55	MJH
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/25/23 19:55	MJH
Hardness	65	1.4		mg/L	1		SW-846 6010	1/21/23	1/25/23 19:55	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-FD-01182023 | Sampled: 1/18/2023 00:00

Sample ID: 23A2004-32

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.020	0.050	0.015	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Barium	0.026	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/21/23	1/29/23 16:02	NC
Cadmium	0.0010	0.0040	0.00080	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Calcium	5.6	0.50	0.11	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Chromium	0.021	0.010	0.0025	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	1/21/23	2/5/23 14:01	HNN
Iron	0.10	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Magnesium	0.92	0.050	0.0095	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Manganese	0.0099	0.010	0.0017	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/24/23	1/25/23 10:28	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Potassium	1.3	2.0	0.30	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/21/23	1/29/23 16:02	NC
Sodium	15	2.0	0.53	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/21/23	1/27/23 1:39	MJH
Zinc	0.0087	0.010	0.0042	mg/L	1	J	SW-846 6010D	1/21/23	1/27/23 1:39	MJH

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-MW-FD-01182023 | Sampled: 1/18/2023 00:00

Sample ID: 23A2004-32

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.015	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Antimony	ND	0.050	0.0089	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Arsenic	ND	0.010	0.0047	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Barium	0.027	0.050	0.0056	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:55	NC
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Calcium	6.1	0.50	0.11	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Chromium	0.020	0.010	0.0025	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Cobalt	ND	0.010	0.0014	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Copper	0.0047	0.010	0.0036	mg/L	1	J	SW-846 6010D	1/30/23	2/2/23 16:24	ATP
Iron	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Lead	ND	0.010	0.0030	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Magnesium	0.96	0.050	0.0095	mg/L	1		SW-846 6010D	1/30/23	2/2/23 16:24	ATP
Manganese	0.0020	0.010	0.0017	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:55	NC
Mercury	ND	0.00010	0.000040	mg/L	1		SW-846 7470A	1/23/23	1/24/23 15:06	AAJ
Nickel	ND	0.010	0.0088	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Potassium	1.5	2.0	0.30	mg/L	1	J	SW-846 6010D	1/30/23	1/31/23 1:55	NC
Selenium	ND	0.050	0.011	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Silver	ND	0.010	0.0032	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Sodium	16	2.0	0.53	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Vanadium	ND	0.010	0.0031	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	1/30/23	1/31/23 1:55	NC

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Project Location: W. Islip, NY | Sample Description: | Work Order: 23A2004

Date Received: 1/20/2023

Field Sample #: 152033-SM-RB-01172023 | Sampled: 1/17/2023 16:25

Sample ID: 23A2004-33

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.00080	mg/L	1		SW-846 6010D	1/25/23	1/27/23 21:29	ATP
Chromium	ND	0.010	0.0025	mg/L	1		SW-846 6010D	1/25/23	1/27/23 21:29	ATP

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Sample Extraction Data

Prep Method: % Solids **Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
23A2004-23 [152033-SM-SD-05-0123]	B329595	01/24/23
23A2004-24 [152033-SM-SD-06-0123]	B329595	01/24/23
23A2004-25 [152033-SM-SD-07-0123]	B329595	01/24/23
23A2004-26 [152033-SM-SD-08-0123]	B329595	01/24/23
23A2004-30 [152033-SM-SD-FD-01172023]	B329595	01/24/23

Prep Method: SW-846 3005A Dissolved **Analytical Method: SW-846 6010**

Lab Number [Field ID]	Batch	Initial [mL]	Date
23A2004-16 [152033-SM-SW-05-0123]	B329348	5.00	01/21/23
23A2004-17 [152033-SM-SW-06-0123]	B329348	5.00	01/21/23
23A2004-18 [152033-SM-SW-07-0123]	B329348	5.00	01/21/23
23A2004-19 [152033-SM-SW-08-0123]	B329348	5.00	01/21/23
23A2004-31 [152033-SM-SW-FD-01172023]	B329348	5.00	01/21/23

Prep Method: SW-846 3050B **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23A2004-23 [152033-SM-SD-05-0123]	B329357	1.56	50.0	01/21/23
23A2004-24 [152033-SM-SD-06-0123]	B329357	1.51	50.0	01/21/23
23A2004-26 [152033-SM-SD-08-0123]	B329357	1.53	50.0	01/21/23
23A2004-30 [152033-SM-SD-FD-01172023]	B329357	1.51	50.0	01/21/23

Prep Method: SW-846 3050B **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23A2004-25 [152033-SM-SD-07-0123]	B329437	1.52	50.0	01/23/23

Prep Method: SW-846 3005A Dissolved **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-16 [152033-SM-SW-05-0123]	B329348	5.00	5.00	01/21/23
23A2004-17 [152033-SM-SW-06-0123]	B329348	5.00	5.00	01/21/23
23A2004-18 [152033-SM-SW-07-0123]	B329348	5.00	5.00	01/21/23
23A2004-19 [152033-SM-SW-08-0123]	B329348	5.00	5.00	01/21/23
23A2004-31 [152033-SM-SW-FD-01172023]	B329348	5.00	5.00	01/21/23

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-01 [152033-SM-MW-1-0123]	B329350	50.0	50.0	01/21/23
23A2004-02 [152033-SM-MW-2-0123]	B329350	50.0	50.0	01/21/23
23A2004-03 [152033-SM-MW-3-0123]	B329350	50.0	50.0	01/21/23
23A2004-04 [152033-SM-MW-9-0123]	B329350	50.0	50.0	01/21/23
23A2004-05 [152033-SM-MW-9B-0123]	B329350	50.0	50.0	01/21/23
23A2004-06 [152033-SM-MW-13A-0123]	B329350	50.0	50.0	01/21/23
23A2004-07 [152033-SM-MW-13B-0123]	B329350	50.0	50.0	01/21/23
23A2004-08 [152033-SM-MW-15A-0123]	B329350	50.0	50.0	01/21/23
23A2004-09 [152033-SM-MW-17-0123]	B329350	50.0	50.0	01/21/23

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Sample Extraction Data

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-10 [152033-SM-MW-18-0123]	B329350	50.0	50.0	01/21/23
23A2004-11 [152033-SM-MW-15B-0123]	B329350	50.0	50.0	01/21/23
23A2004-12 [152033-SM-MW-22A-0123]	B329350	50.0	50.0	01/21/23
23A2004-13 [152033-SM-MW-22B-0123]	B329350	50.0	50.0	01/21/23
23A2004-14 [152033-SM-MW-23A-0123]	B329350	50.0	50.0	01/21/23
23A2004-15 [152033-SM-MW-23B-0123]	B329350	50.0	50.0	01/21/23
23A2004-32 [152033-SM-MW-FD-01182023]	B329350	50.0	50.0	01/21/23

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-33 [152033-SM-RB-01172023]	B329674	50.0	50.0	01/25/23

Prep Method: SW-846 3005A Dissolved **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-01RE1 [152033-SM-MW-1-0123]	B330019	50.0	50.0	01/30/23
23A2004-02RE1 [152033-SM-MW-2-0123]	B330019	50.0	50.0	01/30/23
23A2004-03RE1 [152033-SM-MW-3-0123]	B330019	50.0	50.0	01/30/23
23A2004-04RE1 [152033-SM-MW-9-0123]	B330019	50.0	50.0	01/30/23
23A2004-05RE1 [152033-SM-MW-9B-0123]	B330019	50.0	50.0	01/30/23
23A2004-06RE1 [152033-SM-MW-13A-0123]	B330019	50.0	50.0	01/30/23
23A2004-07RE1 [152033-SM-MW-13B-0123]	B330019	50.0	50.0	01/30/23
23A2004-08RE1 [152033-SM-MW-15A-0123]	B330019	50.0	50.0	01/30/23
23A2004-09RE1 [152033-SM-MW-17-0123]	B330019	50.0	50.0	01/30/23
23A2004-10RE1 [152033-SM-MW-18-0123]	B330019	50.0	50.0	01/30/23
23A2004-11RE1 [152033-SM-MW-15B-0123]	B330019	50.0	50.0	01/30/23
23A2004-12RE1 [152033-SM-MW-22A-0123]	B330019	50.0	50.0	01/30/23
23A2004-13RE1 [152033-SM-MW-22B-0123]	B330019	50.0	50.0	01/30/23
23A2004-14RE1 [152033-SM-MW-23A-0123]	B330019	50.0	50.0	01/30/23
23A2004-15RE1 [152033-SM-MW-23B-0123]	B330019	50.0	50.0	01/30/23
23A2004-32RE1 [152033-SM-MW-FD-01182023]	B330019	50.0	50.0	01/30/23

Prep Method: SW-846 7470A Prep **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-10 [152033-SM-MW-18-0123]	B329149	10.0	10.0	01/24/23
23A2004-11 [152033-SM-MW-15B-0123]	B329149	10.0	10.0	01/24/23
23A2004-12 [152033-SM-MW-22A-0123]	B329149	10.0	10.0	01/24/23
23A2004-13 [152033-SM-MW-22B-0123]	B329149	10.0	10.0	01/24/23
23A2004-14 [152033-SM-MW-23A-0123]	B329149	10.0	10.0	01/24/23
23A2004-15 [152033-SM-MW-23B-0123]	B329149	10.0	10.0	01/24/23
23A2004-32 [152033-SM-MW-FD-01182023]	B329149	10.0	10.0	01/24/23

Prep Method: SW-846 7470A Prep **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-01 [152033-SM-MW-1-0123]	B329388	10.0	10.0	01/23/23
23A2004-02 [152033-SM-MW-2-0123]	B329388	10.0	10.0	01/23/23
23A2004-03 [152033-SM-MW-3-0123]	B329388	10.0	10.0	01/23/23

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Sample Extraction Data

Prep Method: SW-846 7470A Prep **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-04 [152033-SM-MW-9-0123]	B329388	10.0	10.0	01/23/23
23A2004-05 [152033-SM-MW-9B-0123]	B329388	10.0	10.0	01/23/23
23A2004-06 [152033-SM-MW-13A-0123]	B329388	10.0	10.0	01/23/23
23A2004-07 [152033-SM-MW-13B-0123]	B329388	10.0	10.0	01/23/23
23A2004-08 [152033-SM-MW-15A-0123]	B329388	10.0	10.0	01/23/23
23A2004-09 [152033-SM-MW-17-0123]	B329388	10.0	10.0	01/23/23

Prep Method: SW-846 7470A Dissolved **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23A2004-01 [152033-SM-MW-1-0123]	B329389	10.0	10.0	01/23/23
23A2004-02 [152033-SM-MW-2-0123]	B329389	10.0	10.0	01/23/23
23A2004-03 [152033-SM-MW-3-0123]	B329389	10.0	10.0	01/23/23
23A2004-04 [152033-SM-MW-9-0123]	B329389	10.0	10.0	01/23/23
23A2004-05 [152033-SM-MW-9B-0123]	B329389	10.0	10.0	01/23/23
23A2004-06 [152033-SM-MW-13A-0123]	B329389	10.0	10.0	01/23/23
23A2004-07 [152033-SM-MW-13B-0123]	B329389	10.0	10.0	01/23/23
23A2004-08 [152033-SM-MW-15A-0123]	B329389	10.0	10.0	01/23/23
23A2004-09 [152033-SM-MW-17-0123]	B329389	10.0	10.0	01/23/23
23A2004-10 [152033-SM-MW-18-0123]	B329389	10.0	10.0	01/23/23
23A2004-11 [152033-SM-MW-15B-0123]	B329389	10.0	10.0	01/23/23
23A2004-12 [152033-SM-MW-22A-0123]	B329389	10.0	10.0	01/23/23
23A2004-13 [152033-SM-MW-22B-0123]	B329389	10.0	10.0	01/23/23
23A2004-14 [152033-SM-MW-23A-0123]	B329389	10.0	10.0	01/23/23
23A2004-15 [152033-SM-MW-23B-0123]	B329389	10.0	10.0	01/23/23
23A2004-32 [152033-SM-MW-FD-01182023]	B329389	10.0	10.0	01/23/23

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B329149 - SW-846 7470A Prep										
Blank (B329149-BLK1)				Prepared: 01/24/23 Analyzed: 01/25/23						
Mercury	ND	0.00010	mg/L							
LCS (B329149-BS1)				Prepared: 01/24/23 Analyzed: 01/25/23						
Mercury	0.00343	0.00010	mg/L	0.00402		85.2	80-120			
LCS Dup (B329149-BSD1)				Prepared: 01/24/23 Analyzed: 01/25/23						
Mercury	0.00409	0.00010	mg/L	0.00402		102	80-120	17.7	20	
Batch B329350 - SW-846 3005A										
Blank (B329350-BLK1)				Prepared: 01/21/23 Analyzed: 01/26/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B329350-BLK2)				Prepared: 01/21/23 Analyzed: 01/29/23						
Beryllium	ND	0.0040	mg/L							
Copper	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Blank (B329350-BLK3)				Prepared: 01/21/23 Analyzed: 02/05/23						
Zinc	ND	0.010	mg/L							
LCS (B329350-BS1)				Prepared: 01/21/23 Analyzed: 01/26/23						
Aluminum	0.479	0.050	mg/L	0.500		95.8	45.3-154.7			
Antimony	0.477	0.050	mg/L	0.500		95.4	80-120			
Arsenic	0.484	0.010	mg/L	0.500		96.8	80-120			
Barium	0.515	0.050	mg/L	0.500		103	80-120			
Cadmium	0.512	0.0040	mg/L	0.500		102	80-120			
Calcium	3.70	0.50	mg/L	4.00		92.4	80-120			
Chromium	0.508	0.010	mg/L	0.500		102	80-120			
Cobalt	0.506	0.010	mg/L	0.500		101	80-120			
Iron	3.89	0.050	mg/L	4.00		97.4	80-120			
Lead	0.510	0.010	mg/L	0.500		102	80-120			
Magnesium	3.93	0.050	mg/L	4.00		98.2	80-120			
Manganese	0.489	0.010	mg/L	0.500		97.9	80-120			
Nickel	0.518	0.010	mg/L	0.500		104	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B329350 - SW-846 3005A											
LCS (B329350-BS1)				Prepared: 01/21/23 Analyzed: 01/26/23							
Potassium	3.88	2.0	mg/L	4.00		97.0		80-120			
Selenium	0.538	0.050	mg/L	0.500		108		80-120			
Silver	0.539	0.010	mg/L	0.500		108		80-120			
Sodium	3.94	2.0	mg/L	4.00		98.4		80-120			
Thallium	0.488	0.050	mg/L	0.500		97.5		80-120			
Vanadium	0.505	0.010	mg/L	0.500		101		80-120			
Zinc	1.05	0.010	mg/L	1.00		105		80-120			
LCS (B329350-BS2)				Prepared: 01/21/23 Analyzed: 01/29/23							
Beryllium	0.546	0.0040	mg/L	0.500		109		80-120			
Copper	1.04	0.010	mg/L	1.00		104		80-120			
Magnesium	4.03	0.050	mg/L	4.00		101		80-120			
Silver	0.562	0.010	mg/L	0.500		112		80-120			
LCS Dup (B329350-BSD1)				Prepared: 01/21/23 Analyzed: 01/26/23							
Aluminum	0.486	0.050	mg/L	0.500		97.3		45.3-154.7	1.49	30	
Antimony	0.467	0.050	mg/L	0.500		93.5		80-120	2.07	20	
Arsenic	0.471	0.010	mg/L	0.500		94.1		80-120	2.80	20	
Barium	0.495	0.050	mg/L	0.500		99.1		80-120	3.94	20	
Cadmium	0.492	0.0040	mg/L	0.500		98.4		80-120	3.92	20	
Calcium	3.70	0.50	mg/L	4.00		92.5		80-120	0.148	20	
Chromium	0.491	0.010	mg/L	0.500		98.1		80-120	3.51	20	
Cobalt	0.487	0.010	mg/L	0.500		97.4		80-120	3.95	20	
Iron	3.88	0.050	mg/L	4.00		96.9		80-120	0.441	20	
Lead	0.496	0.010	mg/L	0.500		99.2		80-120	2.77	20	
Magnesium	3.93	0.050	mg/L	4.00		98.3		80-120	0.0595	20	
Manganese	0.489	0.010	mg/L	0.500		97.8		80-120	0.00552	20	
Nickel	0.500	0.010	mg/L	0.500		100		80-120	3.45	30	
Potassium	3.88	2.0	mg/L	4.00		97.0		80-120	0.00721	20	
Selenium	0.524	0.050	mg/L	0.500		105		80-120	2.64	20	
Silver	0.519	0.010	mg/L	0.500		104		80-120	3.71	20	
Sodium	3.94	2.0	mg/L	4.00		98.6		80-120	0.151	20	
Thallium	0.466	0.050	mg/L	0.500		93.1		80-120	4.61	20	
Vanadium	0.485	0.010	mg/L	0.500		96.9		80-120	4.15	20	
Zinc	1.01	0.010	mg/L	1.00		101		80-120	3.79	20	
LCS Dup (B329350-BSD2)				Prepared: 01/21/23 Analyzed: 01/29/23							
Beryllium	0.539	0.0040	mg/L	0.500		108		80-120	1.28	20	
Copper	1.03	0.010	mg/L	1.00		103		80-120	0.807	20	
Magnesium	3.98	0.050	mg/L	4.00		99.6		80-120	1.17	20	
Silver	0.562	0.010	mg/L	0.500		112		80-120	0.00865	20	
Matrix Spike (B329350-MS1)	**Source: 23A2004-05**			Prepared: 01/21/23 Analyzed: 01/26/23							
Aluminum	0.729	0.050	mg/L	0.500	0.114	123		75-125			
Antimony	0.483	0.050	mg/L	0.500	ND	96.6		75-125			
Arsenic	0.487	0.010	mg/L	0.500	ND	97.3		75-125			
Barium	0.521	0.050	mg/L	0.500	0.0286	98.4		75-125			
Cadmium	0.502	0.0040	mg/L	0.500	0.0134	97.7		75-125			
Calcium	9.80	0.50	mg/L	4.00	32.8	**-575**	*	75-125			MS-19
Chromium	0.499	0.010	mg/L	0.500	ND	99.8		75-125			
Cobalt	0.498	0.010	mg/L	0.500	ND	99.6		75-125			
Iron	4.26	0.050	mg/L	4.00	0.189	102		75-125			
Lead	0.500	0.010	mg/L	0.500	ND	100		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B329350 - SW-846 3005A											
Matrix Spike (B329350-MS1)	**Source: 23A2004-05**			Prepared: 01/21/23 Analyzed: 01/26/23							
Manganese	0.621	0.010	mg/L	0.500	0.0396	116		75-125			
Nickel	0.507	0.010	mg/L	0.500	ND	101		75-125			
Potassium	5.28	2.0	mg/L	4.00	1.91	84.2		75-125			
Selenium	0.540	0.050	mg/L	0.500	ND	108		75-125			
Silver	0.526	0.010	mg/L	0.500	ND	105		75-125			
Sodium	15.7	2.0	mg/L	4.00	19.8	**-103**	*	75-125			MS-19
Thallium	0.474	0.050	mg/L	0.500	ND	94.9		75-125			
Vanadium	0.499	0.010	mg/L	0.500	ND	99.8		75-125			
Zinc	1.04	0.010	mg/L	1.00	0.0139	103		75-125			
Matrix Spike (B329350-MS2)	**Source: 23A2004-05**			Prepared: 01/21/23 Analyzed: 01/29/23							
Beryllium	0.538	0.0040	mg/L	0.500	ND	108		75-125			
Copper	1.04	0.010	mg/L	1.00	ND	104		75-125			
Magnesium	5.11	0.050	mg/L	4.00	1.16	98.7		75-125			
Silver	0.562	0.010	mg/L	0.500	ND	112		75-125			
Matrix Spike Dup (B329350-MSD1)	**Source: 23A2004-05**			Prepared: 01/21/23 Analyzed: 01/26/23							
Aluminum	0.782	0.050	mg/L	0.500	0.114	**133**	*	75-125	6.95	20	MS-22
Antimony	0.473	0.050	mg/L	0.500	ND	94.7		75-125	1.96	20	
Arsenic	0.476	0.010	mg/L	0.500	ND	95.2		75-125	2.22	20	
Barium	0.506	0.050	mg/L	0.500	0.0286	95.5		75-125	2.84	20	
Cadmium	0.488	0.0040	mg/L	0.500	0.0134	95.0		75-125	2.80	20	
Calcium	9.47	0.50	mg/L	4.00	32.8	**-583**	*	75-125	3.40	20	MS-19
Chromium	0.488	0.010	mg/L	0.500	ND	97.5		75-125	2.32	20	
Cobalt	0.484	0.010	mg/L	0.500	ND	96.8		75-125	2.85	20	
Iron	4.22	0.050	mg/L	4.00	0.189	101		75-125	0.968	20	
Lead	0.489	0.010	mg/L	0.500	ND	97.9		75-125	2.17	20	
Manganese	0.607	0.010	mg/L	0.500	0.0396	114		75-125	2.17	20	
Nickel	0.496	0.010	mg/L	0.500	ND	99.2		75-125	2.24	20	
Potassium	5.29	2.0	mg/L	4.00	1.91	84.3		75-125	0.0822	20	
Selenium	0.524	0.050	mg/L	0.500	ND	105		75-125	3.07	20	
Silver	0.515	0.010	mg/L	0.500	ND	103		75-125	2.14	20	
Sodium	15.7	2.0	mg/L	4.00	19.8	**-104**	*	75-125	0.379	20	MS-19
Thallium	0.479	0.050	mg/L	0.500	ND	95.7		75-125	0.912	20	
Vanadium	0.485	0.010	mg/L	0.500	ND	97.0		75-125	2.82	20	
Zinc	1.01	0.010	mg/L	1.00	0.0139	99.8		75-125	2.96	20	
Matrix Spike Dup (B329350-MSD2)	**Source: 23A2004-05**			Prepared: 01/21/23 Analyzed: 01/29/23							
Beryllium	0.542	0.0040	mg/L	0.500	ND	108		75-125	0.640	20	
Copper	1.01	0.010	mg/L	1.00	ND	101		75-125	2.88	20	
Magnesium	5.11	0.050	mg/L	4.00	1.16	98.6		75-125	0.0948	20	
Silver	0.558	0.010	mg/L	0.500	ND	112		75-125	0.731	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B329357 - SW-846 3050B										
Blank (B329357-BLK1)				Prepared: 01/21/23 Analyzed: 01/30/23						
Cadmium	ND	0.32	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
LCS (B329357-BS1)				Prepared: 01/21/23 Analyzed: 01/30/23						
Cadmium	190	0.99	mg/Kg wet	196		97.1	82.1-118.4			
Chromium	99.3	2.0	mg/Kg wet	103		96.4	80.8-118.4			
LCS Dup (B329357-BSD1)				Prepared: 01/21/23 Analyzed: 01/30/23						
Cadmium	191	0.99	mg/Kg wet	196		97.7	82.1-118.4	0.651	20	
Chromium	99.4	2.0	mg/Kg wet	103		96.5	80.8-118.4	0.190	30	
Batch B329388 - SW-846 7470A Prep										
Blank (B329388-BLK1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	ND	0.00010	mg/L							
LCS (B329388-BS1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00448	0.00010	mg/L	0.00402		111	80-120			
LCS Dup (B329388-BSD1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00427	0.00010	mg/L	0.00402		106	80-120	4.91	20	
Matrix Spike (B329388-MS1)	**Source: 23A2004-05**			Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00432	0.00010	mg/L	0.00402	ND	107	75-125			
Matrix Spike Dup (B329388-MSD1)	**Source: 23A2004-05**			Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00440	0.00010	mg/L	0.00402	ND	109	75-125	1.92	20	
Batch B329437 - SW-846 3050B										
Blank (B329437-BLK1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Cadmium	ND	0.32	mg/Kg wet							
Chromium	ND	0.65	mg/Kg wet							
LCS (B329437-BS1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Cadmium	184	0.99	mg/Kg wet	196		93.9	82.1-118.4			
Chromium	100	2.0	mg/Kg wet	103		97.1	80.8-118.4			
LCS Dup (B329437-BSD1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Cadmium	186	1.0	mg/Kg wet	196		94.9	82.1-118.4	1.10	20	
Chromium	100	2.0	mg/Kg wet	103		97.6	80.8-118.4	0.495	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B329674 - SW-846 3005A										
Blank (B329674-BLK1)				Prepared: 01/25/23 Analyzed: 01/27/23						
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
LCS (B329674-BS1)				Prepared: 01/25/23 Analyzed: 01/27/23						
Cadmium	0.464	0.0040	mg/L	0.500		92.8	80-120			
Chromium	0.461	0.010	mg/L	0.500		92.2	80-120			
LCS Dup (B329674-BSD1)				Prepared: 01/25/23 Analyzed: 01/27/23						
Cadmium	0.486	0.0040	mg/L	0.500		97.2	80-120	4.66	20	
Chromium	0.484	0.010	mg/L	0.500		96.7	80-120	4.81	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B329348 - SW-846 3005A Dissolved										
Blank (B329348-BLK1)				Prepared: 01/21/23 Analyzed: 01/25/23						
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Hardness	ND	1.4	mg/L							
LCS (B329348-BS1)				Prepared: 01/21/23 Analyzed: 01/25/23						
Cadmium	2.06	0.0040	mg/L	2.00		103	80-120			
Chromium	2.09	0.010	mg/L	2.00		105	80-120			
Hardness	13	1.4	mg/L	13.2		98.5	80-120			
Matrix Spike (B329348-MS1)		**Source: 23A2004-19**		Prepared: 01/21/23 Analyzed: 01/25/23						
Cadmium	2.17	0.0041	mg/L	2.04	0.00737	106	75-125			
Chromium	2.12	0.010	mg/L	2.04	ND	104	75-125			
Hardness	160	1.4	mg/L	108	58	95.6	75-125			
Matrix Spike Dup (B329348-MSD1)		**Source: 23A2004-19**		Prepared: 01/21/23 Analyzed: 01/25/23						
Cadmium	2.16	0.0041	mg/L	2.04	0.00737	105	75-125	0.620	20	
Chromium	2.11	0.010	mg/L	2.04	ND	103	75-125	0.300	20	
Hardness	160	1.4	mg/L	108	58	93.7	75-125	1.25	20	
Batch B329389 - SW-846 7470A Dissolved										
Blank (B329389-BLK1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	ND	0.00010	mg/L							
LCS (B329389-BS1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00412	0.00010	mg/L	0.00402		103	80-120			
LCS Dup (B329389-BSD1)				Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00432	0.00010	mg/L	0.00402		107	80-120	4.66	20	
Matrix Spike (B329389-MS1)		**Source: 23A2004-05**		Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00425	0.00010	mg/L	0.00402	ND	106	75-125			
Matrix Spike Dup (B329389-MSD1)		**Source: 23A2004-05**		Prepared: 01/23/23 Analyzed: 01/24/23						
Mercury	0.00435	0.00010	mg/L	0.00402	ND	108	75-125	2.20	20	
Batch B330019 - SW-846 3005A Dissolved										
Blank (B330019-BLK1)				Prepared & Analyzed: 01/30/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B330019 - SW-846 3005A Dissolved										
Blank (B330019-BLK1)				Prepared & Analyzed: 01/30/23						
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B330019-BLK2)				Prepared: 01/30/23 Analyzed: 02/02/23						
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Zinc	0.0077	0.010	mg/L							J
Blank (B330019-BLK3)				Prepared: 01/30/23 Analyzed: 02/06/23						
Copper	ND	0.010	mg/L							
LCS (B330019-BS1)				Prepared & Analyzed: 01/30/23						
Aluminum	0.488	0.050	mg/L	0.500		97.6	80-120			
Antimony	0.504	0.050	mg/L	0.500		101	80-120			
Arsenic	0.491	0.010	mg/L	0.500		98.2	80-120			
Barium	0.518	0.050	mg/L	0.500		104	80-120			
Beryllium	0.517	0.0040	mg/L	0.500		103	80-120			
Cadmium	0.506	0.0040	mg/L	0.500		101	80-120			
Calcium	3.92	0.50	mg/L	4.00		98.1	80-120			
Chromium	0.509	0.010	mg/L	0.500		102	80-120			
Cobalt	0.513	0.010	mg/L	0.500		103	80-120			
Iron	4.10	0.050	mg/L	4.00		103	80-120			
Lead	0.516	0.010	mg/L	0.500		103	80-120			
Manganese	0.506	0.010	mg/L	0.500		101	80-120			
Nickel	0.518	0.010	mg/L	0.500		104	80-120			
Potassium	4.00	2.0	mg/L	4.00		100	80-120			
Selenium	0.514	0.050	mg/L	0.500		103	80-120			
Silver	0.541	0.010	mg/L	0.500		108	80-120			
Sodium	3.96	2.0	mg/L	4.00		99.1	80-120			
Thallium	0.491	0.050	mg/L	0.500		98.3	80-120			
Vanadium	0.506	0.010	mg/L	0.500		101	80-120			
LCS (B330019-BS2)				Prepared: 01/30/23 Analyzed: 02/02/23						
Copper	1.03	0.010	mg/L	1.00		103	80-120			
Magnesium	3.96	0.050	mg/L	4.00		99.0	80-120			
Zinc	1.04	0.010	mg/L	1.00		104	80-120			
LCS Dup (B330019-BSD1)				Prepared & Analyzed: 01/30/23						
Aluminum	0.494	0.050	mg/L	0.500		98.8	80-120	1.24	20	
Antimony	0.511	0.050	mg/L	0.500		102	80-120	1.54	20	
Arsenic	0.500	0.010	mg/L	0.500		100	80-120	1.89	20	
Barium	0.528	0.050	mg/L	0.500		106	80-120	1.78	20	
Beryllium	0.529	0.0040	mg/L	0.500		106	80-120	2.23	20	
Cadmium	0.516	0.0040	mg/L	0.500		103	80-120	1.94	20	
Calcium	4.00	0.50	mg/L	4.00		100	80-120	1.92	20	
Chromium	0.518	0.010	mg/L	0.500		104	80-120	1.71	20	
Cobalt	0.522	0.010	mg/L	0.500		104	80-120	1.63	20	
Iron	4.16	0.050	mg/L	4.00		104	80-120	1.44	20	
Lead	0.524	0.010	mg/L	0.500		105	80-120	1.58	20	
Manganese	0.513	0.010	mg/L	0.500		103	80-120	1.48	20	
Nickel	0.526	0.010	mg/L	0.500		105	80-120	1.45	20	
Potassium	4.02	2.0	mg/L	4.00		100	80-120	0.331	20	
Selenium	0.524	0.050	mg/L	0.500		105	80-120	1.95	20	
Silver	0.551	0.010	mg/L	0.500		110	80-120	1.74	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B330019 - SW-846 3005A Dissolved										
LCS Dup (B330019-BSD1)				Prepared & Analyzed: 01/30/23						
Sodium	3.98	2.0	mg/L	4.00		99.5	80-120	0.431	20	
Thallium	0.496	0.050	mg/L	0.500		99.2	80-120	0.947	20	
Vanadium	0.515	0.010	mg/L	0.500		103	80-120	1.64	20	
LCS Dup (B330019-BSD2)				Prepared: 01/30/23 Analyzed: 02/02/23						
Copper	1.03	0.010	mg/L	1.00		103	80-120	0.224	20	
Magnesium	3.85	0.050	mg/L	4.00		96.3	80-120	2.76	20	
Zinc	1.05	0.010	mg/L	1.00		105	80-120	1.25	20	
Matrix Spike (B330019-MS1)		**Source: 23A2004-05RE1**		Prepared & Analyzed: 01/30/23						
Aluminum	0.500	0.050	mg/L	0.500	ND	99.9	75-125			
Antimony	0.523	0.050	mg/L	0.500	ND	105	75-125			
Arsenic	0.509	0.010	mg/L	0.500	ND	102	75-125			
Barium	0.543	0.050	mg/L	0.500	0.0118	106	75-125			
Beryllium	0.526	0.0040	mg/L	0.500	ND	105	75-125			
Cadmium	0.519	0.0040	mg/L	0.500	ND	104	75-125			
Calcium	11.1	0.50	mg/L	4.00	7.13	99.5	75-125			
Chromium	0.523	0.010	mg/L	0.500	ND	105	75-125			
Cobalt	0.525	0.010	mg/L	0.500	ND	105	75-125			
Iron	4.20	0.050	mg/L	4.00	0.0695	103	75-125			
Lead	0.524	0.010	mg/L	0.500	ND	105	75-125			
Manganese	0.635	0.010	mg/L	0.500	0.124	102	75-125			
Nickel	0.531	0.010	mg/L	0.500	ND	106	75-125			
Potassium	5.53	2.0	mg/L	4.00	1.60	98.3	75-125			
Selenium	0.540	0.050	mg/L	0.500	ND	108	75-125			
Silver	0.553	0.010	mg/L	0.500	ND	111	75-125			
Sodium	16.1	2.0	mg/L	4.00	12.3	95.6	75-125			
Thallium	0.500	0.050	mg/L	0.500	ND	100	75-125			
Vanadium	0.521	0.010	mg/L	0.500	ND	104	75-125			
Matrix Spike (B330019-MS2)		**Source: 23A2004-05RE1**		Prepared: 01/30/23 Analyzed: 02/02/23						
Copper	1.04	0.010	mg/L	1.00	0.00582	103	75-125			
Magnesium	5.24	0.050	mg/L	4.00	1.20	101	75-125			
Zinc	1.06	0.010	mg/L	1.00	0.00615	105	75-125			
Matrix Spike Dup (B330019-MSD1)		**Source: 23A2004-05RE1**		Prepared: 01/30/23 Analyzed: 01/31/23						
Aluminum	0.503	0.050	mg/L	0.500	ND	101	75-125	0.731	20	
Antimony	0.518	0.050	mg/L	0.500	ND	104	75-125	1.03	20	
Arsenic	0.503	0.010	mg/L	0.500	ND	101	75-125	1.16	20	
Barium	0.536	0.050	mg/L	0.500	0.0118	105	75-125	1.35	20	
Beryllium	0.531	0.0040	mg/L	0.500	ND	106	75-125	0.886	20	
Cadmium	0.512	0.0040	mg/L	0.500	ND	102	75-125	1.42	20	
Calcium	11.2	0.50	mg/L	4.00	7.13	102	75-125	0.921	20	
Chromium	0.514	0.010	mg/L	0.500	ND	103	75-125	1.91	20	
Cobalt	0.517	0.010	mg/L	0.500	ND	103	75-125	1.49	20	
Iron	4.24	0.050	mg/L	4.00	0.0695	104	75-125	0.922	20	
Lead	0.521	0.010	mg/L	0.500	ND	104	75-125	0.533	20	
Manganese	0.641	0.010	mg/L	0.500	0.124	103	75-125	0.976	20	
Nickel	0.522	0.010	mg/L	0.500	ND	104	75-125	1.74	20	
Potassium	5.56	2.0	mg/L	4.00	1.60	98.9	75-125	0.432	20	
Selenium	0.534	0.050	mg/L	0.500	ND	107	75-125	1.06	20	
Silver	0.545	0.010	mg/L	0.500	ND	109	75-125	1.45	20	
Sodium	16.1	2.0	mg/L	4.00	12.3	94.5	75-125	0.277	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B330019 - SW-846 3005A Dissolved										
Matrix Spike Dup (B330019-MSD1)		**Source: 23A2004-05RE1**		Prepared: 01/30/23 Analyzed: 01/31/23						
Thallium	0.493	0.050	mg/L	0.500	ND	98.6	75-125	1.44	20	
Vanadium	0.513	0.010	mg/L	0.500	ND	103	75-125	1.54	20	
Matrix Spike Dup (B330019-MSD2)		**Source: 23A2004-05RE1**		Prepared: 01/30/23 Analyzed: 02/02/23						
Copper	1.02	0.010	mg/L	1.00	0.00582	101	75-125	1.75	20	
Magnesium	5.02	0.050	mg/L	4.00	1.20	95.6	75-125	4.12	20	
Zinc	1.04	0.010	mg/L	1.00	0.00615	104	75-125	1.20	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010 in Water	
Hardness	CT,MA,NH,NY
SW-846 6010D in Soil	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Aluminum	CT,NY,NH,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,NC,VA
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	MA,NY,CT,NH,NC,ME,VA
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,NC,VA
Calcium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,NC,ME,VA
Chromium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,NC,ME,VA
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,RI,NC,VA
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
Mercury	CT,NH,NY,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical®

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Fax: 612-607-6344

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:	EA Engineering
Address:	269 W Jefferson St Syracuse, NY
Phone:	(585) 322-2140
Project Name:	Dzus Fastener Co.
Project Location:	W. Islip NY
Project Number:	1602515/0004
Project Manager:	H. Williams
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	L. Backman-Lowe

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:
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Tal Metals (6010C)	Mercury (6010C)	Dissolved TAL Metals (6010C)	Dissolved Hg (6010C)
1	152033-SM-MW-1-0123	01/17/23	1545		X	GW		X	X	X	X
2	152033-SM-MW-2-0123	01/17/23	1628		X	GW		X	X	X	X
3	152033-SM-MW-3-0223	01/17/23	1450		X	GW		X	X	X	X
4	152033-SM-MW-9-0123	01/17/23	1605		X	GW		X	X	X	X
5	152033-SM-MW-9B-0123	01/17/23	1505		X	GW		X	X	X	X
6	152033-SM-MW-13A-0123	01/18/23	1142		X	GW		X	X	X	X
7	152033-SM-MW-13B-0123	01/18/23	1117		X	GW		X	X	X	X
8	152033-SM-MW-15A-0123	01/18/23	1022		X	GW		X	X	X	X
9	152033-SM-MW-17-0123	01/18/23	1505		X	GW		X	X	X	X
10	152033-SM-MW-18-0123	01/18/23	1610		X	GW		X	X	X	X

ANALYSIS REQUESTED

# of Containers	2	2	2	2
[2] Preservation Code	N	N	N	N
[3] Container Code	P	P	P	P

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: Sample 152033-SM-MW-9B-0123 has 6 containers, to be split with MS/MSD
* 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: 01/19/23 1100
Received by: (signature)		Date/Time: 1-19-23 1142
Relinquished by: (signature)		Date/Time: 1-19 1700
Received by: (signature)	2.0/3.0	Date/Time: 1/20/23 912
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

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

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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: SEE PAGE 1
Project Location:
Project Number:
Project Manager:
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By:

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:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals (6010C)	Mercury (7470C)	Dis. TAL Metals (6010C)	Dis. Mercury (6010C)	Dis. Cd. + Cr (6010C)	Total Hardness (2340B)	HOLD
11	152033-SM-MW-15B-0123	01/18/23	1024		X	GW		X	X	X	X			
12	152033-SM-MW-22A-0123	01/18/23	0915		X	GW		X	X	X	X			
13	152033-SM-MW-22B-0123	01/18/23	0915		X	GW		X	X	X	X			
14	152033-SM-MW-23A-0123	01/18/23	1328		X	GW		X	X	X	X			
15	152033-SM-MW-23B-0123	01/18/23	1327		X	GW		X	X	X	X			
16	152033-SM-SW-05-0123	1/17/23	1020		X	O'						X	X	
17	152033-SM-SW-06-0123	1/17/23	0941		X	O'						X	X	
18	152033-SM-SW-07-0123	1/17/23	0908		X	O'						X	X	
19	152033-SM-SW-08-0123	1/17/23	0840		X	O'						X	X	
20	152033-SM-SW-09-0123	1/17/23	0817		X	O'								X

# of Containers: 2 2 2 2 1 1 2
[2] Preservation Code: N N N N N N N
[3] Container Code: P P P P P P P

Comments: O' = Surface water
Sample 152033-SM-SW-08-0123 has 6 containers to be split w/ MS/MSD
* 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

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[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: 01/19/23 1100
Received by: (signature)		Date/Time: 1-19 1142
Relinquished by: (signature)		Date/Time: 1-19 1700
Received by: (signature)	Sample 2-013.2	Date/Time: 1/20/23
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

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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: SEE PAGE 1
Project Number:
Project Manager:
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By:

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:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	HOLD	Total Cd + Cr (6010)	HOLD	# of Containers	[2] Preservation Code	[3] Container Code
21	152033-SM-SW-10-0123	1/17/23	1037		X	O'		X			2	N	I
22	152033-SM-SW-11-0123	1/17/23	1057		X	O'		X			2	N	I
23	152033-SM-SD-05-0123	1/17/23	1020	X		SOL			X		1		A
24	152033-SM-SD-06-0123	1/17/23	0941	X		SOL			X		1		A
25	152033-SM-SD-07-0123	1/17/23	0908	X		SOL			X		1		A
26	152033-SM-SD-08-0123	1/17/23	0840	X		SOL			X		1		A
27	152033-SM-SD-09-0123	1/17/23	0817	X		SOL				X	1		A
28	152033-SM-SD-10-0123	1/17/23	1037	X		SOL				X	1		A
29	152033-SM-SD-11-0123	1/17/23	1057	X		SOL				X	1		A
30	152033-SM-SD-FD-0123	1/17/23		X		SOL			X		1		A

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[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)

Comments: O' = surface water
Sample 152033-SM-SD-05-0123 has 3 containers to be split w/ MS/MSD
* 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

Relinquished by: (signature)	Date/Time:
[signature]	01/18/23 1100
Received by: (signature)	Date/Time:
[signature]	1.19 1142
Relinquished by: (signature)	Date/Time:
[signature]	1.19 1700
Received by: (signature)	Date/Time:
[signature] 2.0 13.6	1/20/23
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☑ AWQ STDS
☐ NYC Sewer Discharge
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
☐ NY TOGS
☐ NY CP-51

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:
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Minneapolis, MN 55414

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7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code[1]	Conc Code	Dis. Cd+Cr (6010C)	Total Hardness (2340B)	TAL Metals (6010C)	Mercury (6010C)	Dis. TAL Metals (6010C)	Dis. Mercury (6010C)	# of Containers	[2] Preservation Code	[3] Container Code
								1	1	2	2	2	2			
								N	N	N	N	N	N			
								P	P	P	P	P	P			
31	152033-SM-SW-FD-01172023	1/17/23			X	O'		X	X							
32	152033-SM-MW-FD-01182023	1/18/23			X	GW				X	X	X	X			
33	152033-SM-RB-01172023	1/17/23	1625		X	O²		X								

Comments: O' = surface water O² = water (has 2 containers)
Client has indicated for Sample-33 Rinse blanks were not filtered and should be analyzed for Total Cr and Cd.
KKS 1/24
* 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

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[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: 01/19/23 1100	
Received by: (signature)	Date/Time: 1-19 1142	
Relinquished by: (signature)	Date/Time: 1-19 1700	
Received by: (signature) 2.0 13.0	Date/Time: 1/20/23	
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

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[redacted]

FedEx® Tracking

DELIVERED

Friday

1/20/2023 at 9:12 am

Signed for by: E.HENRIQUEZ

Obtain Proof of delivery

How was your delivery?

☆ ☆ ☆ ☆ ☆

DELIVERY STATUS

Delivered

Shipment is 1 of 3 pieces

TRACKING ID

771074723450

FROM
East Syracuse, NY US

Label Created
1/19/2023 2:13 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
1/19/2023 3:37 PM

IN TRANSIT
WINDSOR LOCKS, CT
1/20/2023 7:59 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
1/20/2023 8:07 AM

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
1/20/2023 at 9:12 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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SUBMIT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
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Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace PEOPLE ADVANCING SCIENCE

Client EA Engineering
Project D205 Fusteer CO
MCP/RCP Required N/A
Deliverable Package Requirement NH
Location W. Islip, NY
PWSID# (When Applicable) NH
Arrival Method Fedex
Received By / Date / Time LA 11/20/23 912
Back-Sheet By / Date / Time LA 11/20/23
Temperature Method Gun # 5
Temp < 6° C ☑ Actual Temperature 2.0/3.0
Rush Samples: Yes / (No) _____ Notify_____
Short Hold: Yes / (No) _____ Notify_____

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☑	☐
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☑	☐
MS/MSD	☑	☑ (LA)
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper PH ☑ ☐

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)			52					
Other Amber Clear Plastic								
16oz Amber Clear								
8oz (Amber) Clear	3							
4oz (Amber) Clear	6							
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

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March 16, 2023

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: W. Islip, NY
Client Job Number:
Project Number: 152033
Laboratory Work Order Number: 23B2984

Enclosed are results of analyses for samples as received by the laboratory on February 28, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 3/16/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B2984

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: W. Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-SD-09-0123	23B2984-01	Product/Solid		SW-846 6010D	
152033-SM-SD-10-0123	23B2984-02	Product/Solid		SW-846 6010D	
152033-SM-SD-11-0123	23B2984-03	Product/Solid		SW-846 6010D	

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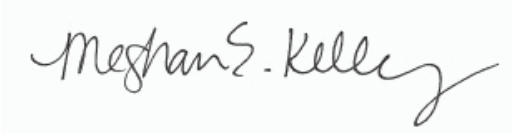
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: W. Islip, NY | Sample Description: | Work Order: 23B2984

Date Received: 2/28/2023

Field Sample #: 152033-SM-SD-09-0123 | Sampled: 1/17/2023 08:17

Sample ID: 23B2984-01

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.76	0.32	0.11	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:28	ATP
Chromium	4.0	0.64	0.23	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:28	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: W. Islip, NY | Sample Description: | Work Order: 23B2984

Date Received: 2/28/2023

Field Sample #: 152033-SM-SD-10-0123 | Sampled: 1/17/2023 10:37

Sample ID: 23B2984-02

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	1.2	0.33	0.11	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:36	ATP
Chromium	4.0	0.66	0.24	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:36	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: W. Islip, NY | Sample Description: | Work Order: 23B2984

Date Received: 2/28/2023

Field Sample #: 152033-SM-SD-11-0123 | Sampled: 1/17/2023 10:57

Sample ID: 23B2984-03

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.33	0.11	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:44	ATP
Chromium	1.9	0.67	0.25	mg/Kg	1		SW-846 6010D	3/8/23	3/10/23 21:44	ATP

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Sample Extraction Data

Prep Method: SW-846 3050B **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23B2984-01 [152033-SM-SD-09-0123]	B333645	1.57	50.0	03/08/23
23B2984-02 [152033-SM-SD-10-0123]	B333645	1.51	50.0	03/08/23
23B2984-03 [152033-SM-SD-11-0123]	B333645	1.50	50.0	03/08/23

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333645 - SW-846 3050B										
Blank (B333645-BLK1)				Prepared: 03/08/23 Analyzed: 03/10/23						
Cadmium	ND	0.32	mg/Kg							
Chromium	ND	0.63	mg/Kg							
LCS (B333645-BS1)				Prepared: 03/08/23 Analyzed: 03/10/23						
Cadmium	224	0.99	mg/Kg	221		101	82.1-118.4			
Chromium	211	2.0	mg/Kg	200		106	80.8-118.4			
LCS Dup (B333645-BSD1)				Prepared: 03/08/23 Analyzed: 03/10/23						
Cadmium	232	0.99	mg/Kg	221		105	82.1-118.4	3.39	20	
Chromium	207	2.0	mg/Kg	200		103	80.8-118.4	2.07	30	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Product/Solid	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
SW-846 6010D in Soil	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical

Phone: 612-607-6400
Fax: 612-607-6344

23B29784

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:
Address:
Phone:
Project Name:
Project Location:
Project Number:
Project Manager:
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By:

SEE PAGE 1

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:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	HOLD	Total Cd + Cr (6010)	HOLD
21	152033-SM-SW-10-0123	1/17/23	1037		X	O'		X		
22	152033-SM-SW-11-0123	1/17/23	1057		X	O'		X		
23	152033-SM-SD-05-0123	1/17/23	1020	X		SOL			X	
24	152033-SM-SD-06-0123	1/17/23	0941	X		SOL			X	
25	152033-SM-SD-07-0123	1/17/23	0908	X		SOL			X	
26	152033-SM-SD-08-0123	1/17/23	0840	X		SOL			X	
1 27	152033-SM-SD-09-0123	1/17/23	0817	X		SOL				X
2 28	152033-SM-SD-10-0123	1/17/23	1037	X		SOL				X
3 29	152033-SM-SD-11-0123	1/17/23	1057	X		SOL				X
30	152033-SM-SD-FD-0123	1/17/23		X		SOL			X	

# of Containers	[1] Preservation Code	[2] Container Code
2		1
2	N	A
1		A

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: O' = surface water
Sample 152033-SM-SD-05-0123 has 3 containers to be split w/ MS/MSD
* 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)

	Date/Time
Relinquished by: (signature)	01/19/23 1400
Received by: (signature)	1.19 1142
Relinquished by: (signature)	1.19 1700
Received by: (signature) 3.C 13.6	1/20/23
Relinquished by: (signature)	
Received by: (signature)	

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

Per Client request - Reactivated sediment samples 152033-SM-SD-09-0123, 152033-SM-SD-10-0123, and 152033-SM-SD-11-0123 for Total Cd and Cr via EPA Method 6010. KKS 2/28/23

Percent Solids canceled per client KKS 3/16/23

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[redacted]

FedEx® Tracking

DELIVERED

Friday

1/20/2023 at 9:12 am

Signed for by: E HENRIQUEZ

Obtain Proof of delivery

How was your delivery?

DELIVERY STATUS

Delivered

Shipment is 1 of 3 pieces

TRACKING ID

771074723450

FROM
East Syracuse, NY US

Label Created
1/19/2023 2:13 PM

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
1/19/2023 3:37 PM

IN TRANSIT
WINDSOR LOCKS, CT
1/20/2023 7:59 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
1/20/2023 8:07 AM

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
1/20/2023 at 9:12 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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SUBMIT

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East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
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ENV-FRM-ELON-0001 v02__Sample Receiving Checklist 1-12-2023

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace
PEOPLE ADVANCING SCIENCE

Client: EA engineering
Project: D205 Fusteer CO
MCP/RCP Required: N/A
Deliverable Package Requirement: NH
Location: W. Ist, NY
PWSID# (When Applicable): NH
Arrival Method: Fedex
Received By / Date / Time: CA 11/20/23 912
Back-Sheet By / Date / Time: CA 11/20/23
Temperature Method: Gun # 5
Temp < 6° C [✓] Actual Temperature: 2.0/3.0
Rush Samples: Yes / (No) Notify:
Short Hold: Yes / (No) Notify:

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	✓	
Received in Cooler	✓	
Custody Seal: DATE TIME	✓	
COC Relinquished	✓	
COC/Samples Labels Agree	✓	
All Samples in Good Condition	✓	
Samples Received within Holding Time	✓	
Is there enough Volume	✓	
Proper Media/Container Used	✓	
Splitting Samples Required	✓	
MS/MSD	✓	✓ (LW)
Trip Blanks		✓
Lab to Filters		✓
COC Legible	✓	

COC Included: (Check all included)

Client ✓ Analysis ✓ Sampler Name ✓
Project ✓ IDs ✓ Collection Date/Time ✓

All Samples Proper PH ✓

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)			52					
Other Amber Clear Plastic								
16oz Amber Clear								
8oz (Amber) Clear	3							
4oz (Amber) Clear	6							
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

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July 28, 2023

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: West Islip, NY
Client Job Number:
Project Number: 152033
Laboratory Work Order Number: 23G0004

Enclosed are results of analyses for samples as received by the laboratory on June 30, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 7/28/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G0004

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: West Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-SD-09-0623	23G0004-01	Product/Solid		SW-846 6010D	
152033-SM-SD-08-0623	23G0004-02	Product/Solid		SW-846 6010D	
152033-SM-SW-01-0623	23G0004-03	Surface Water		SW-846 6010	
				SW-846 6010D	
152033-SM-SD-01-0623	23G0004-04	Product/Solid		SW-846 6010D	
152033-SM-MW-22B-0623	23G0004-05	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-22A-0623	23G0004-06	Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-1-0623	23G0004-07	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-3-0623	23G0004-08	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-15A-0623	23G0004-09	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-15B-0623	23G0004-10	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-2-0623	23G0004-11	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-17-0623	23G0004-12	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-23B-0623	23G0004-13	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-23A-0623	23G0004-14	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-13B-0623	23G0004-15	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-13A-0623	23G0004-16	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 7/28/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G0004

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: West Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-MW-18-0623	23G0004-17	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-9B-0623	23G0004-18	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-MW-9-0623	23G0004-19	Ground Water		SW-846 6010D	
				SW-846 6020B	
				SW-846 7470A	
152033-SM-SD-FD-0623	23G0004-20	Product/Solid		SW-846 6010D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc

23G0004-05[152033-SM-MW-22B-0623], 23G0004-06[152033-SM-MW-22A-0623], 23G0004-07[152033-SM-MW-1-0623], 23G0004-08[152033-SM-MW-3-0623], 23G0004-09[152033-SM-MW-15A-0623], 23G0004-10[152033-SM-MW-15B-0623], 23G0004- 11[152033-SM-MW-2-0623], 23G0004-12[152033-SM-MW-17-0623], 23G0004-13[152033-SM-MW-23B-0623], 23G0004-14[152033-SM-MW-23A-0623], 23G0004-15[152033-SM-MW-13B-0623], 23G0004-16[152033-SM-MW-13A-0623], 23G0004-17[152033-SM-MW-18-0623], 23G0004-18[152033-SM-MW-9B-0623], 23G0004-19[152033-SM-MW-9-0623], B346019-BLK2, B 346116-BLK3

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Zinc

23G0004-14[152033-SM-MW-23A-0623], 23G0004-16[152033-SM-MW-13A-0623]

B-06

Continuing calibration blank did not meet method specified criteria. Data is not affected since all associated samples were "Not Detected" even though CCB value was above the reporting limit.

Analyte & Samples(s) Qualified:

Beryllium

23G0004-05[152033-SM-MW-22B-0623], S090568-CCB2

Silver

23G0004-05[152033-SM-MW-22B-0623], 23G0004-19[152033-SM-MW-9-0623], S090568-CCB2, S090568-CCB5

M-08

The interference check sample was outside of control limits. Data validation is not affected since the sample result is "not detected" and the bias is on the high side.

Analyte & Samples(s) Qualified:

Antimony

23G0004-19[152033-SM-MW-9-0623], S090380-IFA2, S090380-IFA3, S090380-IFA4

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium

23G0004-19[152033-SM-MW-9-0623], B345508-MS1

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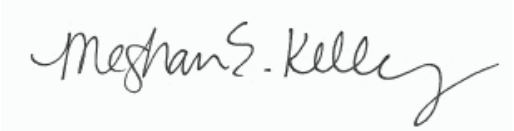
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SD-09-0623 | Sampled: 6/26/2023 12:00

Sample ID: 23G0004-01

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	8.6	0.31	0.10	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:15	ATP
Chromium	11	0.63	0.23	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:15	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SD-08-0623 | Sampled: 6/26/2023 12:20

Sample ID: 23G0004-02

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	11	0.33	0.11	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:33	ATP
Chromium	12	0.66	0.24	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:33	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SW-01-0623 | Sampled: 6/26/2023 12:55

Sample ID: 23G0004-03

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	60	1.4		mg/L	1		SW-846 6010	7/18/23	7/19/23 18:51	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SW-01-0623 | Sampled: 6/26/2023 12:55

Sample ID: 23G0004-03

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 12:10	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 12:10	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SD-01-0623 | Sampled: 6/26/2023 13:18

Sample ID: 23G0004-04

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	6.6	0.31	0.10	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:08	ATP
Chromium	5.9	0.63	0.23	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:08	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-22B-0623 | Sampled: 6/26/2023 15:51

Sample ID: 23G0004-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:22	MJH
Barium	0.026	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1	B-06	SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Calcium	26	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Cobalt	0.0024	0.010	0.0021	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Iron	0.25	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Magnesium	4.0	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Manganese	0.63	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:17	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Potassium	2.7	2.0	0.28	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Silver	ND	0.010	0.0035	mg/L	1	B-06	SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Sodium	15	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:07	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 10:07	HNN
Zinc	0.0069	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/14/23	7/20/23 10:07	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-22B-0623 | Sampled: 6/26/2023 15:51

Sample ID: 23G0004-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Antimony	0.0087	0.050	0.0082	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:06	MJH
Barium	0.022	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Calcium	25	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:16	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:16	ATP
Magnesium	3.9	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Manganese	0.45	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:20	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Potassium	2.5	2.0	0.28	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:16	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Sodium	14	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:30	ATP
Zinc	0.0074	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 13:30	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-22A-0623 | Sampled: 6/26/2023 15:55

Sample ID: 23G0004-06

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.070	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Arsenic	1.4	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:08	NC
Barium	0.012	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Calcium	19	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:58	HNN
Iron	1.7	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:58	HNN
Magnesium	2.8	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Manganese	0.21	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:18	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Potassium	0.64	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:58	HNN
Sodium	29	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:58	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:58	HNN
Zinc	0.015	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:36	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-22A-0623 | Sampled: 6/26/2023 15:55

Sample ID: 23G0004-06

Sample Matrix: Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.045	0.050	0.045	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:08	MJH
Barium	0.011	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Calcium	18	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:22	ATP
Iron	1.5	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:22	ATP
Magnesium	2.7	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Manganese	0.20	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:22	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Potassium	0.65	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:22	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Sodium	30	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:35	ATP
Zinc	0.0062	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 13:35	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-1-0623 | Sampled: 6/26/2023 17:15

Sample ID: 23G0004-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.070	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:11	NC
Barium	0.022	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Calcium	16	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Copper	0.0044	0.010	0.0036	mg/L	1	J	SW-846 6010D	7/20/23	7/27/23 14:04	HNN
Iron	0.13	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:04	HNN
Magnesium	2.5	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Manganese	0.024	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:20	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Potassium	1.7	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:04	HNN
Sodium	40	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:04	HNN
Vanadium	0.0065	0.010	0.0038	mg/L	1	J	SW-846 6010D	7/20/23	7/27/23 14:04	HNN
Zinc	0.013	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:41	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-1-0623 | Sampled: 6/26/2023 17:15

Sample ID: 23G0004-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:09	MJH
Barium	0.020	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Calcium	14	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:28	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:28	ATP
Magnesium	2.3	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Manganese	0.0054	0.010	0.0033	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:24	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Potassium	1.5	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:28	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Sodium	40	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:40	ATP
Zinc	0.015	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 13:40	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-3-0623 | Sampled: 6/26/2023 17:38

Sample ID: 23G0004-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:21	NC
Barium	0.020	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Calcium	19	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:10	HNN
Iron	0.072	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:10	HNN
Magnesium	3.1	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Manganese	0.068	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:22	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Potassium	3.5	2.0	0.28	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:10	HNN
Sodium	17	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:47	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:10	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:10	HNN
Zinc	0.0044	0.010	0.0042	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:47	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-3-0623 | Sampled: 6/26/2023 17:38

Sample ID: 23G0004-08

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1.0	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Antimony	0.0086	0.050	0.0082	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:14	MJH
Barium	0.022	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Cadmium	0.016	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Calcium	18	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:34	ATP
Iron	1.0	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:34	ATP
Magnesium	3.0	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Manganese	0.072	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:26	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Potassium	3.4	2.0	0.28	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:34	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Sodium	17	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:46	ATP
Zinc	0.015	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 13:46	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-15A-0623 | Sampled: 6/27/2023 08:22

Sample ID: 23G0004-09

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:25	NC
Barium	0.049	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Calcium	12	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:15	HNN
Iron	0.50	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:15	HNN
Magnesium	4.7	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Manganese	0.087	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:24	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:15	HNN
Sodium	35	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:15	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:15	HNN
Zinc	0.016	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:53	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-15A-0623 | Sampled: 6/27/2023 08:22

Sample ID: 23G0004-09

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:16	MJH
Barium	0.044	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Calcium	12	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:39	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:39	ATP
Magnesium	4.5	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Manganese	0.084	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:32	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:39	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Sodium	35	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:51	ATP
Zinc	0.019	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 13:51	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-15B-0623 | Sampled: 6/27/2023 08:30

Sample ID: 23G0004-10

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:33	MJH
Barium	0.0063	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Cadmium	0.010	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Calcium	8.9	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Magnesium	1.1	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Manganese	0.16	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:25	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Potassium	1.2	2.0	0.28	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Sodium	8.4	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:47	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 11:00	HNN
Zinc	0.0066	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/14/23	7/20/23 11:00	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-15B-0623 | Sampled: 6/27/2023 08:30

Sample ID: 23G0004-10

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:17	MJH
Barium	ND	0.050	0.0051	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Calcium	8.5	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:45	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:45	ATP
Magnesium	1.0	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Manganese	ND	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:34	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Potassium	1.2	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:45	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Sodium	8.3	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:09	ATP
Zinc	0.0092	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 14:09	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-2-0623 | Sampled: 6/27/2023 09:28

Sample ID: 23G0004-11

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:35	MJH
Barium	0.033	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Cadmium	0.0068	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Calcium	18	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Magnesium	3.0	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Manganese	0.0062	0.010	0.0033	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:27	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Potassium	2.0	2.0	0.28	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Sodium	39	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:52	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 11:07	HNN
Zinc	0.0092	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/14/23	7/20/23 11:07	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-2-0623 | Sampled: 6/27/2023 09:28

Sample ID: 23G0004-11

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:19	MJH
Barium	0.033	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Cadmium	0.0067	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Calcium	18	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:51	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:51	ATP
Magnesium	2.9	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Manganese	0.0049	0.010	0.0033	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:36	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Potassium	1.9	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:51	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Sodium	39	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:15	ATP
Zinc	0.012	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 14:15	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-17-0623 | Sampled: 6/27/2023 10:50

Sample ID: 23G0004-12

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.38	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Arsenic	0.81	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:37	MJH
Barium	0.017	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Calcium	11	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Copper	0.0063	0.010	0.0036	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Iron	0.99	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Lead	0.0068	0.010	0.0068	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Magnesium	2.5	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Manganese	0.44	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:29	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Potassium	0.73	2.0	0.28	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Sodium	3.7	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 17:58	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 11:15	HNN
Zinc	0.036	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/14/23	7/20/23 11:15	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-17-0623 | Sampled: 6/27/2023 10:50

Sample ID: 23G0004-12

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.13	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:20	MJH
Barium	0.015	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Calcium	10	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Copper	0.0047	0.010	0.0036	mg/L	1	J	SW-846 6010D	7/17/23	7/21/23 12:57	ATP
Iron	0.47	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:57	ATP
Magnesium	2.2	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Manganese	0.44	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/14/23	7/18/23 9:37	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Potassium	0.71	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 12:57	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Sodium	3.7	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:21	ATP
Zinc	0.033	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 14:21	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-23B-0623 | Sampled: 6/27/2023 11:33

Sample ID: 23G0004-13

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.13	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:28	NC
Barium	0.025	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Calcium	8.2	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Copper	0.0037	0.010	0.0036	mg/L	1	J	SW-846 6010D	7/20/23	7/27/23 14:21	HNN
Iron	0.28	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:21	HNN
Magnesium	1.9	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Manganese	0.025	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:31	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Potassium	1.5	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:21	HNN
Sodium	11	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:21	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:21	HNN
Zinc	0.024	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:10	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-23B-0623 | Sampled: 6/27/2023 11:33

Sample ID: 23G0004-13

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:22	MJH
Barium	0.022	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Calcium	7.8	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:03	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:03	ATP
Magnesium	1.7	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Manganese	0.022	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/10/23	7/11/23 10:33	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Potassium	1.5	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:03	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Sodium	11	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:26	ATP
Zinc	0.016	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/17/23	7/18/23 14:26	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-23A-0623 | Sampled: 6/27/2023 12:32

Sample ID: 23G0004-14

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.15	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:40	MJH
Barium	0.025	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Calcium	32	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Iron	1.3	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Magnesium	7.8	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Manganese	0.12	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:32	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Potassium	4.7	2.0	0.28	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Sodium	76	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:09	HNN
Vanadium	0.0056	0.010	0.0038	mg/L	1	J	SW-846 6010D	7/14/23	7/20/23 11:29	HNN
Zinc	ND	0.010	0.0042	mg/L	1	B-05	SW-846 6010D	7/14/23	7/20/23 11:29	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-23A-0623 | Sampled: 6/27/2023 12:32

Sample ID: 23G0004-14

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.11	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Antimony	0.0082	0.050	0.0082	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:24	MJH
Barium	0.025	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Calcium	31	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:09	ATP
Iron	1.3	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:09	ATP
Magnesium	7.6	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Manganese	0.12	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/10/23	7/11/23 10:35	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Potassium	4.7	2.0	0.28	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:09	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Sodium	77	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Vanadium	0.0047	0.010	0.0038	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:32	ATP
Zinc	0.0076	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 14:32	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-13B-0623 | Sampled: 6/27/2023 13:24

Sample ID: 23G0004-15

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:41	MJH
Barium	0.036	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Calcium	8.2	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Iron	0.17	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Magnesium	1.3	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Manganese	0.019	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:39	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Sodium	14	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:15	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 11:35	HNN
Zinc	0.0054	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/14/23	7/20/23 11:35	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-13B-0623 | Sampled: 6/27/2023 13:24

Sample ID: 23G0004-15

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:25	MJH
Barium	0.036	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Calcium	8.1	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:27	ATP
Iron	0.17	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:27	ATP
Magnesium	1.3	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Manganese	0.019	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/10/23	7/11/23 10:37	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:27	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Sodium	15	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:37	ATP
Zinc	0.0091	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 14:37	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-13A-0623 | Sampled: 6/27/2023 13:55

Sample ID: 23G0004-16

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:43	MJH
Barium	0.020	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Cadmium	0.53	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Calcium	21	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Iron	0.27	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Magnesium	3.5	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Manganese	0.037	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:41	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Potassium	2.4	2.0	0.28	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Sodium	31	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:20	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/14/23	7/20/23 11:41	HNN
Zinc	ND	0.010	0.0042	mg/L	1	B-05	SW-846 6010D	7/14/23	7/20/23 11:41	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-13A-0623 | Sampled: 6/27/2023 13:55

Sample ID: 23G0004-16

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.046	0.050	0.045	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Antimony	0.0083	0.050	0.0082	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:27	MJH
Barium	0.020	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Cadmium	0.51	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Calcium	21	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:32	ATP
Iron	0.13	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:32	ATP
Magnesium	3.4	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Manganese	0.012	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/10/23	7/11/23 10:38	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Potassium	2.6	2.0	0.28	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:32	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Sodium	33	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:42	ATP
Zinc	0.0065	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 14:42	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-18-0623 | Sampled: 6/27/2023 15:06

Sample ID: 23G0004-17

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:04	NC
Barium	0.0069	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Calcium	12	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:42	HNN
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:42	HNN
Magnesium	1.2	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Manganese	0.053	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:42	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:42	HNN
Sodium	7.6	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:42	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 13:42	HNN
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 20:30	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-18-0623 | Sampled: 6/27/2023 15:06

Sample ID: 23G0004-17

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:03	MJH
Barium	0.0054	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Calcium	12	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 11:52	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 11:52	ATP
Magnesium	1.2	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Manganese	ND	0.010	0.0033	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Potassium	1.3	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 11:52	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Sodium	7.4	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 13:12	ATP
Zinc	0.0096	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 13:12	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-9B-0623 | Sampled: 6/27/2023 16:41

Sample ID: 23G0004-18

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.22	0.050	0.045	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/21/23	7/26/23 13:32	NC
Barium	0.011	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Calcium	6.1	0.50	0.22	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:26	HNN
Iron	0.33	0.050	0.047	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:26	HNN
Magnesium	1.1	0.050	0.0095	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Manganese	0.014	0.010	0.0033	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:44	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Potassium	1.4	2.0	0.28	mg/L	1	J	SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:26	HNN
Sodium	11	2.0	1.2	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:26	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/20/23	7/27/23 14:26	HNN
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	7/20/23	7/25/23 21:16	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-9B-0623 | Sampled: 6/27/2023 16:41

Sample ID: 23G0004-18

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/17/23	7/20/23 17:28	MJH
Barium	0.0088	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Calcium	5.8	0.50	0.22	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:38	ATP
Iron	ND	0.050	0.047	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:38	ATP
Magnesium	0.97	0.050	0.0095	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Manganese	0.0088	0.010	0.0033	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/10/23	7/11/23 10:47	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Potassium	1.3	2.0	0.28	mg/L	1	J	SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/17/23	7/21/23 13:38	ATP
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Sodium	11	2.0	1.2	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/17/23	7/18/23 14:48	ATP
Zinc	0.0066	0.010	0.0042	mg/L	1	B, J	SW-846 6010D	7/17/23	7/18/23 14:48	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-9-0623 | Sampled: 6/27/2023 16:43

Sample ID: 23G0004-19

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2.7	0.050	0.045	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Antimony	ND	0.050	0.0082	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Arsenic	1.1	0.80	0.78	µg/L	1		SW-846 6020B	7/14/23	7/20/23 18:49	MJH
Barium	0.037	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Cadmium	0.0070	0.0040	0.0018	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Calcium	35	0.50	0.22	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Cobalt	0.0026	0.010	0.0021	mg/L	1	J	SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Copper	0.0070	0.010	0.0036	mg/L	1	J	SW-846 6010D	7/14/23	7/25/23 17:41	NC
Iron	4.4	0.050	0.047	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Lead	0.011	0.010	0.0068	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Magnesium	4.9	0.050	0.0095	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Manganese	0.047	0.010	0.0033	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/13/23	7/18/23 10:46	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Potassium	2.1	2.0	0.28	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Silver	ND	0.010	0.0035	mg/L	1	B-06	SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Sodium	28	2.0	1.2	mg/L	1		SW-846 6010D	7/14/23	7/20/23 12:07	MJH
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/14/23	7/16/23 18:43	HNN
Vanadium	0.0065	0.010	0.0038	mg/L	1	J	SW-846 6010D	7/14/23	7/20/23 12:07	HNN
Zinc	0.018	0.010	0.0042	mg/L	1	B	SW-846 6010D	7/14/23	7/20/23 12:07	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-MW-9-0623 | Sampled: 6/27/2023 16:43

Sample ID: 23G0004-19

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.045	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Antimony	ND	0.050	0.0082	mg/L	1	M-08	SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Arsenic	ND	0.80	0.78	µg/L	1		SW-846 6020B	7/26/23	7/27/23 15:20	NC
Barium	0.026	0.050	0.0051	mg/L	1	J	SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Cadmium	0.0053	0.0040	0.0018	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Calcium	34	0.50	0.22	mg/L	1	MS-19	SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Cobalt	ND	0.010	0.0021	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Iron	0.061	0.050	0.047	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Lead	ND	0.010	0.0068	mg/L	1		SW-846 6010D	7/10/23	7/13/23 15:29	HNN
Magnesium	4.6	0.050	0.0095	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Manganese	0.013	0.010	0.0033	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	7/6/23	7/6/23 15:28	AAJ
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Potassium	1.8	2.0	0.28	mg/L	1	J	SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Selenium	ND	0.050	0.014	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Silver	ND	0.010	0.0035	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Sodium	26	2.0	1.2	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Thallium	ND	0.050	0.021	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Vanadium	ND	0.010	0.0038	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN
Zinc	ND	0.010	0.0042	mg/L	1		SW-846 6010D	7/10/23	7/12/23 19:16	HNN

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Project Location: West Islip, NY | Sample Description: | Work Order: 23G0004

Date Received: 6/30/2023

Field Sample #: 152033-SM-SD-FD-0623 | Sampled: 6/26/2023 00:00

Sample ID: 23G0004-20

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	7.4	0.32	0.11	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:40	ATP
Chromium	9.6	0.64	0.24	mg/Kg	1		SW-846 6010D	7/18/23	7/19/23 22:40	ATP

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Sample Extraction Data

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010**

Lab Number [Field ID]	Batch	Initial [mL]	Date
23G0004-03 [152033-SM-SW-01-0623]	B346319	50.0	07/18/23

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23G0004-01 [152033-SM-SD-09-0623]	B346246	1.59	50.0	07/18/23
23G0004-02 [152033-SM-SD-08-0623]	B346246	1.52	50.0	07/18/23
23G0004-04 [152033-SM-SD-01-0623]	B346246	1.60	50.0	07/18/23
23G0004-20 [152033-SM-SD-FD-0623]	B346246	1.56	50.0	07/18/23

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-19 [152033-SM-MW-9-0623]	B345508	25.0	25.0	07/10/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-05 [152033-SM-MW-22B-0623]	B346019	50.0	50.0	07/14/23
23G0004-10 [152033-SM-MW-15B-0623]	B346019	50.0	50.0	07/14/23
23G0004-11 [152033-SM-MW-2-0623]	B346019	50.0	50.0	07/14/23
23G0004-12 [152033-SM-MW-17-0623]	B346019	50.0	50.0	07/14/23
23G0004-14 [152033-SM-MW-23A-0623]	B346019	50.0	50.0	07/14/23
23G0004-15 [152033-SM-MW-13B-0623]	B346019	50.0	50.0	07/14/23
23G0004-16 [152033-SM-MW-13A-0623]	B346019	50.0	50.0	07/14/23
23G0004-19 [152033-SM-MW-9-0623]	B346019	50.0	50.0	07/14/23

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-03 [152033-SM-SW-01-0623]	B346116	25.0	25.0	07/17/23
23G0004-05 [152033-SM-MW-22B-0623]	B346116	25.0	25.0	07/17/23
23G0004-06 [152033-SM-MW-22A-0623]	B346116	25.0	25.0	07/17/23
23G0004-07 [152033-SM-MW-1-0623]	B346116	25.0	25.0	07/17/23
23G0004-08 [152033-SM-MW-3-0623]	B346116	25.0	25.0	07/17/23
23G0004-09 [152033-SM-MW-15A-0623]	B346116	25.0	25.0	07/17/23
23G0004-10 [152033-SM-MW-15B-0623]	B346116	25.0	25.0	07/17/23
23G0004-11 [152033-SM-MW-2-0623]	B346116	25.0	25.0	07/17/23
23G0004-12 [152033-SM-MW-17-0623]	B346116	25.0	25.0	07/17/23
23G0004-13 [152033-SM-MW-23B-0623]	B346116	25.0	25.0	07/17/23
23G0004-14 [152033-SM-MW-23A-0623]	B346116	25.0	25.0	07/17/23
23G0004-15 [152033-SM-MW-13B-0623]	B346116	25.0	25.0	07/17/23
23G0004-16 [152033-SM-MW-13A-0623]	B346116	25.0	25.0	07/17/23
23G0004-17 [152033-SM-MW-18-0623]	B346116	25.0	25.0	07/17/23
23G0004-18 [152033-SM-MW-9B-0623]	B346116	25.0	25.0	07/17/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

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Sample Extraction Data

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-06RE1 [152033-SM-MW-22A-0623]	B346632	50.0	50.0	07/20/23
23G0004-07RE1 [152033-SM-MW-1-0623]	B346632	50.0	50.0	07/20/23
23G0004-08RE1 [152033-SM-MW-3-0623]	B346632	50.0	50.0	07/20/23
23G0004-09RE1 [152033-SM-MW-15A-0623]	B346632	50.0	50.0	07/20/23
23G0004-13RE1 [152033-SM-MW-23B-0623]	B346632	50.0	50.0	07/20/23
23G0004-17RE1 [152033-SM-MW-18-0623]	B346632	50.0	50.0	07/20/23
23G0004-18RE1 [152033-SM-MW-9B-0623]	B346632	50.0	50.0	07/20/23

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6020B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-05 [152033-SM-MW-22B-0623]	B346701	25.0	25.0	07/17/23
23G0004-06 [152033-SM-MW-22A-0623]	B346701	25.0	25.0	07/17/23
23G0004-07 [152033-SM-MW-1-0623]	B346701	25.0	25.0	07/17/23
23G0004-08 [152033-SM-MW-3-0623]	B346701	25.0	25.0	07/17/23
23G0004-09 [152033-SM-MW-15A-0623]	B346701	25.0	25.0	07/17/23
23G0004-10 [152033-SM-MW-15B-0623]	B346701	25.0	25.0	07/17/23
23G0004-11 [152033-SM-MW-2-0623]	B346701	25.0	25.0	07/17/23
23G0004-12 [152033-SM-MW-17-0623]	B346701	25.0	25.0	07/17/23
23G0004-13 [152033-SM-MW-23B-0623]	B346701	25.0	25.0	07/17/23
23G0004-14 [152033-SM-MW-23A-0623]	B346701	25.0	25.0	07/17/23
23G0004-15 [152033-SM-MW-13B-0623]	B346701	25.0	25.0	07/17/23
23G0004-16 [152033-SM-MW-13A-0623]	B346701	25.0	25.0	07/17/23
23G0004-17 [152033-SM-MW-18-0623]	B346701	25.0	25.0	07/17/23
23G0004-18 [152033-SM-MW-9B-0623]	B346701	25.0	25.0	07/17/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6020B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-05 [152033-SM-MW-22B-0623]	B346703	50.0	50.0	07/14/23
23G0004-10 [152033-SM-MW-15B-0623]	B346703	50.0	50.0	07/14/23
23G0004-11 [152033-SM-MW-2-0623]	B346703	50.0	50.0	07/14/23
23G0004-12 [152033-SM-MW-17-0623]	B346703	50.0	50.0	07/14/23
23G0004-14 [152033-SM-MW-23A-0623]	B346703	50.0	50.0	07/14/23
23G0004-15 [152033-SM-MW-13B-0623]	B346703	50.0	50.0	07/14/23
23G0004-16 [152033-SM-MW-13A-0623]	B346703	50.0	50.0	07/14/23
23G0004-19 [152033-SM-MW-9-0623]	B346703	50.0	50.0	07/14/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6020B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-06RE1 [152033-SM-MW-22A-0623]	B346758	50.0	50.0	07/21/23
23G0004-07RE1 [152033-SM-MW-1-0623]	B346758	50.0	50.0	07/21/23
23G0004-08RE1 [152033-SM-MW-3-0623]	B346758	50.0	50.0	07/21/23
23G0004-09RE1 [152033-SM-MW-15A-0623]	B346758	50.0	50.0	07/21/23
23G0004-13RE1 [152033-SM-MW-23B-0623]	B346758	50.0	50.0	07/21/23
23G0004-17RE1 [152033-SM-MW-18-0623]	B346758	50.0	50.0	07/21/23
23G0004-18RE1 [152033-SM-MW-9B-0623]	B346758	50.0	50.0	07/21/23

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Sample Extraction Data

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6020B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-19 [152033-SM-MW-9-0623]	B347134	50.0	50.0	07/26/23

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-19 [152033-SM-MW-9-0623]	B345171	10.0	10.0	07/06/23

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-13 [152033-SM-MW-23B-0623]	B345498	10.0	10.0	07/10/23
23G0004-14 [152033-SM-MW-23A-0623]	B345498	10.0	10.0	07/10/23
23G0004-15 [152033-SM-MW-13B-0623]	B345498	10.0	10.0	07/10/23
23G0004-16 [152033-SM-MW-13A-0623]	B345498	10.0	10.0	07/10/23
23G0004-18 [152033-SM-MW-9B-0623]	B345498	10.0	10.0	07/10/23

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-05 [152033-SM-MW-22B-0623]	B345888	10.0	10.0	07/13/23
23G0004-06 [152033-SM-MW-22A-0623]	B345888	10.0	10.0	07/13/23
23G0004-07 [152033-SM-MW-1-0623]	B345888	10.0	10.0	07/13/23
23G0004-08 [152033-SM-MW-3-0623]	B345888	10.0	10.0	07/13/23
23G0004-09 [152033-SM-MW-15A-0623]	B345888	10.0	10.0	07/13/23
23G0004-10 [152033-SM-MW-15B-0623]	B345888	10.0	10.0	07/13/23
23G0004-11 [152033-SM-MW-2-0623]	B345888	10.0	10.0	07/13/23
23G0004-12 [152033-SM-MW-17-0623]	B345888	10.0	10.0	07/13/23
23G0004-13 [152033-SM-MW-23B-0623]	B345888	10.0	10.0	07/13/23
23G0004-14 [152033-SM-MW-23A-0623]	B345888	10.0	10.0	07/13/23
23G0004-15 [152033-SM-MW-13B-0623]	B345888	10.0	10.0	07/13/23
23G0004-16 [152033-SM-MW-13A-0623]	B345888	10.0	10.0	07/13/23
23G0004-17 [152033-SM-MW-18-0623]	B345888	10.0	10.0	07/13/23
23G0004-18 [152033-SM-MW-9B-0623]	B345888	10.0	10.0	07/13/23
23G0004-19 [152033-SM-MW-9-0623]	B345888	10.0	10.0	07/13/23

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0004-05 [152033-SM-MW-22B-0623]	B346013	10.0	10.0	07/14/23
23G0004-06 [152033-SM-MW-22A-0623]	B346013	10.0	10.0	07/14/23
23G0004-07 [152033-SM-MW-1-0623]	B346013	10.0	10.0	07/14/23
23G0004-08 [152033-SM-MW-3-0623]	B346013	10.0	10.0	07/14/23
23G0004-09 [152033-SM-MW-15A-0623]	B346013	10.0	10.0	07/14/23
23G0004-10 [152033-SM-MW-15B-0623]	B346013	10.0	10.0	07/14/23
23G0004-11 [152033-SM-MW-2-0623]	B346013	10.0	10.0	07/14/23
23G0004-12 [152033-SM-MW-17-0623]	B346013	10.0	10.0	07/14/23

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B345888 - SW-846 7470A Prep										
Blank (B345888-BLK1)				Prepared: 07/13/23 Analyzed: 07/18/23						
Mercury	ND	0.00020	mg/L							
LCS (B345888-BS1)				Prepared: 07/13/23 Analyzed: 07/18/23						
Mercury	0.00412	0.00020	mg/L	0.00402		103	80-120			
LCS Dup (B345888-BSD1)				Prepared: 07/13/23 Analyzed: 07/18/23						
Mercury	0.00347	0.00020	mg/L	0.00402		86.4	80-120	17.0	20	
Matrix Spike (B345888-MS1)		**Source: 23G0004-17**		Prepared: 07/13/23 Analyzed: 07/18/23						
Mercury	0.00407	0.00020	mg/L	0.00402	ND	101	75-125			
Matrix Spike Dup (B345888-MSD1)		**Source: 23G0004-17**		Prepared: 07/13/23 Analyzed: 07/18/23						
Mercury	0.00412	0.00020	mg/L	0.00402	ND	102	75-125	1.30	20	
Batch B346019 - SW-846 3005A										
Blank (B346019-BLK1)				Prepared: 07/14/23 Analyzed: 07/16/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Blank (B346019-BLK2)				Prepared: 07/14/23 Analyzed: 07/20/23						
Vanadium	ND	0.010	mg/L							
Zinc	0.0075	0.010	mg/L							B, J
LCS (B346019-BS1)				Prepared: 07/14/23 Analyzed: 07/16/23						
Aluminum	0.513	0.050	mg/L	0.500		103	45.3-154.7			
Antimony	0.505	0.050	mg/L	0.500		101	80-120			
Barium	0.525	0.050	mg/L	0.500		105	80-120			
Beryllium	0.507	0.0040	mg/L	0.500		101	80-120			
Cadmium	0.516	0.0040	mg/L	0.500		103	80-120			
Calcium	4.08	0.50	mg/L	4.00		102	80-120			
Chromium	0.509	0.010	mg/L	0.500		102	80-120			
Cobalt	0.512	0.010	mg/L	0.500		102	80-120			
Copper	0.969	0.010	mg/L	1.00		96.9	80-120			
Iron	4.13	0.050	mg/L	4.00		103	80-120			
Lead	0.509	0.010	mg/L	0.500		102	80-120			
Magnesium	4.02	0.050	mg/L	4.00		100	80-120			
Manganese	0.477	0.010	mg/L	0.500		95.5	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346019 - SW-846 3005A										
LCS (B346019-BS1)				Prepared: 07/14/23 Analyzed: 07/16/23						
Nickel	0.519	0.010	mg/L	0.500		104	80-120			
Potassium	4.11	2.0	mg/L	4.00		103	80-120			
Selenium	0.526	0.050	mg/L	0.500		105	80-120			
Silver	0.547	0.010	mg/L	0.500		109	80-120			
Sodium	4.16	2.0	mg/L	4.00		104	80-120			
Thallium	0.519	0.050	mg/L	0.500		104	80-120			
LCS (B346019-BS2)				Prepared: 07/14/23 Analyzed: 07/20/23						
Vanadium	0.524	0.010	mg/L	0.500		105	80-120			
Zinc	1.10	0.010	mg/L	1.00		110	80-120			
LCS Dup (B346019-BSD1)				Prepared: 07/14/23 Analyzed: 07/16/23						
Aluminum	0.517	0.050	mg/L	0.500		103	45.3-154.7	0.738	30	
Antimony	0.505	0.050	mg/L	0.500		101	80-120	0.0495	20	
Barium	0.522	0.050	mg/L	0.500		104	80-120	0.506	20	
Beryllium	0.507	0.0040	mg/L	0.500		101	80-120	0.0506	20	
Cadmium	0.516	0.0040	mg/L	0.500		103	80-120	0.151	20	
Calcium	4.06	0.50	mg/L	4.00		101	80-120	0.519	20	
Chromium	0.506	0.010	mg/L	0.500		101	80-120	0.428	20	
Cobalt	0.510	0.010	mg/L	0.500		102	80-120	0.378	20	
Copper	0.965	0.010	mg/L	1.00		96.5	80-120	0.475	20	
Iron	4.12	0.050	mg/L	4.00		103	80-120	0.227	20	
Lead	0.507	0.010	mg/L	0.500		101	80-120	0.453	20	
Magnesium	4.02	0.050	mg/L	4.00		100	80-120	0.00946	20	
Manganese	0.478	0.010	mg/L	0.500		95.6	80-120	0.138	20	
Nickel	0.517	0.010	mg/L	0.500		103	80-120	0.321	30	
Potassium	4.07	2.0	mg/L	4.00		102	80-120	1.12	20	
Selenium	0.527	0.050	mg/L	0.500		105	80-120	0.226	20	
Silver	0.547	0.010	mg/L	0.500		109	80-120	0.159	20	
Sodium	4.09	2.0	mg/L	4.00		102	80-120	1.78	20	
Thallium	0.509	0.050	mg/L	0.500		102	80-120	2.00	20	
LCS Dup (B346019-BSD2)				Prepared: 07/14/23 Analyzed: 07/20/23						
Vanadium	0.519	0.010	mg/L	0.500		104	80-120	0.885	20	
Zinc	1.09	0.010	mg/L	1.00		109	80-120	0.555	20	
Matrix Spike (B346019-MS2)		**Source: 23G0004-17**		Prepared: 07/14/23 Analyzed: 07/20/23						
Vanadium	0.526	0.010	mg/L	0.500	ND	105	75-125			
Zinc	1.10	0.010	mg/L	1.00	0.00725	109	75-125			
Matrix Spike Dup (B346019-MSD2)		**Source: 23G0004-17**		Prepared: 07/14/23 Analyzed: 07/20/23						
Vanadium	0.529	0.010	mg/L	0.500	ND	106	75-125	0.697	20	
Zinc	1.10	0.010	mg/L	1.00	0.00725	110	75-125	0.251	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346246 - SW-846 3050B										
Blank (B346246-BLK1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Cadmium	ND	0.32	mg/Kg							
Chromium	ND	0.64	mg/Kg							
LCS (B346246-BS1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Cadmium	200	1.0	mg/Kg	221		90.3	82.4-117.2			
Chromium	184	2.0	mg/Kg	200		92.1	81.5-118.5			
LCS Dup (B346246-BSD1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Cadmium	186	0.99	mg/Kg	221		84.3	82.4-117.2	6.81	20	
Chromium	176	2.0	mg/Kg	200		88.0	81.5-118.5	4.61	30	
Matrix Spike (B346246-MS2)	**Source: 23G0004-04**			Prepared: 07/18/23 Analyzed: 07/19/23						
Cadmium	20.2	0.32	mg/Kg	16.0	6.65	84.8	75-125			
Chromium	20.7	0.64	mg/Kg	16.0	5.93	92.4	75-125			
Matrix Spike Dup (B346246-MSD2)	**Source: 23G0004-04**			Prepared: 07/18/23 Analyzed: 07/19/23						
Cadmium	22.1	0.33	mg/Kg	16.5	6.65	93.4	75-125	8.90	35	
Chromium	21.8	0.66	mg/Kg	16.5	5.93	96.0	75-125	5.14	35	
Batch B346319 - SW-846 3005A										
Blank (B346319-BLK1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Hardness	ND	1.4	mg/L							
LCS (B346319-BS1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Hardness	26	1.4	mg/L	26.4		100	80-120			
LCS Dup (B346319-BSD1)				Prepared: 07/18/23 Analyzed: 07/19/23						
Hardness	26	1.4	mg/L	26.4		99.6	80-120	0.525	20	
Matrix Spike (B346319-MS2)	**Source: 23G0004-03**			Prepared: 07/18/23 Analyzed: 07/19/23						
Hardness	87	1.4	mg/L	26.4	60	103	75-125			
Matrix Spike Dup (B346319-MSD2)	**Source: 23G0004-03**			Prepared: 07/18/23 Analyzed: 07/19/23						
Hardness	86	1.4	mg/L	26.4	60	99.5	75-125	0.989	20	
Batch B346632 - SW-846 3005A										
Blank (B346632-BLK1)				Prepared: 07/20/23 Analyzed: 07/25/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Sodium	ND	2.0	mg/L							
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346632 - SW-846 3005A										
Blank (B346632-BLK2)				Prepared: 07/20/23 Analyzed: 07/27/23						
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
LCS (B346632-BS1)				Prepared: 07/20/23 Analyzed: 07/25/23						
Aluminum	0.519	0.050	mg/L	0.500		104	45.3-154.7			
Antimony	0.528	0.050	mg/L	0.500		106	80-120			
Barium	0.543	0.050	mg/L	0.500		109	80-120			
Beryllium	0.564	0.0040	mg/L	0.500		113	80-120			
Cadmium	0.555	0.0040	mg/L	0.500		111	80-120			
Calcium	4.09	0.50	mg/L	4.00		102	80-120			
Chromium	0.535	0.010	mg/L	0.500		107	80-120			
Cobalt	0.536	0.010	mg/L	0.500		107	80-120			
Iron	4.03	0.050	mg/L	4.00		101	80-120			
Magnesium	3.97	0.050	mg/L	4.00		99.3	80-120			
Manganese	0.512	0.010	mg/L	0.500		102	80-120			
Nickel	0.548	0.010	mg/L	0.500		110	80-120			
Potassium	4.26	2.0	mg/L	4.00		106	80-120			
Selenium	0.571	0.050	mg/L	0.500		114	80-120			
Sodium	4.26	2.0	mg/L	4.00		107	80-120			
Zinc	1.11	0.010	mg/L	1.00		111	80-120			
LCS (B346632-BS2)				Prepared: 07/20/23 Analyzed: 07/27/23						
Copper	1.00	0.010	mg/L	1.00		100	80-120			
Lead	0.520	0.010	mg/L	0.500		104	80-120			
Silver	0.547	0.010	mg/L	0.500		109	80-120			
Thallium	0.504	0.050	mg/L	0.500		101	80-120			
Vanadium	0.510	0.010	mg/L	0.500		102	80-120			
LCS Dup (B346632-BSD1)				Prepared: 07/20/23 Analyzed: 07/25/23						
Aluminum	0.535	0.050	mg/L	0.500		107	45.3-154.7	3.08	30	
Antimony	0.535	0.050	mg/L	0.500		107	80-120	1.39	20	
Barium	0.552	0.050	mg/L	0.500		110	80-120	1.69	20	
Beryllium	0.547	0.0040	mg/L	0.500		109	80-120	2.93	20	
Cadmium	0.566	0.0040	mg/L	0.500		113	80-120	1.90	20	
Calcium	4.15	0.50	mg/L	4.00		104	80-120	1.40	20	
Chromium	0.545	0.010	mg/L	0.500		109	80-120	1.84	20	
Cobalt	0.545	0.010	mg/L	0.500		109	80-120	1.67	20	
Iron	4.15	0.050	mg/L	4.00		104	80-120	3.11	20	
Magnesium	4.12	0.050	mg/L	4.00		103	80-120	3.59	20	
Manganese	0.523	0.010	mg/L	0.500		105	80-120	2.05	20	
Nickel	0.558	0.010	mg/L	0.500		112	80-120	1.85	30	
Potassium	4.25	2.0	mg/L	4.00		106	80-120	0.0379	20	
Selenium	0.582	0.050	mg/L	0.500		116	80-120	1.87	20	
Sodium	4.17	2.0	mg/L	4.00		104	80-120	2.08	20	
Zinc	1.13	0.010	mg/L	1.00		113	80-120	1.38	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346632 - SW-846 3005A										
LCS Dup (B346632-BSD2)				Prepared: 07/20/23 Analyzed: 07/27/23						
Copper	1.01	0.010	mg/L	1.00		101	80-120	0.389	20	
Lead	0.523	0.010	mg/L	0.500		105	80-120	0.603	20	
Silver	0.540	0.010	mg/L	0.500		108	80-120	1.29	20	
Thallium	0.503	0.050	mg/L	0.500		101	80-120	0.281	20	
Vanadium	0.511	0.010	mg/L	0.500		102	80-120	0.242	20	
Matrix Spike (B346632-MS1)		**Source: 23G0004-17RE1**		Prepared: 07/20/23 Analyzed: 07/25/23						
Aluminum	0.528	0.050	mg/L	0.500	ND	106	75-125			
Antimony	0.525	0.050	mg/L	0.500	ND	105	75-125			
Barium	0.545	0.050	mg/L	0.500	0.00690	108	75-125			
Beryllium	0.550	0.0040	mg/L	0.500	ND	110	75-125			
Cadmium	0.550	0.0040	mg/L	0.500	ND	110	75-125			
Calcium	16.2	0.50	mg/L	4.00	12.2	100	75-125			
Chromium	0.531	0.010	mg/L	0.500	ND	106	75-125			
Cobalt	0.529	0.010	mg/L	0.500	ND	106	75-125			
Iron	4.07	0.050	mg/L	4.00	ND	102	75-125			
Magnesium	5.25	0.050	mg/L	4.00	1.24	100	75-125			
Manganese	0.566	0.010	mg/L	0.500	0.0531	103	75-125			
Nickel	0.539	0.010	mg/L	0.500	ND	108	75-125			
Potassium	5.55	2.0	mg/L	4.00	1.36	105	75-125			
Selenium	0.571	0.050	mg/L	0.500	ND	114	75-125			
Sodium	11.9	2.0	mg/L	4.00	7.63	107	75-125			
Zinc	1.10	0.010	mg/L	1.00	ND	110	75-125			
Matrix Spike (B346632-MS2)		**Source: 23G0004-17RE1**		Prepared: 07/20/23 Analyzed: 07/27/23						
Copper	1.00	0.010	mg/L	1.00	ND	100	75-125			
Lead	0.515	0.010	mg/L	0.500	ND	103	75-125			
Silver	0.556	0.010	mg/L	0.500	ND	111	75-125			
Thallium	0.508	0.050	mg/L	0.500	ND	102	75-125			
Vanadium	0.515	0.010	mg/L	0.500	ND	103	75-125			
Matrix Spike Dup (B346632-MSD1)		**Source: 23G0004-17RE1**		Prepared: 07/20/23 Analyzed: 07/25/23						
Aluminum	0.539	0.050	mg/L	0.500	ND	108	75-125	2.04	20	
Antimony	0.533	0.050	mg/L	0.500	ND	107	75-125	1.52	20	
Barium	0.551	0.050	mg/L	0.500	0.00690	109	75-125	1.16	20	
Beryllium	0.539	0.0040	mg/L	0.500	ND	108	75-125	2.14	20	
Cadmium	0.555	0.0040	mg/L	0.500	ND	111	75-125	0.859	20	
Calcium	16.4	0.50	mg/L	4.00	12.2	104	75-125	0.891	20	
Chromium	0.538	0.010	mg/L	0.500	ND	108	75-125	1.34	20	
Cobalt	0.534	0.010	mg/L	0.500	ND	107	75-125	0.928	20	
Iron	4.12	0.050	mg/L	4.00	ND	103	75-125	1.30	20	
Magnesium	5.30	0.050	mg/L	4.00	1.24	102	75-125	1.01	20	
Manganese	0.570	0.010	mg/L	0.500	0.0531	103	75-125	0.620	20	
Nickel	0.546	0.010	mg/L	0.500	ND	109	75-125	1.13	20	
Potassium	5.56	2.0	mg/L	4.00	1.36	105	75-125	0.184	20	
Selenium	0.578	0.050	mg/L	0.500	ND	116	75-125	1.15	20	
Sodium	11.6	2.0	mg/L	4.00	7.63	99.6	75-125	2.59	20	
Zinc	1.11	0.010	mg/L	1.00	ND	111	75-125	0.939	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346703 - SW-846 3005A										
Blank (B346703-BLK1)				Prepared: 07/14/23 Analyzed: 07/20/23						
Arsenic	ND	0.80	µg/L							
LCS (B346703-BS1)				Prepared: 07/14/23 Analyzed: 07/20/23						
Arsenic	535	8.0	µg/L	500		107	80-120			
LCS Dup (B346703-BSD1)				Prepared: 07/14/23 Analyzed: 07/20/23						
Arsenic	526	8.0	µg/L	500		105	80-120	1.66	20	
Batch B346758 - SW-846 3005A										
Blank (B346758-BLK1)				Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	ND	0.80	µg/L							
LCS (B346758-BS1)				Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	533	8.0	µg/L	500		107	80-120			
LCS Dup (B346758-BSD1)				Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	526	8.0	µg/L	500		105	80-120	1.20	20	
Matrix Spike (B346758-MS1)		**Source: 23G0004-17RE1**		Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	520	8.0	µg/L	500	ND	104	75-125			
Matrix Spike Dup (B346758-MSD1)		**Source: 23G0004-17RE1**		Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	521	8.0	µg/L	500	ND	104	75-125	0.322	20	
Post Spike (B346758-PS1)		**Source: 23G0004-17RE1**		Prepared: 07/21/23 Analyzed: 07/26/23						
Arsenic	21.0		µg/L	20.0	-0.120	105	75-125			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B345171 - SW-846 7470A Dissolved										
Blank (B345171-BLK1)				Prepared & Analyzed: 07/06/23						
Mercury	ND	0.00020	mg/L							
LCS (B345171-BS1)				Prepared & Analyzed: 07/06/23						
Mercury	0.00408	0.00020	mg/L	0.00402		101	80-120			
LCS Dup (B345171-BSD1)				Prepared & Analyzed: 07/06/23						
Mercury	0.00400	0.00020	mg/L	0.00402		99.4	80-120	2.07	20	
Batch B345498 - SW-846 7470A Dissolved										
Blank (B345498-BLK1)				Prepared: 07/10/23 Analyzed: 07/11/23						
Mercury	ND	0.00020	mg/L							
LCS (B345498-BS1)				Prepared: 07/10/23 Analyzed: 07/11/23						
Mercury	0.00435	0.00020	mg/L	0.00402		108	80-120			
LCS Dup (B345498-BSD1)				Prepared: 07/10/23 Analyzed: 07/11/23						
Mercury	0.00425	0.00020	mg/L	0.00402		106	80-120	2.34	20	
Matrix Spike (B345498-MS1)		**Source: 23G0004-17**		Prepared: 07/10/23 Analyzed: 07/11/23						
Mercury	0.00430	0.00020	mg/L	0.00402	ND	107	75-125			
Matrix Spike Dup (B345498-MSD1)		**Source: 23G0004-17**		Prepared: 07/10/23 Analyzed: 07/11/23						
Mercury	0.00430	0.00020	mg/L	0.00402	ND	107	75-125	0.179	20	
Batch B345508 - SW-846 3005A Dissolved										
Blank (B345508-BLK1)				Prepared: 07/10/23 Analyzed: 07/12/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B345508 - SW-846 3005A Dissolved										
Blank (B345508-BLK2)				Prepared: 07/10/23 Analyzed: 07/13/23						
Lead	ND	0.010	mg/L							
LCS (B345508-BS1)				Prepared: 07/10/23 Analyzed: 07/12/23						
Aluminum	0.503	0.050	mg/L	0.500		101	80-120			
Antimony	0.534	0.050	mg/L	0.500		107	80-120			
Barium	0.522	0.050	mg/L	0.500		104	80-120			
Beryllium	0.515	0.0040	mg/L	0.500		103	80-120			
Cadmium	0.514	0.0040	mg/L	0.500		103	80-120			
Calcium	3.88	0.50	mg/L	4.00		96.9	80-120			
Chromium	0.516	0.010	mg/L	0.500		103	80-120			
Cobalt	0.513	0.010	mg/L	0.500		103	80-120			
Copper	0.987	0.010	mg/L	1.00		98.7	80-120			
Iron	3.99	0.050	mg/L	4.00		99.8	80-120			
Magnesium	3.83	0.050	mg/L	4.00		95.7	80-120			
Manganese	0.496	0.010	mg/L	0.500		99.2	80-120			
Nickel	0.516	0.010	mg/L	0.500		103	80-120			
Potassium	4.03	2.0	mg/L	4.00		101	80-120			
Selenium	0.518	0.050	mg/L	0.500		104	80-120			
Silver	0.583	0.010	mg/L	0.500		117	80-120			
Sodium	4.05	2.0	mg/L	4.00		101	80-120			
Thallium	0.494	0.050	mg/L	0.500		98.8	80-120			
Vanadium	0.518	0.010	mg/L	0.500		104	80-120			
Zinc	1.03	0.010	mg/L	1.00		103	80-120			
LCS (B345508-BS2)				Prepared: 07/10/23 Analyzed: 07/13/23						
Lead	0.538	0.010	mg/L	0.500		108	80-120			
LCS Dup (B345508-BSD1)				Prepared: 07/10/23 Analyzed: 07/12/23						
Aluminum	0.489	0.050	mg/L	0.500		97.8	80-120	2.77	20	
Antimony	0.523	0.050	mg/L	0.500		105	80-120	2.14	20	
Barium	0.505	0.050	mg/L	0.500		101	80-120	3.28	20	
Beryllium	0.507	0.0040	mg/L	0.500		101	80-120	1.45	20	
Cadmium	0.499	0.0040	mg/L	0.500		99.8	80-120	2.93	20	
Calcium	3.80	0.50	mg/L	4.00		95.1	80-120	1.90	20	
Chromium	0.500	0.010	mg/L	0.500		99.9	80-120	3.23	20	
Cobalt	0.497	0.010	mg/L	0.500		99.5	80-120	3.12	20	
Copper	0.957	0.010	mg/L	1.00		95.7	80-120	3.12	20	
Iron	3.94	0.050	mg/L	4.00		98.6	80-120	1.20	20	
Magnesium	3.78	0.050	mg/L	4.00		94.4	80-120	1.36	20	
Manganese	0.487	0.010	mg/L	0.500		97.4	80-120	1.81	20	
Nickel	0.498	0.010	mg/L	0.500		99.7	80-120	3.41	20	
Potassium	3.94	2.0	mg/L	4.00		98.6	80-120	2.24	20	
Selenium	0.500	0.050	mg/L	0.500		99.9	80-120	3.54	20	
Silver	0.566	0.010	mg/L	0.500		113	80-120	2.81	20	
Sodium	3.95	2.0	mg/L	4.00		98.8	80-120	2.41	20	
Thallium	0.482	0.050	mg/L	0.500		96.4	80-120	2.45	20	
Vanadium	0.501	0.010	mg/L	0.500		100	80-120	3.36	20	
Zinc	0.993	0.010	mg/L	1.00		99.3	80-120	3.94	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B345508 - SW-846 3005A Dissolved											
LCS Dup (B345508-BSD2)				Prepared: 07/10/23 Analyzed: 07/13/23							
Lead	0.533	0.010	mg/L	0.500		107		80-120	0.789	20	
Duplicate (B345508-DUP1)		**Source: 23G0004-19**		Prepared: 07/10/23 Analyzed: 07/12/23							
Aluminum	ND	0.050	mg/L		ND				NC	20	
Antimony	ND	0.050	mg/L		ND				NC	20	
Barium	0.0267	0.050	mg/L		0.0265				0.852	20	J
Beryllium	ND	0.0040	mg/L		ND				NC	20	
Cadmium	0.00522	0.0040	mg/L		0.00529				1.24	20	
Calcium	33.9	0.50	mg/L		34.4				1.65	20	
Chromium	ND	0.010	mg/L		ND				NC	20	
Cobalt	ND	0.010	mg/L		ND				NC	20	
Copper	ND	0.010	mg/L		ND				NC	20	
Iron	0.0635	0.050	mg/L		0.0609				4.24	20	
Magnesium	4.54	0.050	mg/L		4.60				1.49	20	
Manganese	0.0127	0.010	mg/L		0.0129				1.93	20	
Nickel	ND	0.010	mg/L		ND				NC	20	
Potassium	1.77	2.0	mg/L		1.78				0.483	20	J
Selenium	ND	0.050	mg/L		ND				NC	20	
Silver	ND	0.010	mg/L		ND				NC	20	
Sodium	25.8	2.0	mg/L		26.4				2.13	20	
Thallium	ND	0.050	mg/L		ND				NC	20	
Vanadium	ND	0.010	mg/L		ND				NC	20	
Zinc	ND	0.010	mg/L		ND				NC	20	
Duplicate (B345508-DUP2)		**Source: 23G0004-19**		Prepared: 07/10/23 Analyzed: 07/13/23							
Lead	ND	0.010	mg/L		ND				NC	20	
Matrix Spike (B345508-MS1)		**Source: 23G0004-19**		Prepared: 07/10/23 Analyzed: 07/12/23							
Aluminum	0.514	0.050	mg/L	0.500	ND	103		75-125			
Antimony	0.544	0.050	mg/L	0.500	ND	109		75-125			
Barium	0.538	0.050	mg/L	0.500	0.0265	102		75-125			
Beryllium	0.529	0.0040	mg/L	0.500	ND	106		75-125			
Cadmium	0.513	0.0040	mg/L	0.500	0.00529	101		75-125			
Calcium	37.2	0.50	mg/L	4.00	34.4	**69.4**	*	75-125			MS-19
Chromium	0.507	0.010	mg/L	0.500	ND	101		75-125			
Cobalt	0.503	0.010	mg/L	0.500	ND	101		75-125			
Copper	0.994	0.010	mg/L	1.00	ND	99.4		75-125			
Iron	4.25	0.050	mg/L	4.00	0.0609	105		75-125			
Magnesium	8.34	0.050	mg/L	4.00	4.60	93.4		75-125			
Manganese	0.516	0.010	mg/L	0.500	0.0129	101		75-125			
Nickel	0.503	0.010	mg/L	0.500	ND	101		75-125			
Potassium	5.76	2.0	mg/L	4.00	1.78	99.6		75-125			
Selenium	0.525	0.050	mg/L	0.500	ND	105		75-125			
Silver	0.578	0.010	mg/L	0.500	ND	116		75-125			
Sodium	29.4	2.0	mg/L	4.00	26.4	76.3		75-125			
Thallium	0.481	0.050	mg/L	0.500	ND	96.2		75-125			
Vanadium	0.516	0.010	mg/L	0.500	ND	103		75-125			
Zinc	1.02	0.010	mg/L	1.00	ND	102		75-125			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B345508 - SW-846 3005A Dissolved										
Matrix Spike (B345508-MS2)		**Source: 23G0004-19**		Prepared: 07/10/23 Analyzed: 07/13/23						
Lead	0.536	0.010	mg/L	0.500	ND	107	75-125			
Batch B346013 - SW-846 7470A Dissolved										
Blank (B346013-BLK1)				Prepared: 07/14/23 Analyzed: 07/18/23						
Mercury	ND	0.00020	mg/L							
LCS (B346013-BS1)				Prepared: 07/14/23 Analyzed: 07/18/23						
Mercury	0.00399	0.00020	mg/L	0.00402		99.2	80-120			
LCS Dup (B346013-BSD1)				Prepared: 07/14/23 Analyzed: 07/18/23						
Mercury	0.00409	0.00020	mg/L	0.00402		102	80-120	2.57	20	
Batch B346116 - SW-846 3005A Dissolved										
Blank (B346116-BLK1)				Prepared: 07/17/23 Analyzed: 07/18/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B346116-BLK2)				Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Blank (B346116-BLK3)				Prepared: 07/17/23 Analyzed: 07/25/23						
Zinc	0.0048	0.010	mg/L							B, J

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346116 - SW-846 3005A Dissolved										
LCS (B346116-BS1)				Prepared: 07/17/23 Analyzed: 07/18/23						
Aluminum	0.534	0.050	mg/L	0.500		107	80-120			
Antimony	0.543	0.050	mg/L	0.500		109	80-120			
Barium	0.546	0.050	mg/L	0.500		109	80-120			
Beryllium	0.548	0.0040	mg/L	0.500		110	80-120			
Cadmium	0.522	0.0040	mg/L	0.500		104	80-120			
Calcium	4.14	0.50	mg/L	4.00		104	80-120			
Chromium	0.537	0.010	mg/L	0.500		107	80-120			
Cobalt	0.538	0.010	mg/L	0.500		108	80-120			
Iron	4.26	0.050	mg/L	4.00		106	80-120			
Magnesium	4.12	0.050	mg/L	4.00		103	80-120			
Manganese	0.532	0.010	mg/L	0.500		106	80-120			
Nickel	0.542	0.010	mg/L	0.500		108	80-120			
Potassium	4.26	2.0	mg/L	4.00		107	80-120			
Silver	0.566	0.010	mg/L	0.500		113	80-120			
Sodium	4.28	2.0	mg/L	4.00		107	80-120			
Thallium	0.503	0.050	mg/L	0.500		101	80-120			
Vanadium	0.538	0.010	mg/L	0.500		108	80-120			
Zinc	1.09	0.010	mg/L	1.00		109	80-120			
LCS (B346116-BS2)				Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.07	0.010	mg/L	1.00		107	80-120			
Lead	0.543	0.010	mg/L	0.500		109	80-120			
Selenium	0.525	0.050	mg/L	0.500		105	80-120			
LCS Dup (B346116-BSD1)				Prepared: 07/17/23 Analyzed: 07/18/23						
Aluminum	0.546	0.050	mg/L	0.500		109	80-120	2.34	20	
Antimony	0.551	0.050	mg/L	0.500		110	80-120	1.43	20	
Barium	0.545	0.050	mg/L	0.500		109	80-120	0.270	20	
Beryllium	0.564	0.0040	mg/L	0.500		113	80-120	2.82	20	
Cadmium	0.519	0.0040	mg/L	0.500		104	80-120	0.617	20	
Calcium	4.25	0.50	mg/L	4.00		106	80-120	2.50	20	
Chromium	0.535	0.010	mg/L	0.500		107	80-120	0.386	20	
Cobalt	0.538	0.010	mg/L	0.500		108	80-120	0.105	20	
Iron	4.40	0.050	mg/L	4.00		110	80-120	3.23	20	
Magnesium	4.24	0.050	mg/L	4.00		106	80-120	3.05	20	
Manganese	0.548	0.010	mg/L	0.500		110	80-120	3.07	20	
Nickel	0.538	0.010	mg/L	0.500		108	80-120	0.770	20	
Potassium	4.41	2.0	mg/L	4.00		110	80-120	3.37	20	
Silver	0.568	0.010	mg/L	0.500		114	80-120	0.366	20	
Sodium	4.41	2.0	mg/L	4.00		110	80-120	3.01	20	
Thallium	0.503	0.050	mg/L	0.500		101	80-120	0.000522	20	
Vanadium	0.536	0.010	mg/L	0.500		107	80-120	0.417	20	
Zinc	1.08	0.010	mg/L	1.00		108	80-120	0.474	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346116 - SW-846 3005A Dissolved										
LCS Dup (B346116-BSD2)				Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.07	0.010	mg/L	1.00		107	80-120	0.325	20	
Lead	0.545	0.010	mg/L	0.500		109	80-120	0.346	20	
Selenium	0.532	0.050	mg/L	0.500		106	80-120	1.20	20	
Matrix Spike (B346116-MS1)		**Source: 23G0004-03**		Prepared: 07/17/23 Analyzed: 07/18/23						
Cadmium	0.529	0.0040	mg/L	0.500	ND	106	75-125			
Chromium	0.537	0.010	mg/L	0.500	ND	107	75-125			
Matrix Spike (B346116-MS2)		**Source: 23G0004-17**		Prepared: 07/17/23 Analyzed: 07/18/23						
Aluminum	0.542	0.050	mg/L	0.500	ND	108	75-125			
Antimony	0.560	0.050	mg/L	0.500	ND	112	75-125			
Barium	0.547	0.050	mg/L	0.500	0.00538	108	75-125			
Beryllium	0.554	0.0040	mg/L	0.500	ND	111	75-125			
Cadmium	0.522	0.0040	mg/L	0.500	ND	104	75-125			
Calcium	16.1	0.50	mg/L	4.00	11.7	108	75-125			
Chromium	0.532	0.010	mg/L	0.500	ND	106	75-125			
Cobalt	0.531	0.010	mg/L	0.500	ND	106	75-125			
Iron	4.31	0.050	mg/L	4.00	ND	108	75-125			
Magnesium	5.38	0.050	mg/L	4.00	1.21	104	75-125			
Manganese	0.539	0.010	mg/L	0.500	ND	108	75-125			
Nickel	0.536	0.010	mg/L	0.500	ND	107	75-125			
Potassium	5.65	2.0	mg/L	4.00	1.27	110	75-125			
Silver	0.569	0.010	mg/L	0.500	ND	114	75-125			
Sodium	11.9	2.0	mg/L	4.00	7.45	111	75-125			
Thallium	0.502	0.050	mg/L	0.500	ND	100	75-125			
Vanadium	0.534	0.010	mg/L	0.500	ND	107	75-125			
Matrix Spike (B346116-MS3)		**Source: 23G0004-03**		Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.10	0.010	mg/L	1.00	ND	110	75-125			
Lead	0.543	0.010	mg/L	0.500	ND	109	75-125			
Selenium	0.558	0.050	mg/L	0.500	ND	112	75-125			
Matrix Spike (B346116-MS4)		**Source: 23G0004-17**		Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.08	0.010	mg/L	1.00	ND	108	75-125			
Lead	0.536	0.010	mg/L	0.500	ND	107	75-125			
Selenium	0.535	0.050	mg/L	0.500	ND	107	75-125			
Matrix Spike Dup (B346116-MSD1)		**Source: 23G0004-03**		Prepared: 07/17/23 Analyzed: 07/18/23						
Cadmium	0.522	0.0040	mg/L	0.500	ND	104	75-125	1.29	20	
Chromium	0.529	0.010	mg/L	0.500	ND	106	75-125	1.49	20	
Matrix Spike Dup (B346116-MSD2)		**Source: 23G0004-17**		Prepared: 07/17/23 Analyzed: 07/18/23						
Aluminum	0.535	0.050	mg/L	0.500	ND	107	75-125	1.38	20	
Antimony	0.547	0.050	mg/L	0.500	ND	109	75-125	2.32	20	
Barium	0.544	0.050	mg/L	0.500	0.00538	108	75-125	0.562	20	
Beryllium	0.559	0.0040	mg/L	0.500	ND	112	75-125	0.765	20	
Cadmium	0.524	0.0040	mg/L	0.500	ND	105	75-125	0.379	20	
Calcium	16.2	0.50	mg/L	4.00	11.7	111	75-125	0.708	20	
Chromium	0.530	0.010	mg/L	0.500	ND	106	75-125	0.447	20	
Cobalt	0.530	0.010	mg/L	0.500	ND	106	75-125	0.206	20	
Iron	4.35	0.050	mg/L	4.00	ND	109	75-125	0.740	20	
Magnesium	5.39	0.050	mg/L	4.00	1.21	104	75-125	0.195	20	
Manganese	0.540	0.010	mg/L	0.500	ND	108	75-125	0.172	20	
Nickel	0.532	0.010	mg/L	0.500	ND	106	75-125	0.690	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346116 - SW-846 3005A Dissolved										
Matrix Spike Dup (B346116-MSD2)	**Source: 23G0004-17**			Prepared: 07/17/23 Analyzed: 07/18/23						
Potassium	5.60	2.0	mg/L	4.00	1.27	108	75-125	0.939	20	
Silver	0.567	0.010	mg/L	0.500	ND	113	75-125	0.296	20	
Sodium	11.8	2.0	mg/L	4.00	7.45	110	75-125	0.496	20	
Thallium	0.492	0.050	mg/L	0.500	ND	98.3	75-125	2.10	20	
Vanadium	0.532	0.010	mg/L	0.500	ND	106	75-125	0.346	20	
Matrix Spike Dup (B346116-MSD3)	**Source: 23G0004-03**			Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.08	0.010	mg/L	1.00	ND	108	75-125	1.10	20	
Lead	0.532	0.010	mg/L	0.500	ND	106	75-125	1.97	20	
Selenium	0.543	0.050	mg/L	0.500	ND	109	75-125	2.73	20	
Matrix Spike Dup (B346116-MSD4)	**Source: 23G0004-17**			Prepared: 07/17/23 Analyzed: 07/21/23						
Copper	1.05	0.010	mg/L	1.00	ND	105	75-125	2.81	20	
Lead	0.527	0.010	mg/L	0.500	ND	105	75-125	1.76	20	
Selenium	0.523	0.050	mg/L	0.500	ND	105	75-125	2.32	20	
Batch B346701 - SW-846 3005A Dissolved										
Blank (B346701-BLK1)				Prepared: 07/17/23 Analyzed: 07/20/23						
Arsenic	ND	0.80	µg/L							
LCS (B346701-BS1)				Prepared: 07/17/23 Analyzed: 07/20/23						
Arsenic	519	8.0	µg/L	500		104	80-120			
LCS Dup (B346701-BSD1)				Prepared: 07/17/23 Analyzed: 07/20/23						
Arsenic	520	8.0	µg/L	500		104	80-120	0.136	20	
Matrix Spike (B346701-MS2)	**Source: 23G0004-17**			Prepared: 07/17/23 Analyzed: 07/20/23						
Arsenic	521	8.0	µg/L	500	ND	104	75-125			
Matrix Spike Dup (B346701-MSD2)	**Source: 23G0004-17**			Prepared: 07/17/23 Analyzed: 07/20/23						
Arsenic	520	8.0	µg/L	500	ND	104	75-125	0.215	20	
Batch B347134 - SW-846 3005A Dissolved										
Blank (B347134-BLK1)				Prepared: 07/26/23 Analyzed: 07/27/23						
Arsenic	ND	0.80	µg/L							
LCS (B347134-BS1)				Prepared: 07/26/23 Analyzed: 07/27/23						
Arsenic	519	8.0	µg/L	500		104	80-120			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347134 - SW-846 3005A Dissolved										
LCS Dup (B347134-BSD1)				Prepared: 07/26/23 Analyzed: 07/27/23						
Arsenic	524	8.0	µg/L	500		105	80-120	0.912	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
B-06	Continuing calibration blank did not meet method specified criteria. Data is not affected since all associated samples were "Not Detected" even though CCB value was above the reporting limit.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
M-08	The interference check sample was outside of control limits. Data validation is not affected since the sample result is "not detected" and the bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010 in Water	
Hardness	CT,MA,NH,NY
SW-846 6010D in Product/Solid	
Antimony	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Soil	
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Aluminum	CT,NY,NH,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Barium	MA,NY,CT,NH,NC,ME,VA
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,NC,ME,VA
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Manganese	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,NC,VA
Sodium	CT,NH,NY,NC,ME,VA
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,RI,NC,VA
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,NC,VA
SW-846 6020B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
Mercury	CT,NH,NY,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	EA Engineering
Address:	2169 W Jefferson St. Syracuse, NY 13202
Phone:	(585) 322-2140
Project Name:	Dzus Fastener Co.
Project Location:	West Islip, NY
Project Number:	16025151 0004
Project Manager:	Hilary Williams
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	Haley Young

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
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals+Mercury (6010C)	Diss. TAL Metals+Mercury (6010C)	Diss. Cadmium+Chromium (6010C)	Total Hardness (2340C)	Total Cadmium+Chromium (6010C)
1	152033-SM-SD-09-0623	6/26/23	1200	X		SOL						X
2	152033-SM-SD-08-0623	6/26/23	1220	X		SOL						X
3	152033-SM-SW-01-0623	6/26/23	1255		X	O'				X	X	
	152033-SM-SW-01-MS-0623	6/26/23	1255		X	O'				X	X	
	152033-SM-SW-01-MSD-0623	6/26/23	1255		X	O'				X	X	
4	152033-SM-SD-01-0623	6/26/23	1318	X		SOL						X
	152033-SM-SD-01-MS-0623	6/26/23	1318	X		SOL						X
	152033-SM-SD-01-MSD-0623	6/26/23	1318	X		SOL						X
5	152033-SM-MW-22B-0623	6/26/23	1551		X	GW		X	X			
6	152033-SM-MW-22A-0623	6/26/23	1555		X	GW		X	X			

ANALYSIS REQUESTED

	2	2	3	3	5
[2] Preservation Code	N	N	N	N	I
[3] Container Code	P	P	P	P	A

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[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)

Comments:
O' = Surface water
* 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

		Date/Time:
Relinquished by: (signature)	Haley Young	6/29/23 1345
Received by: (signature)		6.29 1345
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time: 6/30/23 0645
Relinquished by: (signature)		Date/Time: 6/30 0915
Received by: (signature)		Date/Time: 6/30 0915

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

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Pace Analytical®

Phone: 612-607-6400
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:	EA Engineering
Address:	217 W. Jefferson St. Syracuse, NY 13202
Phone:	(585) 322-2140
Project Name:	Dzus Fasteners Co.
Project Location:	West Islip, NY
Project Number:	14025151/0004
Project Manager:	Hilary Williams
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	Haley Young

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
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#		Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals + Mercury (6010C)	Diss TAL Metals + Mercury (6010C)	PFAS (1633)									
	7	152033-SM-MW-1-0623	6/26/23	1715		X	GW		X	X										
	8	152033-SM-MW-3-0623	6/26/23	1738		X	GW		X	X										
	9	152033-SM-MW-15A-0623	6/27/23	0822		X	GW		X	X										
	10	152033-SM-MW-15B-0623	6/27/23	0830		X	GW		X	X										
11	12	152033-SM-MW-2-0623	6/27/23	0928		X	GW		X	X										
12	13	152033-SM-MW-17-0623	6/27/23	1050		X	GW		X	X	X									
13	14	152033-SM-MW-23B-0623	6/27/23	1133		X	GW		X	X										
14	15	152033-SM-MW-23A-0623	6/27/23	1232		X	GW		X	X										
15	16	152033-SM-MW-13B-0623	6/27/23	1324		X	GW		X	X										
16	17	152033-SM-MW-13A-0623	6/27/23	1355		X	GW		X	X	X									

AAM 7-1-23

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

	# of Containers	[2] Preservation Code	[3] Container Code
	10	10	6
	N	N	I
	P	P	P

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[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)	Haley Young
Date/Time:	6/29/23 1345
Received by: (signature)	
Date/Time:	6.29 1345
Relinquished by: (signature)	
Date/Time:	
Received by: (signature)	
Date/Time:	6/30 0645
Relinquished by: (signature)	
Date/Time:	6/30 0915
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

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

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:

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
CLP Like Data Pkg Required: ☐
Email To: bwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals + Mercury (6010C)	Diss. TAL Metals + Mercury (6010C)	PFAS (1633)	Total Cadmium + Chromium (6010)	Diss. Cadmium + Chromium (6010)	Total Hardness (2340C)
17 18	152033-SM-MW-18-0623	6/27/23	1506		x	GW		x	x	x			
	152033-SM-MW-18-MS-0623	6/27/23	1506		x	GW		x	x	x			
	152033-SM-MW-18-MSD-0623	6/27/23	1506		x	GW		x	x	x			
18 19	152033-SM-MW-9B-0623	6/27/23	1641		x	GW		x	x				
19 20	152033-SM-MW-9-0623	6/27/23	1643		x	GW		x	x	x			
*AM	152033-Field Blank-0623	6/27/23	1715		x	GW				x			
	152033-Equipment Blank-0623	6/27/23	1720		x	GW				x			
20	152033-SM-SD-FD-0623	6/26/23	—	x	x	SOL					x		
	152033-SM-SW-FD-0623	6/26/23	—		x	O'						x	x
	152033-SM-GW-FD1-0623	6/27/23	—		x	GW				x			

	# of Containers	[2] Preservation Code	[3] Container Code
	5	N	P
	5	N	P
	19	I	P
	1	I	A
	1	N	P
	1	N	P

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
O' = Surface water
* CAT B deliverable requested
* Extra volume sent for MW-18 MS/MSD samples in case needed

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
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O = Other (please define)

	Date/Time:
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Received by: (signature)	6.29 1345
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Program & Regulatory Information
☒ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
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Deliverables
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Project Entity
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Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace
PEOPLE ADVANCING SCIENCE

Client EA engineering
Project Dews Farmer CO
MCP/RCP Required N/A
Deliverable Package Requirement CAT B
Location West Side, NY
PWSID# (When Applicable) N/A
Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time MSM 6/30/23 915
Back-Sheet By / Date / Time LS 7/1/23 1001
Temperature Method Gun # 5
Temp ☑ ≤ 6° C Actual Temperature 5.0
Rush Samples: Yes / (No) Notify
Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑
Project ☑ IDs ☐ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

Sample	Soils Jars (Circle Amb/Clear)				Ambers						Plastics										VOA Vials					Other / Fill in				
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter			250mL			100mL	1 Liter		500mL		250mL					Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact				
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	NaOH/Zinc									
1		1																												
2		2																												
3																														
4		3																	6											
5																			2											
6																			1											
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																			1											
17																			6											
18																			2											
19																			4											
20	1																													

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December 6, 2023

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: West Islip, NY
Client Job Number:
Project Number: 152033
Laboratory Work Order Number: 23K2538

Enclosed are results of analyses for samples as received by the laboratory on November 17, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 12/6/2023

PURCHASE ORDER NUMBER: 136799

PROJECT NUMBER: 152033

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23K2538

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: West Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-MW-18	23K2538-01	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-SW-12	23K2538-02	Surface Water		SW-846 6010D	
152033-SW-FD-01	23K2538-03	Surface Water		SW-846 6010D	
152033-SW-01	23K2538-04	Surface Water		SW-846 6010D	
152033-SD-12	23K2538-05	Soil		SM 2540G	
				SW-846 6010D	
152033-SD-FD-01	23K2538-06	Soil		SM 2540G	
				SW-846 6010D	
152033-SD-01	23K2538-07	Soil		SM 2540G	
				SW-846 6010D	
152033-MW-17	23K2538-08	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-9B	23K2538-09	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-9	23K2538-10	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-13B	23K2538-11	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-13A	23K2538-12	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-FD-01	23K2538-13	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-23A	23K2538-14	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-23B	23K2538-15	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-22A	23K2538-16	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-22B	23K2538-17	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-3	23K2538-18	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-15A	23K2538-19	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-15B	23K2538-20	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-1	23K2538-21	Ground Water		SW-846 6010D	
				SW-846 7470A	
152033-MW-2	23K2538-22	Ground Water		SW-846 6010D	
				SW-846 7470A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010D

Qualifications:

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Lead

23K2538-08[152033-MW-17], 23K2538-09[152033-MW-9B], 23K2538-10[152033-MW-9], 23K2538- 11[152033-MW-13B], 23K2538-12[152033-MW-13A], 23K2538-13[152033-MW-FD-01], 23K2538-14[152033-MW-23A], 23K2538-15[152033-MW-23B], 23K2538-16[152033-MW-22A], 23K2538-17[152033-MW-22B], 23K2538-18[152033-MW-3], 23K2538-19[152033-MW-15A], B358776-BLK2

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum

23K2538-08[152033-MW-17], B359096-MS2, B359096-MSD2

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-18 | Sampled: 11/13/2023 11:47

Sample ID: 23K2538-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Barium	0.012	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:53	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:53	MJH
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Manganese	0.051	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:21	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Potassium	2.1	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Sodium	20	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:14	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:53	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-18 | Sampled: 11/13/2023 11:47

Sample ID: 23K2538-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:01	ATP
Barium	0.010	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Calcium	15	0.50	0.091	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Magnesium	1.6	0.050	0.016	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:33	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Potassium	2.1	2.0	0.33	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:01	ATP
Sodium	20	2.0	0.74	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:01	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/20/23	11/21/23 19:59	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-12 | Sampled: 11/13/2023 12:40

Sample ID: 23K2538-02

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	56	1.4		mg/L	1		SW-846 6010D	11/28/23	11/29/23 18:43	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-12 | Sampled: 11/13/2023 12:40

Sample ID: 23K2538-02

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0052	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 13:41	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 13:41	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-FD-01 | Sampled: 11/13/2023 00:00

Sample ID: 23K2538-03

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	60	1.4		mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:19	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-FD-01 | Sampled: 11/13/2023 00:00

Sample ID: 23K2538-03

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0046	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:42	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:42	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-01 | Sampled: 11/13/2023 13:40

Sample ID: 23K2538-04

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	61	1.4		mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:25	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SW-01 | Sampled: 11/13/2023 13:40

Sample ID: 23K2538-04

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0059	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:48	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:48	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-12 | Sampled: 11/13/2023 13:00

Sample ID: 23K2538-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	4.1	0.43	0.17	mg/Kg dry	1		SW-846 6010D	11/20/23	11/21/23 18:02	NC
Chromium	3.5	0.86	0.14	mg/Kg dry	1		SW-846 6010D	11/20/23	11/21/23 18:02	NC

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-12 | Sampled: 11/13/2023 13:00

Sample ID: 23K2538-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.5			% Wt	1		SM 2540G	11/20/23	11/20/23 8:23	DV

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-FD-01 | Sampled: 11/13/2023 00:00

Sample ID: 23K2538-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	19	0.52	0.20	mg/Kg dry	1		SW-846 6010D	11/20/23	11/21/23 20:06	NC
Chromium	18	1.0	0.16	mg/Kg dry	1		SW-846 6010D	11/20/23	11/21/23 20:06	NC

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-FD-01 | Sampled: 11/13/2023 00:00

Sample ID: 23K2538-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.3			% Wt	1		SM 2540G	11/20/23	11/20/23 8:23	DV

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-01 | Sampled: 11/13/2023 13:45

Sample ID: 23K2538-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.45	0.47	0.19	mg/Kg dry	1	J	SW-846 6010D	11/20/23	11/21/23 20:12	NC
Chromium	14	0.95	0.15	mg/Kg dry	1		SW-846 6010D	11/20/23	11/21/23 20:12	NC

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-SD-01 | Sampled: 11/13/2023 13:45

Sample ID: 23K2538-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.7			% Wt	1		SM 2540G	11/20/23	11/20/23 11:30	DV

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-17 | Sampled: 11/13/2023 15:32

Sample ID: 23K2538-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2.6	0.050	0.020	mg/L	1	MS-19	SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Barium	0.055	0.050	0.0057	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Cobalt	0.0048	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Copper	0.0086	0.010	0.0047	mg/L	1	J	SW-846 6010D	11/28/23	11/30/23 20:33	MJH
Iron	6.7	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Lead	0.036	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:33	MJH
Magnesium	2.5	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Manganese	1.2	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:23	AV
Nickel	0.0045	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Potassium	0.86	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Sodium	3.7	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Vanadium	0.0090	0.010	0.0071	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:08	ATP
Zinc	0.11	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:33	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-17 | Sampled: 11/13/2023 15:32

Sample ID: 23K2538-08

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.098	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:29	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Barium	0.028	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Calcium	11	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Cobalt	0.0025	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:29	MJH
Iron	0.87	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 17:29	MJH
Magnesium	2.4	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Manganese	0.83	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:34	AV
Nickel	0.0032	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Potassium	0.76	2.0	0.33	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Sodium	3.6	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:29	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH
Zinc	0.043	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:36	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-9B | Sampled: 11/13/2023 16:58

Sample ID: 23K2538-09

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.24	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Barium	0.018	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:59	MJH
Iron	0.34	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:59	MJH
Magnesium	2.1	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Manganese	0.019	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:25	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Potassium	1.9	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Sodium	15	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:30	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 20:59	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-9B | Sampled: 11/13/2023 16:58

Sample ID: 23K2538-09

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:34	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Barium	0.017	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:34	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 17:34	MJH
Magnesium	2.0	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Manganese	0.012	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:36	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Potassium	1.9	2.0	0.33	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Sodium	16	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:34	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:53	MJH
Zinc	0.0059	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:53	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-9 | Sampled: 11/13/2023 17:21

Sample ID: 23K2538-10

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.047	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Barium	0.027	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Cadmium	0.0085	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Calcium	32	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:05	MJH
Iron	0.066	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:05	MJH
Magnesium	4.2	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Manganese	0.41	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:26	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Potassium	2.7	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Sodium	21	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:48	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:05	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-9 | Sampled: 11/13/2023 17:21

Sample ID: 23K2538-10

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:41	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Barium	0.026	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Cadmium	0.0081	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Calcium	31	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:41	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 17:41	MJH
Magnesium	4.1	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Manganese	0.41	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:38	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Potassium	2.7	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Sodium	21	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:41	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 14:59	MJH
Zinc	0.0059	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 14:59	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-13B | Sampled: 11/14/2023 08:50

Sample ID: 23K2538-11

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.048	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Barium	0.077	0.050	0.0057	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Calcium	10	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Chromium	0.028	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:12	MJH
Iron	0.13	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:12	MJH
Magnesium	1.6	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Manganese	0.022	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:28	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Potassium	2.3	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Sodium	48	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:53	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:12	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-13B | Sampled: 11/14/2023 08:50

Sample ID: 23K2538-11

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:47	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Barium	0.076	0.050	0.0057	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Calcium	10	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Chromium	0.028	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:47	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 17:47	MJH
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Manganese	0.014	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:40	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Potassium	2.4	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Sodium	49	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:47	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:04	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-13A | Sampled: 11/14/2023 09:18

Sample ID: 23K2538-12

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.021	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Barium	0.025	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Cadmium	0.54	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Calcium	24	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Cobalt	0.0021	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:18	MJH
Iron	1.2	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:18	MJH
Magnesium	4.1	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Manganese	0.091	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:30	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Potassium	2.5	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Sodium	33	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 19:59	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:18	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-13A | Sampled: 11/14/2023 09:18

Sample ID: 23K2538-12

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:53	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Barium	0.023	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Cadmium	0.55	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Calcium	23	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:53	MJH
Iron	0.23	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 17:53	MJH
Magnesium	4.1	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Manganese	0.050	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:42	AV
Nickel	0.0032	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Potassium	2.6	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Sodium	33	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 17:53	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:10	MJH
Zinc	0.0045	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:10	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-FD-01 | Sampled: 11/14/2023 00:00

Sample ID: 23K2538-13

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.024	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Barium	0.024	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Cadmium	0.56	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Calcium	23	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Cobalt	0.0021	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:23	MJH
Iron	1.2	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:23	MJH
Magnesium	4.0	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Manganese	0.091	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:32	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Potassium	2.5	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Sodium	32	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:05	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:23	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-FD-01 | Sampled: 11/14/2023 00:00

Sample ID: 23K2538-13

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:13	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Barium	0.022	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Cadmium	0.51	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Calcium	23	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Cobalt	0.0020	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:13	MJH
Iron	0.24	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:13	MJH
Magnesium	4.2	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Manganese	0.051	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:44	AV
Nickel	0.0032	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Potassium	2.6	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Sodium	33	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:13	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:38	MJH
Zinc	0.0090	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:38	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-23A | Sampled: 11/14/2023 10:06

Sample ID: 23K2538-14

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.26	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Barium	0.021	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Cadmium	0.0056	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Calcium	29	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Copper	0.0049	0.010	0.0047	mg/L	1	J	SW-846 6010D	11/28/23	11/30/23 21:28	MJH
Iron	1.3	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:28	MJH
Magnesium	6.6	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Manganese	0.10	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:34	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Potassium	4.0	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Sodium	78	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:10	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:28	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-23A | Sampled: 11/14/2023 10:06

Sample ID: 23K2538-14

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.10	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:19	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Barium	0.021	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Calcium	29	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:19	MJH
Iron	0.82	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:19	MJH
Magnesium	6.7	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Manganese	0.10	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:46	AV
Nickel	0.0032	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Potassium	4.0	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Sodium	81	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:19	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:44	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-23B | Sampled: 11/14/2023 10:49

Sample ID: 23K2538-15

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.11	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:49	MJH
Barium	0.022	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Calcium	7.8	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Iron	0.17	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:49	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Manganese	0.011	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:49	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:40	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Sodium	10	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:49	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP
Zinc	0.026	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:43	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-23B | Sampled: 11/14/2023 10:49

Sample ID: 23K2538-15

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:24	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Barium	0.020	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Calcium	7.8	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:24	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:24	MJH
Magnesium	1.6	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Manganese	0.0093	0.010	0.0028	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:48	AV
Nickel	0.0051	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Potassium	1.4	2.0	0.33	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Sodium	11	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:24	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH
Zinc	0.025	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:49	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-22A | Sampled: 11/14/2023 11:25

Sample ID: 23K2538-16

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.068	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Barium	0.026	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Cadmium	0.0016	0.0040	0.0013	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Calcium	83	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:34	MJH
Iron	4.4	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:34	MJH
Magnesium	12	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Manganese	0.60	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:42	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Potassium	0.97	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Sodium	18	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:16	ATP
Zinc	0.062	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:34	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-22A | Sampled: 11/14/2023 11:25

Sample ID: 23K2538-16

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:30	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Barium	0.025	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Calcium	81	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Chromium	0.016	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Cobalt	0.0019	0.010	0.0017	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:30	MJH
Iron	3.9	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:30	MJH
Magnesium	12	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Manganese	0.59	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:54	AV
Nickel	0.0059	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Potassium	1.0	2.0	0.33	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Sodium	18	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:30	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 15:55	MJH
Zinc	0.0045	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 15:55	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-22B | Sampled: 11/14/2023 11:50

Sample ID: 23K2538-17

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:55	MJH
Barium	0.027	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Calcium	23	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Iron	0.074	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:55	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Magnesium	3.7	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Manganese	0.62	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:55	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:44	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Potassium	2.8	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Sodium	16	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	12/2/23 18:55	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/29/23 17:49	ATP

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-22B | Sampled: 11/14/2023 11:50

Sample ID: 23K2538-17

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:36	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Barium	0.025	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Calcium	23	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:36	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:36	MJH
Magnesium	3.7	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Manganese	0.45	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:56	AV
Nickel	0.0025	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Potassium	2.8	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Sodium	18	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:36	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:01	MJH
Zinc	0.0050	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:01	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-3 | Sampled: 11/14/2023 13:08

Sample ID: 23K2538-18

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.20	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Barium	0.015	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Cadmium	0.018	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:39	MJH
Iron	0.18	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:39	MJH
Magnesium	2.5	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Manganese	0.14	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:46	AV
Nickel	0.0051	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Potassium	3.7	2.0	0.33	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Sodium	16	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:21	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:39	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-3 | Sampled: 11/14/2023 13:08

Sample ID: 23K2538-18

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.041	0.050	0.020	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:42	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Barium	0.016	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:42	MJH
Iron	0.037	0.050	0.023	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:42	MJH
Magnesium	2.6	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Manganese	0.15	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 11:58	AV
Nickel	0.0065	0.010	0.0024	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Potassium	4.0	2.0	0.33	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Sodium	17	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:42	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:06	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-15A | Sampled: 11/14/2023 13:15

Sample ID: 23K2538-19

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.039	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Barium	0.0084	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Cadmium	0.016	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Calcium	10	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:45	MJH
Iron	0.066	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:45	MJH
Magnesium	1.1	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Manganese	0.27	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:48	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Potassium	1.4	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Sodium	15	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:27	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 21:45	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-15A | Sampled: 11/14/2023 13:15

Sample ID: 23K2538-19

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:48	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Barium	0.0062	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Calcium	10	0.50	0.091	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:48	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Lead	ND	0.010	0.0065	mg/L	1	B-05	SW-846 6010D	11/21/23	11/30/23 18:48	MJH
Magnesium	1.2	0.050	0.016	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:00	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Sodium	15	2.0	0.74	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/21/23	11/30/23 18:48	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/21/23	11/22/23 16:16	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-15B | Sampled: 11/14/2023 14:06

Sample ID: 23K2538-20

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.025	0.050	0.020	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Barium	0.039	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:05	MJH
Iron	2.4	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:05	MJH
Magnesium	5.2	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Manganese	0.13	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:50	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Sodium	35	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:32	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:05	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-15B | Sampled: 11/14/2023 14:06

Sample ID: 23K2538-20

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.028	0.050	0.020	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:06	ATP
Barium	0.038	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Iron	1.9	0.050	0.023	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Magnesium	5.0	0.050	0.016	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Manganese	0.13	0.010	0.0028	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:02	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:06	ATP
Sodium	35	2.0	0.74	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:06	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:06	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-1 | Sampled: 11/14/2023 15:01

Sample ID: 23K2538-21

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.065	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Barium	0.014	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:10	MJH
Iron	0.12	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:10	MJH
Magnesium	2.6	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Manganese	0.017	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:51	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Potassium	0.82	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Sodium	21	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:38	ATP
Zinc	0.0085	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/28/23	11/30/23 22:10	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-1 | Sampled: 11/14/2023 15:01

Sample ID: 23K2538-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:12	ATP
Barium	0.013	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Magnesium	2.5	0.050	0.016	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:04	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Potassium	0.85	2.0	0.33	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:12	ATP
Sodium	20	2.0	0.74	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:12	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:11	MJH
Zinc	0.0075	0.010	0.0040	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:11	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-2 | Sampled: 11/14/2023 15:31

Sample ID: 23K2538-22

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Barium	0.026	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Cadmium	0.0038	0.0040	0.0013	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Calcium	17	0.50	0.091	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:16	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:16	MJH
Magnesium	2.9	0.050	0.016	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:53	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/28/23	12/6/23 13:49	HNN
Sodium	39	2.0	0.74	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/28/23	11/29/23 20:56	ATP
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/28/23	11/30/23 22:16	MJH

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Project Location: West Islip, NY | Sample Description: | Work Order: 23K2538

Date Received: 11/17/2023

Field Sample #: 152033-MW-2 | Sampled: 11/14/2023 15:31

Sample ID: 23K2538-22

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:17	ATP
Barium	0.025	0.050	0.0057	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Cadmium	0.0035	0.0040	0.0013	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Magnesium	2.7	0.050	0.016	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Mercury	ND	0.00020	0.00014	mg/L	1		SW-846 7470A	11/30/23	12/1/23 12:05	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:17	ATP
Sodium	39	2.0	0.74	mg/L	1		SW-846 6010D	11/20/23	11/30/23 12:17	ATP
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	11/20/23	11/21/23 20:17	MJH

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Sample Extraction Data

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
23K2538-05 [152033-SD-12]	B358571	11/20/23
23K2538-06 [152033-SD-FD-01]	B358571	11/20/23

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
23K2538-07 [152033-SD-01]	B358620	11/20/23

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23K2538-05 [152033-SD-12]	B358600	1.53	50.0	11/20/23
23K2538-06 [152033-SD-FD-01]	B358600	1.56	50.0	11/20/23
23K2538-07 [152033-SD-01]	B358600	1.56	50.0	11/20/23

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-01 [152033-MW-18]	B358635	50.0	50.0	11/20/23
23K2538-20 [152033-MW-15B]	B358635	50.0	50.0	11/20/23
23K2538-21 [152033-MW-1]	B358635	50.0	50.0	11/20/23
23K2538-22 [152033-MW-2]	B358635	50.0	50.0	11/20/23

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-02 [152033-SW-12]	B358776	50.0	50.0	11/21/23
23K2538-03 [152033-SW-FD-01]	B358776	50.0	50.0	11/21/23
23K2538-04 [152033-SW-01]	B358776	50.0	50.0	11/21/23
23K2538-08 [152033-MW-17]	B358776	50.0	50.0	11/21/23
23K2538-09 [152033-MW-9B]	B358776	50.0	50.0	11/21/23
23K2538-10 [152033-MW-9]	B358776	50.0	50.0	11/21/23
23K2538-11 [152033-MW-13B]	B358776	50.0	50.0	11/21/23
23K2538-12 [152033-MW-13A]	B358776	50.0	50.0	11/21/23
23K2538-13 [152033-MW-FD-01]	B358776	50.0	50.0	11/21/23
23K2538-14 [152033-MW-23A]	B358776	50.0	50.0	11/21/23
23K2538-15 [152033-MW-23B]	B358776	50.0	50.0	11/21/23
23K2538-16 [152033-MW-22A]	B358776	50.0	50.0	11/21/23
23K2538-17 [152033-MW-22B]	B358776	50.0	50.0	11/21/23
23K2538-18 [152033-MW-3]	B358776	50.0	50.0	11/21/23
23K2538-19 [152033-MW-15A]	B358776	50.0	50.0	11/21/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-01 [152033-MW-18]	B359096	50.0	50.0	11/28/23
23K2538-02 [152033-SW-12]	B359096	50.0		11/28/23
23K2538-03 [152033-SW-FD-01]	B359096	50.0		11/28/23
23K2538-04 [152033-SW-01]	B359096	50.0		11/28/23

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Sample Extraction Data

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-08 [152033-MW-17]	B359096	50.0	50.0	11/28/23
23K2538-09 [152033-MW-9B]	B359096	50.0	50.0	11/28/23
23K2538-10 [152033-MW-9]	B359096	50.0	50.0	11/28/23
23K2538-11 [152033-MW-13B]	B359096	50.0	50.0	11/28/23
23K2538-12 [152033-MW-13A]	B359096	50.0	50.0	11/28/23
23K2538-13 [152033-MW-FD-01]	B359096	50.0	50.0	11/28/23
23K2538-14 [152033-MW-23A]	B359096	50.0	50.0	11/28/23
23K2538-16 [152033-MW-22A]	B359096	50.0	50.0	11/28/23
23K2538-18 [152033-MW-3]	B359096	50.0	50.0	11/28/23
23K2538-19 [152033-MW-15A]	B359096	50.0	50.0	11/28/23
23K2538-20 [152033-MW-15B]	B359096	50.0	50.0	11/28/23
23K2538-21 [152033-MW-1]	B359096	50.0	50.0	11/28/23
23K2538-22 [152033-MW-2]	B359096	50.0	50.0	11/28/23

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-15 [152033-MW-23B]	B359098	50.0	50.0	11/28/23
23K2538-17 [152033-MW-22B]	B359098	50.0	50.0	11/28/23

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-01 [152033-MW-18]	B359348	10.0	10.0	11/30/23
23K2538-08 [152033-MW-17]	B359348	10.0	10.0	11/30/23
23K2538-09 [152033-MW-9B]	B359348	10.0	10.0	11/30/23
23K2538-10 [152033-MW-9]	B359348	10.0	10.0	11/30/23
23K2538-11 [152033-MW-13B]	B359348	10.0	10.0	11/30/23
23K2538-12 [152033-MW-13A]	B359348	10.0	10.0	11/30/23
23K2538-13 [152033-MW-FD-01]	B359348	10.0	10.0	11/30/23
23K2538-14 [152033-MW-23A]	B359348	10.0	10.0	11/30/23
23K2538-15 [152033-MW-23B]	B359348	10.0	10.0	11/30/23
23K2538-16 [152033-MW-22A]	B359348	10.0	10.0	11/30/23
23K2538-17 [152033-MW-22B]	B359348	10.0	10.0	11/30/23
23K2538-18 [152033-MW-3]	B359348	10.0	10.0	11/30/23
23K2538-19 [152033-MW-15A]	B359348	10.0	10.0	11/30/23
23K2538-20 [152033-MW-15B]	B359348	10.0	10.0	11/30/23
23K2538-21 [152033-MW-1]	B359348	10.0	10.0	11/30/23
23K2538-22 [152033-MW-2]	B359348	10.0	10.0	11/30/23

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-01 [152033-MW-18]	B359406	10.0	10.0	11/30/23
23K2538-08 [152033-MW-17]	B359406	10.0	10.0	11/30/23
23K2538-09 [152033-MW-9B]	B359406	10.0	10.0	11/30/23
23K2538-10 [152033-MW-9]	B359406	10.0	10.0	11/30/23
23K2538-11 [152033-MW-13B]	B359406	10.0	10.0	11/30/23
23K2538-12 [152033-MW-13A]	B359406	10.0	10.0	11/30/23
23K2538-13 [152033-MW-FD-01]	B359406	10.0	10.0	11/30/23
23K2538-14 [152033-MW-23A]	B359406	10.0	10.0	11/30/23

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Sample Extraction Data

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23K2538-15 [152033-MW-23B]	B359406	10.0	10.0	11/30/23
23K2538-16 [152033-MW-22A]	B359406	10.0	10.0	11/30/23
23K2538-17 [152033-MW-22B]	B359406	10.0	10.0	11/30/23
23K2538-18 [152033-MW-3]	B359406	10.0	10.0	11/30/23
23K2538-19 [152033-MW-15A]	B359406	10.0	10.0	11/30/23
23K2538-20 [152033-MW-15B]	B359406	10.0	10.0	11/30/23
23K2538-21 [152033-MW-1]	B359406	10.0	10.0	11/30/23
23K2538-22 [152033-MW-2]	B359406	10.0	10.0	11/30/23

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358600 - SW-846 3050B										
Blank (B358600-BLK1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	ND	0.32	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
LCS (B358600-BS1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	106	0.99	mg/Kg wet	105		101	82.8-118.1			
Chromium	244	2.0	mg/Kg wet	232		105	81.5-118.5			
LCS Dup (B358600-BSD1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	100	1.0	mg/Kg wet	105		95.5	82.8-118.1	5.08	20	
Chromium	236	2.0	mg/Kg wet	232		102	81.5-118.5	3.67	30	
Matrix Spike (B358600-MS1)		**Source: 23K2538-05**		Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	26.6	0.42	mg/Kg dry	21.2	4.08	106	75-125			
Chromium	26.6	0.85	mg/Kg dry	21.2	3.47	109	75-125			
Matrix Spike Dup (B358600-MSD1)		**Source: 23K2538-05**		Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	25.8	0.42	mg/Kg dry	20.8	4.08	104	75-125	2.97	35	
Chromium	25.6	0.83	mg/Kg dry	20.8	3.47	106	75-125	3.81	35	
Post Spike (B358600-PS1)		**Source: 23K2538-05**		Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	1.96		mg/L	2.00	0.0945	93.4	75-125			
Chromium	2.07		mg/L	2.00	0.0803	99.6	75-125			
Dilution Check (B358600-SRL1)		**Source: 23K2538-05**		Prepared: 11/20/23 Analyzed: 11/21/23						
Cadmium	4.13	2.2	mg/Kg dry		4.08			1.21	20	
Chromium	3.31	4.3	mg/Kg dry		3.47			4.54	20	J
Batch B359096 - SW-846 3005A										
Blank (B359096-BLK1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Hardness	0.018	1.4	mg/L							J

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359096 - SW-846 3005A										
Blank (B359096-BLK2)				Prepared: 11/28/23 Analyzed: 11/30/23						
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B359096-BS1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	0.512	0.050	mg/L	0.500		102	45.3-154.7			
Antimony	0.499	0.050	mg/L	0.500		99.8	80-120			
Arsenic	0.480	0.010	mg/L	0.500		96.1	80-120			
Barium	0.516	0.050	mg/L	0.500		103	80-120			
Beryllium	0.535	0.0040	mg/L	0.500		107	80-120			
Cadmium	0.504	0.0040	mg/L	0.500		101	80-120			
Calcium	4.10	0.50	mg/L	4.00		102	80-120			
Chromium	0.502	0.010	mg/L	0.500		100	80-120			
Cobalt	0.504	0.010	mg/L	0.500		101	80-120			
Iron	4.05	0.050	mg/L	4.00		101	80-120			
Magnesium	4.18	0.050	mg/L	4.00		104	80-120			
Manganese	0.514	0.010	mg/L	0.500		103	80-120			
Nickel	0.512	0.010	mg/L	0.500		102	80-120			
Potassium	4.10	2.0	mg/L	4.00		102	80-120			
Selenium	0.510	0.050	mg/L	0.500		102	80-120			
Silver	0.526	0.010	mg/L	0.500		105	80-120			
Sodium	4.12	2.0	mg/L	4.00		103	80-120			
Thallium	0.469	0.050	mg/L	0.500		93.7	80-120			
Vanadium	0.510	0.010	mg/L	0.500		102	80-120			
Hardness	27	1.4	mg/L	26.4		104	80-120			
LCS (B359096-BS2)				Prepared: 11/28/23 Analyzed: 11/30/23						
Copper	0.980	0.010	mg/L	1.00		98.0	80-120			
Lead	0.508	0.010	mg/L	0.500		102	80-120			
Zinc	1.01	0.010	mg/L	1.00		101	80-120			
LCS Dup (B359096-BSD1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	0.536	0.050	mg/L	0.500		107	45.3-154.7	4.67	30	
Antimony	0.496	0.050	mg/L	0.500		99.2	80-120	0.553	20	
Arsenic	0.477	0.010	mg/L	0.500		95.3	80-120	0.773	20	
Barium	0.510	0.050	mg/L	0.500		102	80-120	1.14	20	
Beryllium	0.524	0.0040	mg/L	0.500		105	80-120	2.09	20	
Cadmium	0.498	0.0040	mg/L	0.500		99.7	80-120	1.14	20	
Calcium	4.11	0.50	mg/L	4.00		103	80-120	0.303	20	
Chromium	0.499	0.010	mg/L	0.500		99.7	80-120	0.730	20	
Cobalt	0.498	0.010	mg/L	0.500		99.7	80-120	1.13	20	
Iron	4.03	0.050	mg/L	4.00		101	80-120	0.656	20	
Magnesium	4.21	0.050	mg/L	4.00		105	80-120	0.717	20	
Manganese	0.511	0.010	mg/L	0.500		102	80-120	0.645	20	
Nickel	0.507	0.010	mg/L	0.500		101	80-120	1.08	30	
Potassium	4.16	2.0	mg/L	4.00		104	80-120	1.50	20	
Selenium	0.509	0.050	mg/L	0.500		102	80-120	0.0997	20	
Silver	0.522	0.010	mg/L	0.500		104	80-120	0.885	20	
Sodium	4.11	2.0	mg/L	4.00		103	80-120	0.304	20	
Thallium	0.463	0.050	mg/L	0.500		92.7	80-120	1.13	20	
Vanadium	0.505	0.010	mg/L	0.500		101	80-120	1.06	20	
Hardness	28	1.4	mg/L	26.4		104	80-120	0.563	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B359096 - SW-846 3005A											
LCS Dup (B359096-BSD2)				Prepared: 11/28/23 Analyzed: 11/30/23							
Copper	0.984	0.010	mg/L	1.00		98.4		80-120	0.388	20	
Lead	0.510	0.010	mg/L	0.500		102		80-120	0.385	20	
Zinc	1.01	0.010	mg/L	1.00		101		80-120	0.117	20	
Matrix Spike (B359096-MS1)		**Source: 23K2538-02**		Prepared: 11/28/23 Analyzed: 11/29/23							
Hardness	82	1.4	mg/L	26.4	56	97.2		75-125			
Matrix Spike (B359096-MS2)		**Source: 23K2538-08**		Prepared: 11/28/23 Analyzed: 11/29/23							
Aluminum	3.78	0.050	mg/L	0.500	2.62	**232**	*	75-125			MS-19
Antimony	0.495	0.050	mg/L	0.500	ND	98.9		75-125			
Arsenic	0.491	0.010	mg/L	0.500	ND	98.2		75-125			
Barium	0.579	0.050	mg/L	0.500	0.0552	105		75-125			
Beryllium	0.530	0.0040	mg/L	0.500	ND	106		75-125			
Cadmium	0.510	0.0040	mg/L	0.500	ND	102		75-125			
Calcium	15.3	0.50	mg/L	4.00	11.6	94.1		75-125			
Chromium	0.515	0.010	mg/L	0.500	ND	103		75-125			
Cobalt	0.515	0.010	mg/L	0.500	0.00481	102		75-125			
Iron	10.5	0.050	mg/L	4.00	6.65	95.7		75-125			
Magnesium	6.58	0.050	mg/L	4.00	2.48	102		75-125			
Manganese	1.66	0.010	mg/L	0.500	1.18	97.4		75-125			
Nickel	0.522	0.010	mg/L	0.500	0.00446	104		75-125			
Potassium	4.94	2.0	mg/L	4.00	0.861	102		75-125			
Selenium	0.518	0.050	mg/L	0.500	ND	104		75-125			
Silver	0.531	0.010	mg/L	0.500	ND	106		75-125			
Sodium	7.82	2.0	mg/L	4.00	3.72	103		75-125			
Thallium	0.486	0.050	mg/L	0.500	ND	97.3		75-125			
Vanadium	0.529	0.010	mg/L	0.500	0.00904	104		75-125			
Matrix Spike (B359096-MS4)		**Source: 23K2538-08**		Prepared: 11/28/23 Analyzed: 11/30/23							
Copper	0.974	0.010	mg/L	1.00	0.00859	96.6		75-125			
Lead	0.518	0.010	mg/L	0.500	0.0357	96.5		75-125			
Zinc	1.08	0.010	mg/L	1.00	0.112	96.7		75-125			
Matrix Spike Dup (B359096-MSD1)		**Source: 23K2538-02**		Prepared: 11/28/23 Analyzed: 11/29/23							
Hardness	84	1.4	mg/L	26.4	56	108		75-125	3.45	20	
Matrix Spike Dup (B359096-MSD2)		**Source: 23K2538-08**		Prepared: 11/28/23 Analyzed: 11/29/23							
Aluminum	3.91	0.050	mg/L	0.500	2.62	**258**	*	75-125	3.37	20	MS-19
Antimony	0.494	0.050	mg/L	0.500	ND	98.7		75-125	0.195	20	
Arsenic	0.489	0.010	mg/L	0.500	ND	97.7		75-125	0.476	20	
Barium	0.574	0.050	mg/L	0.500	0.0552	104		75-125	0.911	20	
Beryllium	0.536	0.0040	mg/L	0.500	ND	107		75-125	1.09	20	
Cadmium	0.507	0.0040	mg/L	0.500	ND	101		75-125	0.574	20	
Calcium	16.0	0.50	mg/L	4.00	11.6	111		75-125	4.25	20	
Chromium	0.510	0.010	mg/L	0.500	ND	102		75-125	0.915	20	
Cobalt	0.509	0.010	mg/L	0.500	0.00481	101		75-125	1.11	20	
Iron	10.8	0.050	mg/L	4.00	6.65	105		75-125	3.42	20	
Magnesium	6.78	0.050	mg/L	4.00	2.48	108		75-125	3.09	20	
Manganese	1.73	0.010	mg/L	0.500	1.18	110		75-125	3.63	20	
Nickel	0.518	0.010	mg/L	0.500	0.00446	103		75-125	0.836	20	
Potassium	5.08	2.0	mg/L	4.00	0.861	105		75-125	2.64	20	
Selenium	0.512	0.050	mg/L	0.500	ND	102		75-125	1.17	20	
Silver	0.526	0.010	mg/L	0.500	ND	105		75-125	1.02	20	
Sodium	7.86	2.0	mg/L	4.00	3.72	104		75-125	0.459	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359096 - SW-846 3005A										
Matrix Spike Dup (B359096-MSD2)	**Source: 23K2538-08**			Prepared: 11/28/23 Analyzed: 11/29/23						
Thallium	0.504	0.050	mg/L	0.500	ND	101	75-125	3.49	20	
Vanadium	0.524	0.010	mg/L	0.500	0.00904	103	75-125	0.923	20	
Matrix Spike Dup (B359096-MSD4)	**Source: 23K2538-08**			Prepared: 11/28/23 Analyzed: 11/30/23						
Copper	0.956	0.010	mg/L	1.00	0.00859	94.8	75-125	1.84	20	
Lead	0.518	0.010	mg/L	0.500	0.0357	96.5	75-125	0.0524	20	
Zinc	1.07	0.010	mg/L	1.00	0.112	95.9	75-125	0.711	20	
Post Spike (B359096-PS2)	**Source: 23K2538-08**			Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	4.69		mg/L	2.00	2.56	106	75-125			
Antimony	2.02		mg/L	2.00	0.00135	101	75-125			
Arsenic	1.95		mg/L	2.00	0.00552	97.2	75-125			
Barium	2.14		mg/L	2.00	0.0541	104	75-125			
Beryllium	2.15		mg/L	2.00	0.000141	108	75-125			
Cadmium	2.05		mg/L	2.00	0.00114	102	75-125			
Calcium	27.5		mg/L	16.0	11.3	101	75-125			
Chromium	2.04		mg/L	2.00	0.00473	102	75-125			
Cobalt	2.03		mg/L	2.00	0.00471	101	75-125			
Iron	22.3		mg/L	16.0	6.52	98.7	75-125			
Magnesium	19.0		mg/L	16.0	2.43	104	75-125			
Manganese	3.18		mg/L	2.00	1.15	101	75-125			
Nickel	2.05		mg/L	2.00	0.00438	103	75-125			
Potassium	17.4		mg/L	16.0	0.843	104	75-125			
Selenium	2.05		mg/L	2.00	-0.000176	103	75-125			
Silver	1.98		mg/L	2.00	0.00148	98.9	75-125			
Sodium	19.9		mg/L	16.0	3.64	102	75-125			
Thallium	2.03		mg/L	2.00	-0.00643	101	75-125			
Vanadium	2.10		mg/L	2.00	0.00886	104	75-125			
Post Spike (B359096-PS4)	**Source: 23K2538-08**			Prepared: 11/28/23 Analyzed: 11/30/23						
Copper	3.90		mg/L	4.00	0.00842	97.2	75-125			
Lead	1.97		mg/L	2.00	0.0350	96.9	75-125			
Zinc	4.03		mg/L	4.00	0.110	98.0	75-125			
Dilution Check (B359096-SRL2)	**Source: 23K2538-08**			Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	2.65	0.25	mg/L		2.62			1.20	20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.0553	0.25	mg/L		0.0552			0.113	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	11.4	2.5	mg/L		11.6			1.14	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Iron	6.48	0.25	mg/L		6.65			2.60	20	
Magnesium	2.47	0.25	mg/L		2.48			0.431	20	
Manganese	1.16	0.050	mg/L		1.18			1.17	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	ND	10	mg/L		ND				20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	0.0142	0.050	mg/L		ND				20	J
Sodium	3.72	10	mg/L		ND			0.00905	20	J
Thallium	ND	0.25	mg/L		ND				20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359096 - SW-846 3005A										
Dilution Check (B359096-SRL2)		**Source: 23K2538-08**		Prepared: 11/28/23 Analyzed: 11/29/23						
Vanadium	ND	0.050	mg/L		ND				20	
Dilution Check (B359096-SRL4)		**Source: 23K2538-08**		Prepared: 11/28/23 Analyzed: 11/30/23						
Copper	ND	0.050	mg/L		ND				20	
Lead	ND	0.050	mg/L		0.0357				20	
Zinc	0.111	0.050	mg/L		0.112			1.16	20	
Batch B359098 - SW-846 3005A										
Blank (B359098-BLK1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B359098-BLK2)				Prepared: 11/28/23 Analyzed: 12/02/23						
Arsenic	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
LCS (B359098-BS1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	0.458	0.050	mg/L	0.500		91.7	45.3-154.7			
Antimony	0.471	0.050	mg/L	0.500		94.3	80-120			
Barium	0.478	0.050	mg/L	0.500		95.6	80-120			
Beryllium	0.497	0.0040	mg/L	0.500		99.5	80-120			
Cadmium	0.464	0.0040	mg/L	0.500		92.8	80-120			
Calcium	3.87	0.50	mg/L	4.00		96.7	80-120			
Chromium	0.472	0.010	mg/L	0.500		94.4	80-120			
Cobalt	0.471	0.010	mg/L	0.500		94.2	80-120			
Copper	0.921	0.010	mg/L	1.00		92.1	80-120			
Lead	0.491	0.010	mg/L	0.500		98.1	80-120			
Magnesium	4.03	0.050	mg/L	4.00		101	80-120			
Nickel	0.477	0.010	mg/L	0.500		95.3	80-120			
Potassium	3.91	2.0	mg/L	4.00		97.8	80-120			
Selenium	0.469	0.050	mg/L	0.500		93.8	80-120			
Silver	0.499	0.010	mg/L	0.500		99.7	80-120			
Thallium	0.489	0.050	mg/L	0.500		97.8	80-120			
Vanadium	0.468	0.010	mg/L	0.500		93.6	80-120			
Zinc	0.944	0.010	mg/L	1.00		94.4	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359098 - SW-846 3005A										
LCS (B359098-BS2)				Prepared: 11/28/23 Analyzed: 12/02/23						
Arsenic	0.466	0.010	mg/L	0.500		93.1	80-120			
Iron	4.08	0.050	mg/L	4.00		102	80-120			
Manganese	0.508	0.010	mg/L	0.500		102	80-120			
Sodium	3.61	2.0	mg/L	4.00		90.4	80-120			
LCS Dup (B359098-BSD1)				Prepared: 11/28/23 Analyzed: 11/29/23						
Aluminum	0.476	0.050	mg/L	0.500		95.3	45.3-154.7	3.85	30	
Antimony	0.478	0.050	mg/L	0.500		95.5	80-120	1.34	20	
Barium	0.486	0.050	mg/L	0.500		97.2	80-120	1.65	20	
Beryllium	0.511	0.0040	mg/L	0.500		102	80-120	2.70	20	
Cadmium	0.470	0.0040	mg/L	0.500		94.1	80-120	1.37	20	
Calcium	3.98	0.50	mg/L	4.00		99.5	80-120	2.89	20	
Chromium	0.480	0.010	mg/L	0.500		96.0	80-120	1.65	20	
Cobalt	0.480	0.010	mg/L	0.500		96.1	80-120	1.94	20	
Copper	0.938	0.010	mg/L	1.00		93.8	80-120	1.79	20	
Lead	0.496	0.010	mg/L	0.500		99.2	80-120	1.13	20	
Magnesium	4.14	0.050	mg/L	4.00		104	80-120	2.91	20	
Nickel	0.485	0.010	mg/L	0.500		97.0	80-120	1.81	30	
Potassium	4.05	2.0	mg/L	4.00		101	80-120	3.46	20	
Selenium	0.477	0.050	mg/L	0.500		95.4	80-120	1.65	20	
Silver	0.503	0.010	mg/L	0.500		101	80-120	0.869	20	
Thallium	0.502	0.050	mg/L	0.500		100	80-120	2.74	20	
Vanadium	0.475	0.010	mg/L	0.500		95.1	80-120	1.63	20	
Zinc	0.958	0.010	mg/L	1.00		95.8	80-120	1.52	20	
LCS Dup (B359098-BSD2)				Prepared: 11/28/23 Analyzed: 12/02/23						
Arsenic	0.463	0.010	mg/L	0.500		92.6	80-120	0.515	20	
Iron	4.13	0.050	mg/L	4.00		103	80-120	1.09	20	
Manganese	0.513	0.010	mg/L	0.500		103	80-120	1.03	20	
Sodium	3.64	2.0	mg/L	4.00		90.9	80-120	0.605	20	
Dilution Check (B359098-SRL1)		**Source: 23K2925-04**		Prepared: 11/28/23 Analyzed: 12/02/23						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.108	0.25	mg/L		0.111			2.86	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	99.1	2.5	mg/L		95.7			3.48	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	1.59	0.25	mg/L		1.57			1.02	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	26.2	0.25	mg/L		25.7			2.27	20	
Manganese	0.832	0.050	mg/L		0.827			0.631	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	22.0	10	mg/L		23.7			7.48	20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	314	10	mg/L		309			1.64	20	
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359098 - SW-846 3005A										
Dilution Check (B359098-SRL1)		**Source: 23K2925-04**		Prepared: 11/28/23 Analyzed: 12/02/23						
Zinc	ND	0.050	mg/L		ND				20	
Batch B359348 - SW-846 7470A Prep										
Blank (B359348-BLK1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	ND	0.00020	mg/L							
LCS (B359348-BS1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0192	0.0010	mg/L	0.0200		96.1	80-120			
LCS Dup (B359348-BSD1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0195	0.0010	mg/L	0.0200		97.4	80-120	1.26	20	
Matrix Spike (B359348-MS1)		**Source: 23K2538-08**		Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0192	0.0010	mg/L	0.0200	ND	96.2	75-125			
Matrix Spike Dup (B359348-MSD1)		**Source: 23K2538-08**		Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0198	0.0010	mg/L	0.0200	ND	98.9	75-125	2.73	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358635 - SW-846 3005A Dissolved										
Blank (B358635-BLK1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Aluminum	0.020	0.050	mg/L							J
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B358635-BLK2)				Prepared: 11/20/23 Analyzed: 11/30/23						
Arsenic	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
LCS (B358635-BS1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Aluminum	0.580	0.050	mg/L	0.500		116	80-120			
Antimony	0.522	0.050	mg/L	0.500		104	80-120			
Barium	0.536	0.050	mg/L	0.500		107	80-120			
Beryllium	0.542	0.0040	mg/L	0.500		108	80-120			
Cadmium	0.521	0.0040	mg/L	0.500		104	80-120			
Calcium	4.10	0.50	mg/L	4.00		103	80-120			
Chromium	0.529	0.010	mg/L	0.500		106	80-120			
Cobalt	0.530	0.010	mg/L	0.500		106	80-120			
Copper	1.02	0.010	mg/L	1.00		102	80-120			
Iron	4.00	0.050	mg/L	4.00		99.9	80-120			
Lead	0.536	0.010	mg/L	0.500		107	80-120			
Magnesium	4.06	0.050	mg/L	4.00		101	80-120			
Manganese	0.506	0.010	mg/L	0.500		101	80-120			
Nickel	0.536	0.010	mg/L	0.500		107	80-120			
Potassium	4.04	2.0	mg/L	4.00		101	80-120			
Selenium	0.518	0.050	mg/L	0.500		104	80-120			
Silver	0.539	0.010	mg/L	0.500		108	80-120			
Thallium	0.561	0.050	mg/L	0.500		112	80-120			
Vanadium	0.522	0.010	mg/L	0.500		104	80-120			
Zinc	1.07	0.010	mg/L	1.00		107	80-120			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358635 - SW-846 3005A Dissolved										
LCS (B358635-BS2)				Prepared: 11/20/23 Analyzed: 11/30/23						
Arsenic	0.505	0.010	mg/L	0.500		101	80-120			
Sodium	4.19	2.0	mg/L	4.00		105	80-120			
LCS Dup (B358635-BSD1)				Prepared: 11/20/23 Analyzed: 11/21/23						
Aluminum	0.499	0.050	mg/L	0.500		99.7	80-120	15.1	20	
Antimony	0.513	0.050	mg/L	0.500		103	80-120	1.82	20	
Barium	0.526	0.050	mg/L	0.500		105	80-120	1.80	20	
Beryllium	0.539	0.0040	mg/L	0.500		108	80-120	0.488	20	
Cadmium	0.512	0.0040	mg/L	0.500		102	80-120	1.74	20	
Calcium	4.03	0.50	mg/L	4.00		101	80-120	1.88	20	
Chromium	0.520	0.010	mg/L	0.500		104	80-120	1.82	20	
Cobalt	0.518	0.010	mg/L	0.500		104	80-120	2.30	20	
Copper	1.01	0.010	mg/L	1.00		101	80-120	1.32	20	
Iron	3.93	0.050	mg/L	4.00		98.4	80-120	1.57	20	
Lead	0.530	0.010	mg/L	0.500		106	80-120	1.04	20	
Magnesium	3.99	0.050	mg/L	4.00		99.7	80-120	1.73	20	
Manganese	0.497	0.010	mg/L	0.500		99.4	80-120	1.85	20	
Nickel	0.525	0.010	mg/L	0.500		105	80-120	2.17	20	
Potassium	3.91	2.0	mg/L	4.00		97.9	80-120	3.06	20	
Selenium	0.512	0.050	mg/L	0.500		102	80-120	1.20	20	
Silver	0.533	0.010	mg/L	0.500		107	80-120	1.11	20	
Thallium	0.550	0.050	mg/L	0.500		110	80-120	1.97	20	
Vanadium	0.515	0.010	mg/L	0.500		103	80-120	1.24	20	
Zinc	1.04	0.010	mg/L	1.00		104	80-120	2.43	20	
LCS Dup (B358635-BSD2)				Prepared: 11/20/23 Analyzed: 11/30/23						
Arsenic	0.496	0.010	mg/L	0.500		99.3	80-120	1.78	20	
Sodium	4.09	2.0	mg/L	4.00		102	80-120	2.48	20	
Dilution Check (B358635-SRL1)		**Source: 23K2135-06**		Prepared: 11/20/23 Analyzed: 11/21/23						
Iron	17.8	0.25	mg/L		18.9			6.28	20	
Batch B358776 - SW-846 3005A Dissolved										
Blank (B358776-BLK1)				Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.039	0.050	mg/L							J
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	0.0086	0.010	mg/L							J

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
Blank (B358776-BLK2)				Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Lead	0.0094	0.010	mg/L							B-05, J
Thallium	ND	0.050	mg/L							
LCS (B358776-BS1)				Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.548	0.050	mg/L	0.500		110	80-120			
Arsenic	0.478	0.010	mg/L	0.500		95.6	80-120			
Barium	0.519	0.050	mg/L	0.500		104	80-120			
Beryllium	0.560	0.0040	mg/L	0.500		112	80-120			
Cadmium	0.512	0.0040	mg/L	0.500		102	80-120			
Calcium	4.31	0.50	mg/L	4.00		108	80-120			
Chromium	0.516	0.010	mg/L	0.500		103	80-120			
Cobalt	0.513	0.010	mg/L	0.500		103	80-120			
Iron	4.26	0.050	mg/L	4.00		107	80-120			
Magnesium	4.43	0.050	mg/L	4.00		111	80-120			
Manganese	0.535	0.010	mg/L	0.500		107	80-120			
Nickel	0.518	0.010	mg/L	0.500		104	80-120			
Potassium	4.36	2.0	mg/L	4.00		109	80-120			
Selenium	0.509	0.050	mg/L	0.500		102	80-120			
Silver	0.539	0.010	mg/L	0.500		108	80-120			
Sodium	4.32	2.0	mg/L	4.00		108	80-120			
Vanadium	0.507	0.010	mg/L	0.500		101	80-120			
Zinc	1.04	0.010	mg/L	1.00		104	80-120			
LCS (B358776-BS2)				Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	0.473	0.050	mg/L	0.500		94.6	80-120			
Copper	0.926	0.010	mg/L	1.00		92.6	80-120			
Lead	0.495	0.010	mg/L	0.500		99.0	80-120			
Thallium	0.507	0.050	mg/L	0.500		101	80-120			
LCS Dup (B358776-BSD1)				Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.536	0.050	mg/L	0.500		107	80-120	2.21	20	
Arsenic	0.483	0.010	mg/L	0.500		96.5	80-120	0.939	20	
Barium	0.522	0.050	mg/L	0.500		104	80-120	0.523	20	
Beryllium	0.542	0.0040	mg/L	0.500		108	80-120	3.16	20	
Cadmium	0.515	0.0040	mg/L	0.500		103	80-120	0.551	20	
Calcium	4.23	0.50	mg/L	4.00		106	80-120	2.00	20	
Chromium	0.519	0.010	mg/L	0.500		104	80-120	0.555	20	
Cobalt	0.517	0.010	mg/L	0.500		103	80-120	0.708	20	
Iron	4.20	0.050	mg/L	4.00		105	80-120	1.61	20	
Magnesium	4.33	0.050	mg/L	4.00		108	80-120	2.22	20	
Manganese	0.527	0.010	mg/L	0.500		105	80-120	1.49	20	
Nickel	0.522	0.010	mg/L	0.500		104	80-120	0.662	20	
Potassium	4.24	2.0	mg/L	4.00		106	80-120	2.81	20	
Selenium	0.507	0.050	mg/L	0.500		101	80-120	0.281	20	
Silver	0.543	0.010	mg/L	0.500		109	80-120	0.702	20	
Sodium	4.21	2.0	mg/L	4.00		105	80-120	2.43	20	
Vanadium	0.509	0.010	mg/L	0.500		102	80-120	0.467	20	
Zinc	1.05	0.010	mg/L	1.00		105	80-120	0.969	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
LCS Dup (B358776-BSD2)				Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	0.499	0.050	mg/L	0.500		99.7	80-120	5.27	20	
Copper	0.982	0.010	mg/L	1.00		98.2	80-120	5.87	20	
Lead	0.520	0.010	mg/L	0.500		104	80-120	5.03	20	
Thallium	0.532	0.050	mg/L	0.500		106	80-120	4.74	20	
Matrix Spike (B358776-MS1)		**Source: 23K2538-02**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.565	0.050	mg/L	0.500	0.0224	109	75-125			
Arsenic	0.490	0.010	mg/L	0.500	ND	98.1	75-125			
Barium	0.545	0.050	mg/L	0.500	0.0326	102	75-125			
Beryllium	0.533	0.0040	mg/L	0.500	ND	107	75-125			
Cadmium	0.516	0.0040	mg/L	0.500	0.00516	102	75-125			
Calcium	20.5	0.50	mg/L	4.00	16.6	97.8	75-125			
Chromium	0.511	0.010	mg/L	0.500	ND	102	75-125			
Cobalt	0.508	0.010	mg/L	0.500	0.00208	101	75-125			
Iron	4.58	0.050	mg/L	4.00	0.377	105	75-125			
Magnesium	8.26	0.050	mg/L	4.00	3.98	107	75-125			
Manganese	0.937	0.010	mg/L	0.500	0.421	103	75-125			
Nickel	0.508	0.010	mg/L	0.500	ND	102	75-125			
Potassium	6.43	2.0	mg/L	4.00	2.15	107	75-125			
Selenium	0.502	0.050	mg/L	0.500	ND	100	75-125			
Silver	0.492	0.010	mg/L	0.500	ND	98.4	75-125			
Sodium	32.8	2.0	mg/L	4.00	29.2	90.9	75-125			
Vanadium	0.505	0.010	mg/L	0.500	ND	101	75-125			
Matrix Spike (B358776-MS2)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.628	0.050	mg/L	0.500	0.0976	106	75-125			
Arsenic	0.497	0.010	mg/L	0.500	ND	99.4	75-125			
Barium	0.544	0.050	mg/L	0.500	0.0276	103	75-125			
Beryllium	0.548	0.0040	mg/L	0.500	ND	110	75-125			
Cadmium	0.509	0.0040	mg/L	0.500	ND	102	75-125			
Calcium	15.6	0.50	mg/L	4.00	11.2	110	75-125			
Chromium	0.516	0.010	mg/L	0.500	ND	103	75-125			
Cobalt	0.514	0.010	mg/L	0.500	0.00253	102	75-125			
Iron	5.09	0.050	mg/L	4.00	0.865	106	75-125			
Magnesium	6.69	0.050	mg/L	4.00	2.40	107	75-125			
Manganese	1.37	0.010	mg/L	0.500	0.825	109	75-125			
Nickel	0.518	0.010	mg/L	0.500	0.00317	103	75-125			
Potassium	4.96	2.0	mg/L	4.00	0.765	105	75-125			
Selenium	0.516	0.050	mg/L	0.500	ND	103	75-125			
Silver	0.518	0.010	mg/L	0.500	ND	104	75-125			
Sodium	7.89	2.0	mg/L	4.00	3.60	107	75-125			
Vanadium	0.503	0.010	mg/L	0.500	ND	101	75-125			
Zinc	1.07	0.010	mg/L	1.00	0.0426	103	75-125			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
Matrix Spike (B358776-MS3)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	0.504	0.050	mg/L	0.500	ND	101	75-125			
Copper	0.971	0.010	mg/L	1.00	ND	97.1	75-125			
Lead	0.506	0.010	mg/L	0.500	ND	101	75-125			
Thallium	0.532	0.050	mg/L	0.500	ND	106	75-125			
Matrix Spike Dup (B358776-MSD1)		**Source: 23K2538-02**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.524	0.050	mg/L	0.500	0.0224	100	75-125	7.59	20	
Arsenic	0.496	0.010	mg/L	0.500	ND	99.2	75-125	1.13	20	
Barium	0.554	0.050	mg/L	0.500	0.0326	104	75-125	1.67	20	
Beryllium	0.535	0.0040	mg/L	0.500	ND	107	75-125	0.282	20	
Cadmium	0.525	0.0040	mg/L	0.500	0.00516	104	75-125	1.82	20	
Calcium	19.9	0.50	mg/L	4.00	16.6	83.4	75-125	2.84	20	
Chromium	0.520	0.010	mg/L	0.500	ND	104	75-125	1.81	20	
Cobalt	0.517	0.010	mg/L	0.500	0.00208	103	75-125	1.79	20	
Iron	4.45	0.050	mg/L	4.00	0.377	102	75-125	2.82	20	
Magnesium	8.08	0.050	mg/L	4.00	3.98	103	75-125	2.20	20	
Manganese	0.910	0.010	mg/L	0.500	0.421	97.9	75-125	2.91	20	
Nickel	0.515	0.010	mg/L	0.500	ND	103	75-125	1.43	20	
Potassium	6.29	2.0	mg/L	4.00	2.15	104	75-125	2.07	20	
Selenium	0.511	0.050	mg/L	0.500	ND	102	75-125	1.63	20	
Silver	0.525	0.010	mg/L	0.500	ND	105	75-125	6.51	20	
Sodium	32.5	2.0	mg/L	4.00	29.2	83.9	75-125	0.860	20	
Vanadium	0.513	0.010	mg/L	0.500	ND	103	75-125	1.54	20	
Matrix Spike Dup (B358776-MSD2)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	0.635	0.050	mg/L	0.500	0.0976	107	75-125	1.10	20	
Arsenic	0.490	0.010	mg/L	0.500	ND	98.0	75-125	1.47	20	
Barium	0.544	0.050	mg/L	0.500	0.0276	103	75-125	0.0593	20	
Beryllium	0.552	0.0040	mg/L	0.500	ND	110	75-125	0.683	20	
Cadmium	0.510	0.0040	mg/L	0.500	ND	102	75-125	0.252	20	
Calcium	15.8	0.50	mg/L	4.00	11.2	115	75-125	1.37	20	
Chromium	0.516	0.010	mg/L	0.500	ND	103	75-125	0.00550	20	
Cobalt	0.514	0.010	mg/L	0.500	0.00253	102	75-125	0.00741	20	
Iron	5.13	0.050	mg/L	4.00	0.865	107	75-125	0.756	20	
Magnesium	6.77	0.050	mg/L	4.00	2.40	109	75-125	1.18	20	
Manganese	1.38	0.010	mg/L	0.500	0.825	111	75-125	0.471	20	
Nickel	0.511	0.010	mg/L	0.500	0.00317	102	75-125	1.33	20	
Potassium	5.05	2.0	mg/L	4.00	0.765	107	75-125	1.91	20	
Selenium	0.507	0.050	mg/L	0.500	ND	101	75-125	1.80	20	
Silver	0.517	0.010	mg/L	0.500	ND	103	75-125	0.192	20	
Sodium	7.79	2.0	mg/L	4.00	3.60	105	75-125	1.27	20	
Vanadium	0.503	0.010	mg/L	0.500	ND	101	75-125	0.104	20	
Zinc	1.07	0.010	mg/L	1.00	0.0426	103	75-125	0.269	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
Matrix Spike Dup (B358776-MSD3)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	0.499	0.050	mg/L	0.500	ND	99.8	75-125	0.937	20	
Copper	0.964	0.010	mg/L	1.00	ND	96.4	75-125	0.778	20	
Lead	0.504	0.010	mg/L	0.500	ND	101	75-125	0.488	20	
Thallium	0.529	0.050	mg/L	0.500	ND	106	75-125	0.469	20	
Post Spike (B358776-PS1)		**Source: 23K2538-02**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	2.17		mg/L	2.00	0.0219	108	75-125			
Arsenic	1.99		mg/L	2.00	-0.000327	99.6	75-125			
Barium	2.11		mg/L	2.00	0.0319	104	75-125			
Beryllium	2.22		mg/L	2.00	0.000422	111	75-125			
Cadmium	2.08		mg/L	2.00	0.00505	104	75-125			
Calcium	32.9		mg/L	16.0	16.3	104	75-125			
Chromium	2.07		mg/L	2.00	0.00125	103	75-125			
Cobalt	2.03		mg/L	2.00	0.00204	102	75-125			
Iron	17.3		mg/L	16.0	0.370	106	75-125			
Magnesium	21.1		mg/L	16.0	3.90	107	75-125			
Manganese	2.51		mg/L	2.00	0.413	105	75-125			
Nickel	2.03		mg/L	2.00	0.00227	101	75-125			
Potassium	19.2		mg/L	16.0	2.11	107	75-125			
Selenium	2.06		mg/L	2.00	-0.00654	103	75-125			
Silver	2.11		mg/L	2.00	-0.00180	105	75-125			
Sodium	46.1		mg/L	16.0	28.6	109	75-125			
Vanadium	2.04		mg/L	2.00	0.00167	102	75-125			
Post Spike (B358776-PS2)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	2.22		mg/L	2.00	0.0956	106	75-125			
Arsenic	1.98		mg/L	2.00	-0.00165	98.8	75-125			
Barium	2.09		mg/L	2.00	0.0271	103	75-125			
Beryllium	2.21		mg/L	2.00	0.000421	111	75-125			
Cadmium	2.05		mg/L	2.00	0.000218	102	75-125			
Calcium	27.5		mg/L	16.0	11.0	103	75-125			
Chromium	2.05		mg/L	2.00	0.00176	103	75-125			
Cobalt	2.03		mg/L	2.00	0.00248	101	75-125			
Iron	17.5		mg/L	16.0	0.848	104	75-125			
Magnesium	19.3		mg/L	16.0	2.35	106	75-125			
Manganese	2.89		mg/L	2.00	0.809	104	75-125			
Nickel	2.02		mg/L	2.00	0.00311	101	75-125			
Potassium	17.5		mg/L	16.0	0.750	105	75-125			
Selenium	2.05		mg/L	2.00	-0.00232	103	75-125			
Silver	2.07		mg/L	2.00	-0.00179	103	75-125			
Sodium	20.4		mg/L	16.0	3.53	105	75-125			
Vanadium	2.01		mg/L	2.00	0.00306	101	75-125			
Zinc	4.15		mg/L	4.00	0.0418	103	75-125			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
Post Spike (B358776-PS3)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	1.83		mg/L	2.00	0.00146	91.5	75-125			
Copper	3.54		mg/L	4.00	0.00121	88.4	75-125			
Lead	1.80		mg/L	2.00	0.00102	90.1	75-125			
Thallium	1.99		mg/L	2.00	-0.00315	99.3	75-125			
Dilution Check (B358776-SRL1)		**Source: 23K2538-02**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.0315	0.25	mg/L		0.0326			3.48	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	16.0	2.5	mg/L		16.6			3.66	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Iron	0.364	0.25	mg/L		0.377			3.64	20	
Magnesium	3.86	0.25	mg/L		3.98			3.08	20	
Manganese	0.416	0.050	mg/L		0.421			1.17	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	2.18	10	mg/L		2.15			1.48	20	J
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	29.7	10	mg/L		29.2			1.81	20	
Vanadium	ND	0.050	mg/L		ND				20	
Dilution Check (B358776-SRL2)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/22/23						
Aluminum	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	10.9	2.5	mg/L		11.2			2.67	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Iron	0.822	0.25	mg/L		0.865			5.15	20	
Magnesium	2.33	0.25	mg/L		2.40			3.09	20	
Manganese	0.796	0.050	mg/L		0.825			3.59	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	ND	10	mg/L		ND				20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	ND	10	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358776 - SW-846 3005A Dissolved										
Dilution Check (B358776-SRL3)		**Source: 23K2538-08**		Prepared: 11/21/23 Analyzed: 11/30/23						
Antimony	ND	0.050	mg/L		ND				20	
Copper	ND	0.010	mg/L		ND				20	
Lead	ND	0.010	mg/L		ND				20	
Thallium	ND	0.050	mg/L		ND				20	
Batch B359406 - SW-846 7470A Dissolved										
Blank (B359406-BLK1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	ND	0.00020	mg/L							
LCS (B359406-BS1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0194	0.0010	mg/L	0.0200		97.1	80-120			
LCS Dup (B359406-BSD1)				Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0197	0.0010	mg/L	0.0200		98.4	80-120	1.37	20	
Matrix Spike (B359406-MS1)		**Source: 23K2538-08**		Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0200	0.0010	mg/L	0.0200	ND	99.8	75-125			
Matrix Spike Dup (B359406-MSD1)		**Source: 23K2538-08**		Prepared: 11/30/23 Analyzed: 12/01/23						
Mercury	0.0194	0.0010	mg/L	0.0200	ND	96.9	75-125	2.94	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B358571 - % Solids										
Duplicate (B358571-DUP1)	**Source: 23K2538-05**		Prepared & Analyzed: 11/20/23							
% Solids	77.3		% Wt		75.5			2.41	10	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Aluminum	CT,NY,NH,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,NC,VA
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	MA,NY,CT,NH,NC,ME,VA
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,NC,VA
Calcium	CT,NH,NY,NC,ME,VA
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,NC,ME,VA
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,RI,NC,VA
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
Mercury	CT,NH,NY,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical®

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https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

Table of Contents

23152538

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 2

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (716) 364-7282
Project Name: Dzus Fastener
Project Location: West Islip, NY
Project Number: 16025151/0004
Project Manager: Hilary Williams
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Lincoln Backman-Lowe

Regulatory Requirements/Report Limits
7-Day ☐ 10-Day ☑
Due Date:

Data Package Options (billable)
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
1	152033-MW-18	11/13/23	11:47		X	GW	
2	152033-SW-12	11/13/23	12:40		X	O	
3	152033-SW-FD-01	11/13/23	—		X	O	
4	152033-SW-01	11/13/23	13:40		X	O	
5	152033-SD-12	11/13/23	13:00		X	SOL	
6	152033-SD-FD-01	11/13/23	—		X	SOL	
7	152033-SD-01	11/13/23	13:45		X	SOL	
8	152033-MW-17	11/13/23	15:32		X	GW	
9	152033-MW-9S	11/13/23	16:58		X	GW	
10	152033-MW-9	11/13/23	17:21		X	GW	

ANALYSIS REQUESTED

# of Containers	[2] Preservation Code	[3] Container Code	TAL Metals 6010 (incl. Hg) Diss.	TAL Metals 6010 (incl. Hg) Total	Ca 6010 + Cr 6010 Diss.	Hardness, Total by SM 2340C	Ca 6010 + Cr 6010 Total
1	N	P	X	X			
1	N	P			X	X	
1	N	P			X	X	
1	N	P			X	X	
1	I	A					X
							X
							X
			X	X			
			X	X			
			X	X			

Filtration of Aqueous Samples
☑ Field Filtered
☐ Lab to Filter

Filtration of Soil/Solid Samples
☐ Field Filtered
☐ Lab to Filter

[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)

Comments: *O=Surface water
*extra volume included for MS/MSD for samples: 152033-SW-12 and 152033-SD-12 and 152033-MW-17
Level 4 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

	Date/Time:
Relinquished by: (signature)	11/16/23 12:40
Received by: (signature)	11/16 1600
Relinquished by: (signature)	11/16 1700
Received by: (signature) 5.8°C	11-17-23 1040
Relinquished by: (signature)	
Received by: (signature)	

Regulatory Requirements/Report Limits
☑ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Data Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Certification
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

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Doc # 380 Rev 1_03242017

Page 2 of 5

23K2538

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (716) 364-7282
Project Name: Dzus Fastener
Project Location: West Islip, NY
Project Number: 1602515/0004
Project Manager: Hilary Williams
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Lincoln Backman-Lowe

Report Turnaround Requested
7-Day ☐ 10-Day ☑
Due Date:

Data Turnaround Requested
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals 6010 (Ind. Hg) Diss.	TAL Metals 6010 (Ind. Hg) Total	ANALYSIS REQUESTED	# of Containers
								I	I		[2] Preservation Code
								N	N		[3] Container Code
								P	P		
11	152033-MW-13B	11/14/23	08:50		X	GW	U	X	X		
12	152033-MW-13A	11/14/23	09:18		X	GW	U	X	X		
13	152033-MW-FD-01	11/14/23	—		X	GW	U	X	X		
14	152033-MW-23A	11/14/23	10:06		X	GW	U	X	X		
15	152033-MW-23B	11/14/23	10:49		X	GW	U	X	X		
16	152033-MW-22A	11/14/23	11:25		X	GW	U	X	X		
17	152033-MW-22B	11/14/23	11:50		X	GW	U	X	X		
18	152033-MW-3	11/14/23	13:08		X	GW	U	X	X		
19	152033-MW-15A	11/14/23	13:15		X	GW	U	X	X		
20	152033-MW-15B	11/14/23	14:06		X	GW	U	X	X		

Filtered Metals Samples
☑ Field Filtered
☐ Lab to Filter

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

[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)

Comments:
* Level 4 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

Relinquished by: (signature)	Date/Time:
[signature]	11/16/23 12:40
Received by: (signature)	Date/Time:
[signature]	11/16 1600
Relinquished by: (signature)	Date/Time:
[signature]	11/16 1700
Received by: (signature)	Date/Time:
[signature] 5.8°C	11-17-23 1010
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Regulatory Program / Standard Requirements
☑ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Certification
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

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23K2538

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (716) 364-7282
Project Name: DZUS Fastener
Project Location: West Islip, NY
Project Number: 16025150004
Project Manager: Hilary Williams
Pace Analytical Quote Name/Number:
Invoice Recipient:
Sampled By: Lincoln Backman-Lowe

Report Type Required:
7-Day ☐ 10-Day ☑
Due Date:

Preliminary Data Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Deliverables:
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TAL Metals 6010 (Incl. Hg) Dis.	TAL Metals 6010 (Incl. Hg) Total	# of Containers	[2] Preservation Code	[3] Container Code	Field Filtered
								N	N	1	1		
								P	P				
21	152033-MW-1	11/14/23	15:01		X	GW	U	X	X				
22	152033-MW-2	11/14/23	1531		X	GW	U	X	X				

ANALYSIS REQUESTED

Additional Metals Samples: ☑ Field Filtered ☐ Lab to Filter
Additional Metals Samples: ☐ Field Filtered ☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
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SOL = Solid
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X = Sodium Hydroxide
T = Sodium Thiosulfate
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[3] **Container Codes:**
A = Amber Glass
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V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: *Level 4 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

Relinquished by: (signature)	Date/Time:
	11/16/23 12:40
Received by: (signature)	Date/Time:
	11/16 1600
Relinquished by: (signature)	Date/Time:
	11/16 1700
Received by: (signature) 5.8°C	Date/Time:
	11-17-23 1040
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Regulatory Program / Standards:
☑ 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

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 SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client EA Engineering

Project Dzus Fastener

MCP/RCP Required no

Deliverable Package Requirement CAT B

Location NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM 11/17/23 1040

Back-Sheet By / Date / Time GL 11/17/23 1856

Temperature Method gun # 5

Temp < 6° C Actual Temperature 5.8

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☐
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

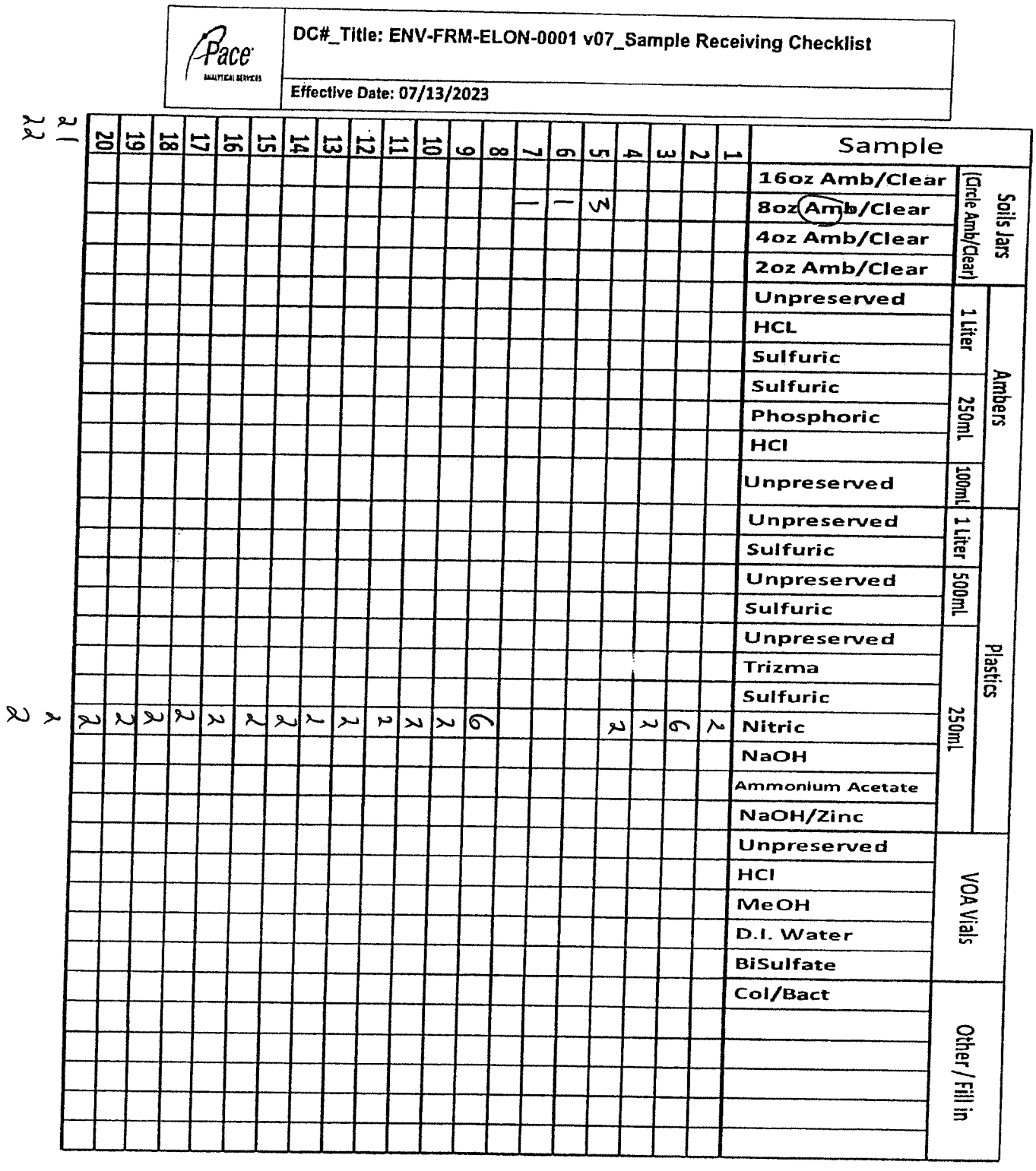
Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.



DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 22
Soils Jars (Circle Amb/Clear)																					
16oz Amb/Clear																					
8oz Amb/Clear					3	1	1														
4oz Amb/Clear																					
2oz Amb/Clear																					
Ambers Unpreserved 1 Liter																					
HCL 1 Liter																					
Sulfuric 250mL																					
Sulfuric 250mL																					
Phosphoric 250mL																					
HCl 250mL																					
Unpreserved 100mL																					
Plastics Unpreserved 1 Liter																					
Sulfuric 1 Liter																					
Unpreserved 500mL																					
Sulfuric 500mL																					
Unpreserved 250mL																					
Trizma 250mL																					
Sulfuric 250mL																					
Nitric 250mL	2	2	6	2	2				6	2	2	2	2	2	2	2	2	2	2	2	2 2
NaOH 250mL																					
Ammonium Acetate 250mL																					
NaOH/Zinc 250mL																					
VOA Vials Unpreserved																					
HCl																					
MeOH																					
D.I. Water																					
BiSulfate																					
Other / Fill in Col/Bact																					

Qualtrax ID: 120836

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