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TECHNICAL MEMORANDUM

TO: James Kruegler, Project Manager
Samantha Salotto, P.E., Chief Remedial Section C

FROM: Hilary Williams, EA Project Manager

RE: June 2024 Groundwater, Surface Water, and Sediment Sample Data Summary
West Islip, Suffolk County, New York, NYSDEC Site No. 152033
Contract/Work Assignment No. D009806-15
EA Project No. 16025-15-00-CP

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) were tasked by the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment Number (No.) D009806-15 to complete monitoring and sampling activities associated with the site management conducted at the Dzus Fastener Company, Inc. Site (152033). EA conducted groundwater, surface water, and sediment sampling from 17 to 18 June 2024 for NYSDEC at the Dzus Fastener Company, Inc. Site, hereinafter referred to as the Site, in accordance with the Site Management Plan (EA 2023).¹ A summary of environmental media samples is presented in **Table 1**. Water level measurements were collected from each groundwater monitoring well in the site network.

1. STANDARDS, CRITERIA, AND GUIDANCE

Standards, criteria, and guidance (SCGs) are published requirements and unpublished guidance, which govern activities that may affect the environment and are widely used at different stages of an investigation and remediation of a site. A standard is a value that has been published and placed into regulation. A guidance value may be used where a standard for a substance or group of substances has not been established for a particular media and type of value. It is important to recognize that SCGs have different applications, with some values appropriate for evaluating risk to ecological receptors and others appropriate for evaluating human health exposures. The analytical data collected during this Site Management sampling effort were evaluated using the following SCGs:

- **Groundwater**
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class GA groundwater standard (NYSDEC 1998)
 - **Application:** Human Health Risk.
 - Protection for groundwater as a source of drinking water.

¹ EA Engineering, P.C. and its affiliate EA Science and Technology (EA). 2023. *Site Management Plan, Revision 2, Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. July.

- Note that Willets Creek, Lake Capri, and groundwater in the area are not used as a source of potable water. Potable water in the area is supplied by the Suffolk County Water Authority which tests and treats drinking water to ensure that it meets and often surpasses all state, federal, and local water quality regulations. Use of the Class GA value provides a conservative comparison point.
- **Values:**
 - Cadmium (5 micrograms per liter [$\mu\text{g}/\text{L}$])
 - Chromium (50 $\mu\text{g}/\text{L}$)
 - Perfluorooctanesulfonic acid (PFOS) (2.7 nanograms per liter [ng/L])
 - Perfluorooctanoic acid (PFOA) (6.7 ng/L)
- **Surface Water**
 - All waters in NYS are assigned a letter classification that denotes their "best uses" (e.g., fishing, swimming, source of drinking water). Willets Creek is defined as a Class C water body, meaning the best usage is fishing, although fishing opportunities in Willets Creek are limited due to restricted access and the relatively small size of the waterbody. Class C waters shall be suitable for fish, shellfish and wildlife propagation and survival. Class C water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class C Water, Type A(C) (NYSDEC 1998)
 - **Application:** Ecological Risk.
 - Values for protection of aquatic life from potential chronic effects are designated Aquatic (Chronic) and noted as A(C).
 - **Values:**
 - Standards are hardness-specific and apply only to the dissolved form (not total).
 - Cadmium (range of 1.33 to 1.53 $\mu\text{g}/\text{L}$ for June 2024)
 - Chromium (range of 46.1 to 53.4 $\mu\text{g}/\text{L}$ for June 2024)
 - PFOS (160,000 ng/L)
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class A Water, Type H(WS) (NYSDEC 1998)
 - The best usages of Class A waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing.
 - Note that surface water from Willets Creek and Lake Capri is not used as a source of potable water. Comparison to the Class A standard is for informational purposes only to provide context for established drinking water criteria.
 - **Application:** Human Health Risk.

- Values for protection of sources of drinking water are designated Health (Water Source) and noted by H(WS).
- **Values:**
 - Cadmium (5 µg/L)
 - Chromium (5 µg/L)
 - PFOS (2.7 ng/L)
 - PFOA (6.7 ng/L)
- **Sediment**
 - **SCG = Guidance:** NYSDEC Freshwater Sediment Guidance Values (SGV) (NYSDEC 2014)
 - **Application:** Ecological Risk.
 - Guidance classifies the sediment as Class A (low risk to aquatic life), Class B (potential risk to aquatic life), or Class C (likely risk to aquatic life).
 - **Values:**
 - Class A: low risk to aquatic life
 - Cadmium (less than 1 mg/kg)
 - Chromium (less than 43 mg/kg).
 - Class B: potential risk to aquatic life; additional testing required to evaluate risk
 - Cadmium (1 – 5 mg/kg)
 - Chromium (43 – 110 mg/kg).
 - Class C: likely risk to aquatic life
 - Cadmium (greater than 5 mg/kg)
 - Chromium (greater than 110 mg/kg).

2. BACKGROUND AND CURRENT CONDITIONS

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 2023).² The asphalt cap is an engineering control included in the Site Management Plan (EA 2023)¹ and a component of the remedy which serves to limit infiltration and erosion at the Site. An increase in cadmium concentrations within the shallow groundwater plume was observed beginning in October 2021. Total cadmium exceeded Class GA groundwater standards at MW-13A with a concentration of 547 µg/L; up from 3.7 µg/L observed in November 2018 (AECOM 2019).³ A confirmation sample of the same well in July 2022 yielded cadmium concentration of 830 µg/L. A slight rebound of total cadmium was observed during the November 2023 and April 2024 sampling, as concentrations increased to 540 µg/L and 540 µg/L, respectively. Removal of the asphalt cap at OU1 potentially allowed for surface water to infiltrate the OU1 treatment cell, mobilizing cadmium into the shallow groundwater. Groundwater at the Site flows in a south/southwest direction and some discharges into/communicates with Willets Creek. Cadmium in the shallow groundwater plume appears to be absorbing to clean backfill

² EA. 2023. *2021 Monitoring and Inspection Report, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York.*

³ AECOM. 2019. *Final Groundwater Sampling Report (November 2018 Sampling Event), Dzus Fasteners Site, Site #1-52-033.*

material placed during the remedial action along the creek in 2019 as evidenced by sediment exceedances of Class C SGVs in the upper reaches of Willetts Creek.

3. GROUNDWATER SAMPLE COLLECTION AND RESULTS

EA collected samples from 17 to 18 June 2024 from 15 groundwater 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) at the Site (**Figure 1**). A field duplicate sample was collected at MW-13A.

The 15 monitoring wells were gauged to develop shallow and deep potentiometric surface contour figures (**Figures 2 and 3**). Groundwater elevations in June 2024 at all monitoring wells were lower than the elevations reported in April 2024, within the range of normal seasonal fluctuation.

Filtered and un-filtered groundwater samples were analyzed for total and dissolved Target Analyte List Metals (including mercury) via U.S. Environmental Protection Agency (EPA) Method 6010; In some samples, dissolved metal concentrations exceed total metal concentrations; this has been observed in previous sampling results. Note that this has not been the case for cadmium or chromium results. During the June 2024 sampling effort, the field team composited groundwater aliquots into a 1-liter container that was then split into a filtered and unfiltered sample in an attempt to avoid this anomaly. The observed difference between filtered and unfiltered results from the June 2024 effort is likely a result of variability in laboratory instrumentation. Cadmium (total and dissolved), iron (total and dissolved), manganese (total and dissolved), and sodium (total and dissolved) exceeded New York State (NYS) Class GA groundwater standards.

Total cadmium in groundwater samples exceeded the NYS Class GA groundwater standard of 5 µg/L at monitoring wells MW-9 (69 µg/L), MW-13A (290 µg/L), and MW-15A (14 µg/L). Dissolved cadmium exceedances in groundwater samples were observed at monitoring wells MW-9 (65µg/L) and MW-13A (280 µg/L). Total and dissolved chromium did not exceed Class GA groundwater standards in any of the wells. Groundwater analytical results and comparable NYS Class GA groundwater standards are summarized in **Table 2** and on **Figure 4**. The cadmium result of 290 µg/L at MW-13A in June 2024 is the lowest result since Site Management sampling began in October 2021. **Figure 5** shows concentration trends for cadmium and chromium in MW-13A from June 2006 through June 2024.

A subset of four monitoring wells (MW-9, MW-13A, MW-17, and MW-18) were sampled for per- and polyfluorinated alkyl substances (PFAS) via EPA Method 1633, upon request by the NYSDEC Division of Fish and Wildlife (DFW). PFAS analysis has been included in the SM program as a result of the Lake Capri fish advisory. With PFAS compounds detected in the tissues of fish collected in Lake Capri, sampling upstream media such as surface water, groundwater, and sediment may help determine potential sources. Perfluorooctanesulfonic acid (PFOS) exceeded the NYS Class GA groundwater standard of 2.7 ng/L at monitoring wells MW-9 (11 ng/L), MW-13A (25 ng/L), MW-17 (32 ng/L) and MW-18 (3.1 ng/L). Perfluorooctanoic acid (PFOA) exceeded the NYS Class GA groundwater standard of 6.7 ng/L at monitoring wells MW-9 (11 ng/L), MW-13A (25 ng/L) and MW-17 (23 ng/L). Groundwater analytical results and comparable NYS Class GA groundwater standards are summarized in **Table 2** and on **Figure 4**.

4. SURFACE WATER SAMPLE COLLECTION AND RESULTS

On 17 June 2024, EA collected surface water samples from nine locations (SW-01, SW-01E, SW-04, SW-04E, SW-06, SW-06E, SW-11, SW-13, and SW-14) in Willets Creek (**Figure 1**). A field duplicate sample was collected at the SW-01 location.

The field-filtered surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010. The unfiltered surface water sample at the same locations were analyzed for total hardness via EPA Method 6010. A subset of three surface water sample locations (SW-01, SW-11, and SW-14) were sampled for PFAS upon request by NYSDEC DFW.

Total hardness of surface water samples ranged from 56 to 67 milligrams per liter. Hardness in surface water was used in accordance with NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (NYSDEC 1998)⁴ to calculate site-specific hardness-corrected chronic surface water standards for dissolved forms of cadmium and chromium. Dissolved cadmium was detected above the individual sample's site-specific hardness-corrected chronic surface water standard in eight of nine samples (SW-01, SW-01E, SW-04, SW-04E, SW-06, SW-06E, SW-13, and SW-14). Dissolved chromium was not detected in surface water samples. Surface water analytical results and comparable site-specific hardness-corrected surface water standards are summarized in **Table 3** and **Figure 6**. PFAS results are also shown on Table 3. There were no exceedances of PFOS, which is the only compound that has a surface water guidance value.

5. SEDIMENT SAMPLE COLLECTION AND RESULTS

On 17 June 2024, EA collected composite sediment samples from 17 locations (SD-01, SD-01E, SD-02, SD-03, SD-04, SD-04E, SD-05, SD-06, SD06E, SD-07, SD-08, SD-09, SD-10, SD-11, SD-12, SD-13, and SD-14) in Willets Creek (**Figure 1**) to evaluate the extent of cadmium and/or chromium migration along the creek corridor. The SD-01 location represents the historical hotspot for cadmium in sediment, prior to remedial action. Concentrations at this location were observed to be as high as 8,200 mg/kg prior to the 2020 remedial action (EA 2017)⁵. A field duplicate sample was collected at the SD-01 location. All sediment samples were analyzed for total cadmium and total chromium via EPA Method 6010. A subset of three sediment sample locations (SD-01, SD-11, and SD-14) were sampled for PFAS upon request by NYSDEC DFW.

Sediment samples were screened against the SGVs to classify into Class A, B, or C sediments. Sediment samples from SD-04E, SD-05, SD-08, SD-09, SD-10, SD-11, SD-13, and SD-14 fall within the Class A range for cadmium. Sediment samples from SD-01E, SD-02, SD-03, and SD-12 fall within the Class B range for cadmium. Sediment samples from SD-01, SD-04, SD-06, SD-06E, and SD-07 fall within the Class C range for cadmium. All sediment samples are classified as Class A for chromium. Sediment analytical results and comparable NYSDEC SGVs are

⁴ New York State Department of Environmental Conservation (NYSDEC). 1998. *Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. Division of Water, Albany, New York.

⁵ EA. 2017. *Final OU3 Remedial Investigation Report, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York*.

summarized in **Table 4** and on **Figure 6**. PFAS results are also shown on Table 4. There are no sediment SCGs for comparison to PFAS results.

6. CONCLUSIONS AND RECOMMENDATIONS

Continued groundwater sampling is recommended to monitor the migration and possible attenuation of the cadmium plume. EA plans to continue sampling groundwater, surface water, and sediment on a quarterly schedule, with the next event planned for September 2024. EA is completing a supplemental groundwater investigation at the Site to increase resolution of contaminant distribution in the aquifer, better delineate the dissolved-phase cadmium plume, and refine the conceptual site model.⁶ Results from the investigation and Quarter 2 sampling effort will aid in the development and design of an interim remedial measure to address groundwater contamination.

Surface water and sediment analytical results indicate that cadmium from groundwater is continuing to discharge into Willets Creek and mobilize downstream. Sediments in Willets Creek with cadmium exceedances of Class C values are focused in the SD-01 (historical hot spot) area. Sediment samples in SD-13 and SD-14 indicate that cadmium has not yet deposited in sediments in the far south reaches of the creek. Surface water results at SW-13 and SW-14 indicate that the dissolved cadmium is moving to lower reaches of the creek.

One or more PFAS compounds were detected in groundwater, surface water, and sediment samples from the site. SCGs for PFAS are limited to PFOS and PFOA in groundwater and PFOS surface water. Groundwater exceedances were observed both upgradient and downgradient from OU1 suggesting a more ubiquitous source. The observed groundwater impacts do not appear to be causing exceedances in Willets Creek sediment given the limited detections in sediment. Going forward, biennial PFAS sampling concurrent with fish sampling is recommended to monitor PFAS concentrations at the Site.

A sampling plan will be developed by EA to define the scope for the Quarter 3 2024 sampling and evaluate potential benefits of including other analyses.

⁶ EA Engineering, P.C. and its Affiliate EA Science and Technology (EA). 2024. *Letter Workplan for Groundwater Investigation Phase I, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York.*

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Attachments

- A Field Book Log
- B Chain-of-Custody
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Tables

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Table 1. Sample Collection and Analyses Summary

Samples	Sample Matrix	Total TAL Metals via EPA Method 6010	Dissolved TAL Metals via EPA Method 6010	Total Mercury via EPA Method 7470A	Dissolved Mercury via EPA Method 7470A	PFAS via EPA Method 1633	Total Cadmium and Chromium via EPA Method 6010	Dissolved Cadmium and Chromium via EPA Method 6010	Hardness via EPA Method 6010
GROUNDWATER SAMPLING									
Number of Parent Samples	Groundwater	15	15	15	15	4			
Field Duplicate		1	1	1	1	1			
Matrix Spike/Matrix Spike Duplicate		1	1	1	1	1			
Total Number of Analyses		17	17	17	17	6			
SURFACE WATER SAMPLING									
Number of Parent Samples	Willetts Creek Surface Water					3		9	3
Field Duplicate						1		1	1
Matrix Spike/Matrix Spike Duplicate						1		1	1
Total Number of Analyses						5		11	5
SEDIMENT SAMPLING									
Number of Parent Samples	Willetts Creek Surficial Sediment					3	17		
Field Duplicate						1	1		
Matrix Spike/Matrix Spike Duplicate						1	1		
Total Number of Analyses						5	19		

Notes:

EPA = U.S. Environmental Protection Agency

PFAS = Per- and polyfluoroalkyl substances

TAL = Target Analyte List

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Table 2. Groundwater Analytical Results

		Location ID	MW-1	MW-2	MW-3	MW-9
		Sample Name	152033-SM-MW-1-061824	152033-SM-MW-2-061824	152033-SM-MW-3-061824	152033-SM-MW-9-061724
		Sample Date				
		Parent Sample	6/18/2024	6/18/2024	6/18/2024	6/17/2024
Analyte	NY CLASS GA GW(AWQS)	Unit				
Dissolved Metals (SW6010D/SW7470A)						
Aluminum	NSL	ug/L	< 25 U	< 25 U	610	< 25 U
Antimony	3	ug/L	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	ug/L	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	ug/L	27 J	46 J	11 J	26 J
Beryllium	3	ug/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	ug/L	< 1.5 U	3.4 J	< 1.5 U	65
Calcium	NSL	ug/L	12000	34000	44000	61000
Chromium, Total	50	ug/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	ug/L	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	ug/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	ug/L	450	< 36 U	40 J	88
Lead	25	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	ug/L	2700	3700	470	6800
Manganese	300	ug/L	360	8.0 JB	3.5 J	210
Mercury	0.7	ug/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	ug/L	< 4.6 U	< 4.6 U	< 4.6 U	< 4.6 U
Potassium	NSL	ug/L	1800 J	4700	13000	3600
Selenium	10	ug/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	ug/L	34000	43000	14000	21000
Thallium	0.5	ug/L	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	ug/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	ug/L	37	< 8 U	8.2 J	< 8 U
Total Metals (SW6010D/SW7470A)						
Aluminum	NSL	ug/L	290	57	2400	55
Antimony	3	ug/L	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	ug/L	< 5 U	< 5 U	8.8 J	< 5 U
Barium	1000	ug/L	28 J	46 J	14 J	26 J
Beryllium	3	ug/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	ug/L	< 1.5 U	4.0 J	1.9 J	69
Calcium	NSL	ug/L	12000	35000	46000	63000
Chromium, Total	50	ug/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	ug/L	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	ug/L	16	< 9.5 U	14	< 9.5 U
Iron	300	ug/L	16000	74	1300	120
Lead	25	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	ug/L	2800	3900	620	7100
Manganese	300	ug/L	360	7.9 J	11	220
Mercury	0.7	ug/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	ug/L	< 4.6 U	< 4.6 U	6.2 J	< 4.6 U
Potassium	NSL	ug/L	1800 J	4900	13000	3700
Selenium	10	ug/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	ug/L	35000	44000	14000	22000
Thallium	0.5	ug/L	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	ug/L	< 5.4 U	< 5.4 U	10	< 5.4 U
Zinc	2000	ug/L	100	< 8 U	< 8 U	< 8 U
PFAS (E1633)						
11-Chloroicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3Ouds)	NSL	ng/L	NA	NA	NA	< 0.96 U
1H,1H, 2H, 2H-Perfluorodecanic sulfonic acid	NSL	ng/L	NA	NA	NA	< 1 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	< 0.67 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	< 2.7 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	< 10 U
3-Perfluorohexyl propionic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	< 8.5 U
3-Perfluoropropyl propionic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	< 2 U
4,8-Dioxa-3H-perfluorooctanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	< 0.74 U
9-Chloroheptadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	< 0.86 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	< 0.92 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	< 0.3 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOAAA)	NSL	ng/L	NA	NA	NA	< 0.36 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	< 2.4 U
N-methyl perfluorooctanesulfonamide (NMcFOSA)	NSL	ng/L	NA	NA	NA	< 0.29 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMcFOAAA)	NSL	ng/L	NA	NA	NA	< 0.32 U
N-methyl perfluorooctanesulfonamidoethanol (NMcFOSE)	NSL	ng/L	NA	NA	NA	< 2.4 U
Nonafluoro-3,6-dioxahexadecanoic acid (NFDHAA)	NSL	ng/L	NA	NA	NA	< 0.49 U
Perfluoro-2-ethoxyethane sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	< 0.31 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	< 0.5 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	< 0.48 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	0.99
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	5.8
Perfluorododecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	< 0.26 U
Perfluorododecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	0.42 J
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	< 0.26 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	< 0.18 U
Perfluorohexadecanoic acid (PFHDa)	NSL	ng/L	NA	NA	NA	< 0.3 U
Perfluorohexadecanoic acid (PFHpa)	NSL	ng/L	NA	NA	NA	5.7
Perfluorohexanesulfonic acid (PFHs)	NSL	ng/L	NA	NA	NA	1.4
Perfluorohexanoic acid (PFHA)	NSL	ng/L	NA	NA	NA	4.4
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	< 0.23 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	1.1
Perfluorooctane Sulfonamide (FOSOA)	NSL	ng/L	NA	NA	NA	< 0.21 U
Perfluorooctanesulfonic acid (FOPOS)	2.7	ng/L	NA	NA	NA	11
Perfluorooctanoic acid (FOFOA)	6.7	ng/L	NA	NA	NA	11
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	< 0.23 U
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	7.0
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	< 0.23 U
Perfluorotridecanoic Acid (PTra/PTrDA)	NSL	ng/L	NA	NA	NA	< 0.27 U
Perfluoroundecanoic Acid (PFUma)	NSL	ng/L	NA	NA	NA	< 0.18 U
Total Suspended Solids		mg/L	NA	NA	NA	< 10 U

Notes:

mg/L = Milligram(s) per liter

ng/L = Nanogram(s) per liter

FD = Field duplicate

NA = Not Analyzed

J = Estimated value

NY CLASS GA GW(AWQS) = New York State Department of Environmental Conservation Groundwater Guidance Values (June 2014)

NSL = No Screening Level

U = Qualifier denotes the analyte was analyzed but not detected.

Bold and shaded values exceed the New York GA AWQS.

Table 2. Groundwater Analytical Results

Location ID		MW-9B	MW-13A	MW-13A	MW-13B
Sample Name		152033-SM-MW-9B-061724	152033-SM-MW-13A-061724	152033-SM-MW-FD-01-061724	152033-SM-MW-13B-061724
Sample Date				152033-SM-MW-13A-20240617	
Parent Sample		6/17/2024	6/17/2024	6/17/2024	6/17/2024
Analyte	NY CLASS GA GW(AWQS)	Unit			
Dissolved Metals (SW6010D/SW7470A)					
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	< 9.8 U	31 J	29 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	< 1.5 U	280	270
Calcium	NSL	µg/L	5900	34000	8500
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	18
Cobalt	NSL	µg/L	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	< 36 U	90	< 36 U
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	910	4500	4500
Manganese	300	µg/L	9.0 J	12 B	11 B
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	< 4.6 U	< 4.6 U	< 4.6 U
Potassium	NSL	µg/L	1400 J	3400	3400
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	14000	50000	49000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	< 8 U
Total Metals (SW6010D/SW7470A)					
Aluminum	NSL	µg/L	420	40 J	43 J
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	7.0 J	< 5 U
Barium	1000	µg/L	11 J	31 J	29 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	< 1.5 U	290	290
Calcium	NSL	µg/L	6200	35000	35000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	21
Cobalt	NSL	µg/L	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	µg/L	< 9.5 U	26	< 9.5 U
Iron	300	µg/L	540	520	430
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	1000	4800	4700
Manganese	300	µg/L	19	50	42
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	< 4.6 U	< 4.6 U	< 4.6 U
Potassium	NSL	µg/L	1400 J	3500	3500
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	14000	51000	50000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	< 8 U
PFAS (E1633)					
11-Chlorocicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDs)	NSL	ng/L	NA	< 0.97 U	< 1 U
1H,1H,2H,2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	< 1 U	< 1.1 U
1H,1H,2H,2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	< 0.68 U	< 0.73 U
1H,1H,2H,2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	< 2.7 U	< 2.9 U
2H,2H,3H,3H-Perfluorooctanoic acid (3:3:FTCA)	NSL	ng/L	NA	< 10 U	< 11 U
3-Perfluorohexyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	< 8.6 U	< 9.2 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	< 2 U	< 2.1 U
4,8-Doxa-3H-perfluoronomonic acid (ADONA)	NSL	ng/L	NA	< 0.75 U	< 0.8 U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	< 0.87 U	< 0.94 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	< 0.94 U	< 1 U
N-ethyl perfluorooctanesulfonamide (NeFOUSA)	NSL	ng/L	NA	< 0.31 U	< 0.33 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NeFOOSA)	NSL	ng/L	NA	< 0.36 U	< 0.39 U
N-ethyl perfluorooctanesulfonamidoethanol (NeFOSE)	NSL	ng/L	NA	< 2.4 U	< 2.6 U
N-methyl perfluorooctanesulfonamido (NmFOUSA)	NSL	ng/L	NA	< 0.3 U	< 0.32 U
N-methyl perfluorooctanesulfonamidoacetic acid (NmFOSSA)	NSL	ng/L	NA	< 0.32 U	< 0.35 U
N-methyl perfluorooctanesulfonamidoethanol (NmFOSE)	NSL	ng/L	NA	< 2.5 U	< 2.7 U
Nonafluoro-3,6-dioxahexaphanoic acid (NFDAH)	NSL	ng/L	NA	< 0.5 U	< 0.54 U
Perfluorooctoxyethane sulfonic acid (PFESOA)	NSL	ng/L	NA	< 0.32 U	< 0.34 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	< 0.5 U	< 0.54 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	< 0.49 U	< 0.53 U
Perfluorobutanesulfonic acid (PBFS)	NSL	ng/L	NA	3.2	3.7
Perfluorobutanoic Acid	NSL	ng/L	NA	11	12
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	< 0.26 U	< 0.28 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	0.91	1.1
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	< 0.26 U	< 0.28 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	< 0.18 U	< 0.19 U
Perfluorophenylsulfonic acid (PHpS)	NSL	ng/L	NA	0.39 J	< 0.32 U
Perfluorophenoic acid (PHpA)	NSL	ng/L	NA	7.9	8.5
Perfluorophenoxane sulfonic acid (PHpxS)	NSL	ng/L	NA	3.5	3.9
Perfluorophenoxyacetic acid (PHxA)	NSL	ng/L	NA	9.7	11
Perfluroisobutanesulfonic Acid (PFNS)	NSL	ng/L	NA	< 0.23 U	< 0.25 U
Perfluroisobutanoic acid (PFIWA)	NSL	ng/L	NA	1.9	2.1
Perflurooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	< 0.21 U	< 0.23 U
Perflurooctanesulfonic acid (PFOS)	2.7	ng/L	NA	25	28
Perflurooctanoic acid (PFOA)	6.7	ng/L	NA	25	27
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	0.46 J	0.53 J
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	11	12
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	< 0.24 U	< 0.25 U
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	< 0.27 U	< 0.29 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	< 0.18 U	< 0.2 U
Total Suspended Solids	NSL	mg/L	NA	< 10 U	< 10 U

Notes:

mg/L = Milligram(s) per liter

ng/L = Nanogram(s) per liter

FB = Field duplicate

NA = Not Analyzed

J = Estimated value

NY CLASS GA GW(AWQS) = New York State Department of Environmental Conservation Groundwater Guidance Values (June 2014)

NSL = No Screening Level

U = Qualifier denotes the analyte was analyzed but not detected.

Bold and shaded values exceed the New York GA AWQS.

Table 2. Groundwater Analytical Results

Location ID		MW-15A	MW-15B	MW-17	MW-18
Sample Name		152033-SM-MW-15A-061824	152033-SM-MW-15B-061824	152033-SM-MW-17-061824	152033-SM-MW-18-061824
Parent Sample		6/18/2024	6/18/2024	6/18/2024	6/18/2024
Analyte	NY CLASS GA GW(AWQS) Unit				
Dissolved Metals (SW6010D/SW7470A)					
Aluminum	NSL $\mu\text{g/L}$	< 25 U	< 25 U	53	< 25 U
Antimony	3 $\mu\text{g/L}$	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25 $\mu\text{g/L}$	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000 $\mu\text{g/L}$	< 9.8 U	41 J	28 J	< 9.8 U
Beryllium	3 $\mu\text{g/L}$	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5 $\mu\text{g/L}$	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL $\mu\text{g/L}$	16000	12000	21000	17000
Chromium, Total	50 $\mu\text{g/L}$	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL $\mu\text{g/L}$	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200 $\mu\text{g/L}$	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300 $\mu\text{g/L}$	< 36 U	2400	180	< 36 U
Lead	25 $\mu\text{g/L}$	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000 $\mu\text{g/L}$	1600	5300	5800	1600
Manganese	300 $\mu\text{g/L}$	2.2 JB	120	260	2.6 JB
Mercury	0.7 $\mu\text{g/L}$	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100 $\mu\text{g/L}$	< 4.6 U	< 4.6 U	< 4.6 U	< 4.6 U
Potassium	NSL $\mu\text{g/L}$	2100	1400 J	1900 J	860 J
Selenium	10 $\mu\text{g/L}$	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50 $\mu\text{g/L}$	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000 $\mu\text{g/L}$	12000	37000	18000	19000
Thallium	0.5 $\mu\text{g/L}$	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL $\mu\text{g/L}$	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000 $\mu\text{g/L}$	< 8 U	< 8 U	20	< 8 U
Total Metals (SW6010D/SW7470A)					
Aluminum	NSL $\mu\text{g/L}$	61	29 J	1200	41 J
Antimony	3 $\mu\text{g/L}$	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25 $\mu\text{g/L}$	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000 $\mu\text{g/L}$	< 9.8 U	40 J	35 J	< 9.8 U
Beryllium	3 $\mu\text{g/L}$	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5 $\mu\text{g/L}$	14	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL $\mu\text{g/L}$	17000	13000	22000	18000
Chromium, Total	50 $\mu\text{g/L}$	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL $\mu\text{g/L}$	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200 $\mu\text{g/L}$	< 9.5 U	< 9.5 U	12	< 9.5 U
Iron	300 $\mu\text{g/L}$	100	2600	2800	42 J
Lead	25 $\mu\text{g/L}$	< 4.4 U	< 4.4 U	17	< 4.4 U
Magnesium	35000 $\mu\text{g/L}$	1700	5400	6000	1600
Manganese	300 $\mu\text{g/L}$	240	120	370	82
Mercury	0.7 $\mu\text{g/L}$	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100 $\mu\text{g/L}$	< 4.6 U	< 4.6 U	< 4.6 U	< 4.6 U
Potassium	NSL $\mu\text{g/L}$	2100	1400 J	2000	860 J
Selenium	10 $\mu\text{g/L}$	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50 $\mu\text{g/L}$	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000 $\mu\text{g/L}$	12000	37000	18000	19000
Thallium	0.5 $\mu\text{g/L}$	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL $\mu\text{g/L}$	< 5.4 U	< 5.4 U	7.8 J	< 5.4 U
Zinc	2000 $\mu\text{g/L}$	< 8 U	< 8 U	54	< 8 U
PFAS (E1633)					
11-Chloroecosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDs)	NSL ng/L	NA	NA	< 0.98 U	< 1 U
1H,1H,2H,2H-Perfluorodecanoic acid	NSL ng/L	NA	NA	< 1 U	< 1 U
1H,1H,2H,2H-Perfluorohexane sulfonic acid	NSL ng/L	NA	NA	< 0.68 U	< 0.69 U
1H,1H,2H,2H-Perfluorooctane sulfonic acid	NSL ng/L	NA	NA	< 2.8 U	< 2.8 U
2H,2H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL ng/L	NA	NA	< 10 U	< 11 U
3-Perfluoropropyl propanoic acid (7:3FTCA)	NSL ng/L	NA	NA	< 8.7 U	< 8.8 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL ng/L	NA	NA	< 2 U	< 2 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL ng/L	NA	NA	< 0.75 U	< 0.76 U
9-Chlorodecadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NSL ng/L	NA	NA	< 0.88 U	< 0.9 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL ng/L	NA	NA	< 0.95 U	< 0.96 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL ng/L	NA	NA	< 0.31 U	< 0.31 U
N-ethyl perfluorooctanesulfonamidoacetate (NEtFOAAA)	NSL ng/L	NA	NA	< 0.37 U	< 0.37 U
N-ethyl perfluorooctanesulfonamidoether (NEtFOSE)	NSL ng/L	NA	NA	< 2.5 U	< 2.5 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL ng/L	NA	NA	< 0.3 U	< 0.31 U
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOAAA)	NSL ng/L	NA	NA	< 0.33 U	< 0.33 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL ng/L	NA	NA	< 2.5 U	< 2.5 U
Nonafluoro-3,6-dioxahexanoic acid (NFHDHA)	NSL ng/L	NA	NA	< 0.51 U	< 0.51 U
Perfluorooctane sulfonic acid (PFESOA)	NSL ng/L	NA	NA	< 0.32 U	< 0.32 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL ng/L	NA	NA	< 0.51 U	< 0.52 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL ng/L	NA	NA	< 0.49 U	< 0.5 U
Perfluorobutanesulfonic acid (PFBS)	NSL ng/L	NA	NA	5.3	0.67 J
Perfluorobutanoic Acid	NSL ng/L	NA	NA	11	< 2 U
Perfluorocanesulfonic acid (PFDS)	NSL ng/L	NA	NA	< 0.26 U	0.30 J
Perfluorodecanoic acid (PFDsA)	NSL ng/L	NA	NA	1.0	0.22 J
Perfluorododecanesulfonic acid (PFDoS)	NSL ng/L	NA	NA	< 0.26 U	< 0.27 U
Perfluorododecanoic acid (PFDsA)	NSL ng/L	NA	NA	< 0.18 U	< 0.19 U
Perfluorohexamethylene sulfonic acid (PFHxsS)	NSL ng/L	NA	NA	< 0.3 U	< 0.31 U
Perfluorohexamonoic acid (PFHxA)	NSL ng/L	NA	NA	8.2	0.41 J
Perfluorohexamonoic acid (PFHxs)	NSL ng/L	NA	NA	3.1	1.1
Perfluorohexamonoic acid (PFHxA)	NSL ng/L	NA	NA	20	0.64 J
Perflurononanesulfonic Acid (PFNS)	NSL ng/L	NA	NA	< 0.23 U	< 0.23 U
Perflurononanoic Acid (PFNA)	NSL ng/L	NA	NA	6.2	0.85 J
Perfluorooctane Sulfonamide (PFOSA)	NSL ng/L	NA	NA	< 0.21 U	< 0.22 U
Perfluorooctanesulfonic acid (PFOS)	2.7 ng/L	NA	NA	32	3.1
Perfluorooctanoic acid (PFOA)	6.7 ng/L	NA	NA	23	0.93
Perfluoropentanesulfonic Acid (PPeS)	NSL ng/L	NA	NA	< 0.23 U	< 0.24 U
Perfluoropentanoic Acid (PPePA)	NSL ng/L	NA	NA	13	0.72 J
Perfluorotetradecanoic acid (PTeDA)	NSL ng/L	NA	NA	< 0.24 U	< 0.24 U
Perfluorotridecanoic Acid (PTriFA/PTrDA)	NSL ng/L	NA	NA	< 0.27 U	< 0.28 U
Perfluoroundecanoic Acid (PUUnA)	NSL ng/L	NA	NA	0.21 J	< 0.19 U
Total Suspended Solids	NSL mg/L	NA	NA	28	< 10 U

Notes:

mg/L = Milligram(s) per liter

ng/L = Nanogram(s) per liter

FD = Field duplicate

NA = Not Analyzed

J = Estimated value

NY CLASS GA GW(AWQS) = New York State Department of Environmental Conservation Groundwater Guidance Values (June 2014)

NSL = No Screening Level

U = Qualifier denotes the analyte was analyzed but not detected.

Bold and shaded values exceed the New York GA AWQS.

Table 2. Groundwater Analytical Results

Location ID		MW-22A	MW-22B	MW-23A	MW-23B
Sample Name		152033-SM-MW-22A-061824	152033-SM-MW-22B-061824	152033-SM-MW-23A-061824	152033-SM-MW-23B-061824
Sample Date					
Parent Sample		6/18/2024	6/18/2024	6/18/2024	6/18/2024
Analyte	NY CLASS GA GW(AWQS)	Unit			
Dissolved Metals (SW6010D/SW7470A)					
Aluminum	NSL	ug/L	<25 U	<25 U	140
Antimony	3	ug/L	<11 U	<11 U	<11 U
Arsenic	25	ug/L	<5 U	<5 U	<5 U
Barium	1000	ug/L	11 J	23 J	42 J
Beryllium	3	ug/L	<0.9 U	<0.9 U	<0.9 U
Cadmium	5	ug/L	<1.5 U	<1.5 U	<1.5 U
Calcium	NSL	ug/L	14000	32000	35000
Chromium, Total	50	ug/L	<5.3 U	<5.3 U	<5.3 U
Cobalt	NSL	ug/L	<2.7 U	<2.7 U	<2.7 U
Copper	200	ug/L	<9.5 U	<9.5 U	<9.5 U
Iron	300	ug/L	2000	36 U	1300
Lead	25	ug/L	<4.4 U	<4.4 U	<4.4 U
Magnesium	35000	ug/L	3200	5300	6600
Manganese	300	ug/L	140	370	180
Mercury	0.7	ug/L	<0.12 U	<0.12 U	<0.12 U
Nickel	100	ug/L	<4.6 U	<4.6 U	<4.6 U
Potassium	NSL	ug/L	1200 J	2800	4900
Selenium	10	ug/L	<8.5 U	<8.5 U	<8.5 U
Silver	50	ug/L	<4.4 U	<4.4 U	<4.4 U
Sodium	20000	ug/L	24000	15000	53000
Thallium	0.5	ug/L	<16 U	<16 U	<16 U
Vanadium	NSL	ug/L	<5.4 U	<5.4 U	<5.4 U
Zinc	2000	ug/L	<8 U	<8 U	8.7 J
Total Metals (SW6010D/SW7470A)					
Aluminum	NSL	ug/L	38 J	<25 U	160
Antimony	3	ug/L	<11 U	<11 U	<11 U
Arsenic	25	ug/L	<5 U	<5 U	<5 U
Barium	1000	ug/L	10 J	26 J	49 J
Beryllium	3	ug/L	<0.9 U	<0.9 U	<0.9 U
Cadmium	5	ug/L	<1.5 U	<1.5 U	2.2 J
Calcium	NSL	ug/L	15000	31000	36000
Chromium, Total	50	ug/L	<5.3 U	<5.3 U	6.7 J
Cobalt	NSL	ug/L	<2.7 U	<2.7 U	<2.7 U
Copper	200	ug/L	<9.5 U	<9.5 U	19
Iron	300	ug/L	2400	780	1400
Lead	25	ug/L	<4.4 U	<4.4 U	<4.4 U
Magnesium	35000	ug/L	3300	5100	6800
Manganese	300	ug/L	140	730	180
Mercury	0.7	ug/L	<0.12 U	<0.12 U	<0.12 U
Nickel	100	ug/L	<4.6 U	<4.6 U	<4.6 U
Potassium	NSL	ug/L	1300 J	2700	4900
Selenium	10	ug/L	<8.5 U	<8.5 U	<8.5 U
Silver	50	ug/L	<4.4 U	<4.4 U	<4.4 U
Sodium	20000	ug/L	25000	15000	54000
Thallium	0.5	ug/L	<16 U	<16 U	<16 U
Vanadium	NSL	ug/L	<5.4 U	<5.4 U	<5.4 U
Zinc	2000	ug/L	<8 U	<8 U	40
PFAS (E1633)					
11-Chlorociclohexafluoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OUds)	NSL	ng/L	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA
3-Perfluorohexyl propionic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA
3-Perfluoropropyl propionic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS)	NSL	ng/L	NA	NA	NA
Hexafluoropropene oxide dimer (HFPO-DA)	NSL	ng/L	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEFOSA)	NSL	ng/L	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEFOSE)	NSL	ng/L	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMFOSA)	NSL	ng/L	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMFOSSA)	NSL	ng/L	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMFOSE)	NSL	ng/L	NA	NA	NA
Nonafluoro-3,6-dioxahexapeptone acid (NF9HA)	NSL	ng/L	NA	NA	NA
Perfluoro-2-ethoxyethane sulfonic acid (PFEEA)	NSL	ng/L	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA
Perfluorobutanesulfonic acid (PBBS)	NSL	ng/L	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA
Perfluorodecanoic Acid (PFDS)	NSL	ng/L	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA
Perfluorododecanoic acid (PFDaA)	NSL	ng/L	NA	NA	NA
Perfluorohexanesulfonic acid (PFHs)	NSL	ng/L	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA
Perfluorohexanoic Acid (PFNS)	NSL	ng/L	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDa)	NSL	ng/L	NA	NA	NA
Perfluorotridecanoic Acid (PTriA/PFTrDA)	NSL	ng/L	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA
Total Suspended Solids	NSL	mg/L	NA	NA	NA

Notes:

mg/L = Milligram(s) per liter

ng/L = Nanogram(s) per liter

FD = Field duplicate

NA = Not Analyzed

J = Estimated value

NY CLASS GA GW(AWQS) = New York State Department of Environmental Conservation Groundwater Guidance Values (June 2014)

NSL = No Screening Level

U = Qualifier denotes the analyte was analyzed but not detected.

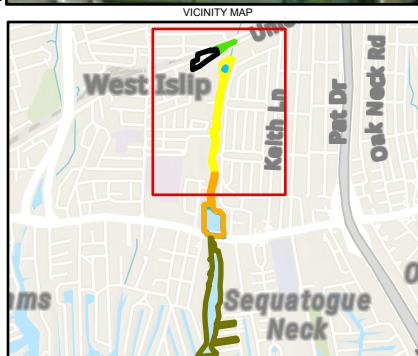
Bold and shaded values exceed the New York GA AWQS.

Table 3. Surface Water Analytical Results												
Location ID	SWSED-01	SWSED-01	SWSED-01E	SWSED-04	SWSED-04E	SWSED-06	SWSED-06E	SWSED-11	SWSED-13	SWSED-14		
Sample Name	152033-SM-SW-01-061724	152033-SM-SW-01-061724	152033-SM-SW-01-061724	152033-SM-SW-04-061724	152033-SM-SW-04E-061724	152033-SM-SW-06-061724	152033-SM-SW-06E-061724	152033-SM-SW-11-061724	152033-SM-SW-13-061724	152033-SM-SW-14-061724		
Parent Sample	152033-SM-SW-01-061724	152033-SM-SW-01-061724	152033-SM-SW-01-061724	152033-SM-SW-04-061724	152033-SM-SW-04E-061724	152033-SM-SW-06-061724	152033-SM-SW-06E-061724	152033-SM-SW-11-061724	152033-SM-SW-13-061724	152033-SM-SW-14-061724		
Sample Date	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	
AWQS Class C Aqueous Analyte	Unit											
Total Hardness (SW6010D)												
Hardness (As CaCO ₃)	mg/L	NSL	mg/L	63	62	58	67	62	58	67	56	57
NYS AWQS Class C Aqueous (Chronic) Hardness-Corrected Standard												
Cadmium ¹	ug/L	NSL	ug/L	1.46	1.44	1.44	1.53	1.44	1.36	1.53	1.33	1.35
Chromium	ug/L	NSL	ug/L	50.8	50.1	50.1	47.4	53.4	50.1	47.4	51.4	46.8
Chloride ¹	ug/L	NSL	ug/L	6.00	5.95	5.95	5.62	6.36	5.95	5.62	6.36	5.54
Lead ¹	ug/L	NSL	ug/L	2.28	2.24	2.24	2.08	2.44	2.24	2.08	2.44	2.04
Mercury ¹	ug/L	NSL	ug/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Nickel ¹	ug/L	NSL	ug/L	34.6	34.1	34.1	32.3	36.4	34.1	32.3	36.4	31.3
Zinc ¹	ug/L	NSL	ug/L	79.2	78.2	78.2	73.9	83.5	78.2	73.9	81.5	71.7
Dissolved Metals (SW6010D)												
Aluminum	ug/L	NSL	ug/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Boron	ug/L	NSL	ug/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	ug/L	NSL	ug/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	ug/L	NSL	ug/L	27 J	27 J	27 J	29 J	29 J	28 J	25 J	25 J	24 J
Beryllium	ug/L	NSL	ug/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	ug/L	See Above	ug/L	16	16	16	6.3	8.8	24	24	1.5 U	3.0 J
Chromium	ug/L	NSL	ug/L	17000	17000	17000	16000	16000	16000	16000	16000	16000
Chromium, Total	ug/L	See Above	ug/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	s	NSL	ug/L	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	ug/L	See Above	ug/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	ug/L	NSL	ug/L	230	230	230	230	230	230	230	230	230
Lead	ug/L	See Above	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	ug/L	NSL	ug/L	3400	3300	3300	3400	3300	3200	3200	3500	3400
Manganese	ug/L	NSL	ug/L	510	500	520	580	620	470	520	420	430
Mercury	ug/L	NSL	ug/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	ug/L	See Above	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Potassium	ug/L	NSL	ug/L	2400	2400	2300	2200	2200	2300	2200	2000	2000 J
Selenium	ug/L	NSL	ug/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	ug/L	NSL	ug/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	ug/L	NSL	ug/L	32000	32000	30000	31000	32000	33000	29000	29000	28000
Vanadium	ug/L	NSL	ug/L	8	8	8	14 U	16 U	16 U	16 U	16 U	16 U
Vanadomolybdate	ug/L	NSL	ug/L	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U
Zinc	ug/L	See Above	ug/L	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U
PFAS (E1633)												
11-Chloro-3,3-dimethyl-1,2-dioxane-1,3-diol	ng/L	NSL	ng/L	< 1 U	< 1 U	NA	NA	NA	NA	NA	NA	< 1 U
11-Chloro-3,3-dimethyl-1,2-dioxane-1,3-diol	ug/L	NSL	ug/L	< 1 U	< 1 U	NA	NA	NA	NA	NA	NA	< 1 U
11,11,2H,2H-Perfluorooctane sulfonic acid	ng/L	NSL	ng/L	< 0.69 U	< 0.71 U	NA	NA	NA	NA	NA	NA	< 0.71 U
11,11,2H,2H-Perfluorooctane sulfonic acid	ug/L	NSL	ug/L	< 2.8 U	< 2.8 U	NA	NA	NA	NA	NA	NA	< 2.9 U
11,11,2H,2H,3H,3H,4H,4H,5H,5H,6H,6H,7H,7H,8H,8H,9H,9H,10H,10H,11H,11H,12H,12H,13H,13H,14H,14H,15H,15H,16H,16H,17H,17H,18H,18H,19H,19H,20H,20H,21H,21H,22H,22H,23H,23H,24H,24H,25H,25H,26H,26H,27H,27H,28H,28H,29H,29H,30H,30H,31H,31H,32H,32H,33H,33H,34H,34H,35H,35H,36H,36H,37H,37H,38H,38H,39H,39H,40H,40H,41H,41H,42H,42H,43H,43H,44H,44H,45H,45H,46H,46H,47H,47H,48H,48H,49H,49H,50H,50H,51H,51H,52H,52H,53H,53H,54H,54H,55H,55H,56H,56H,57H,57H,58H,58H,59H,59H,60H,60H,61H,61H,62H,62H,63H,63H,64H,64H,65H,65H,66H,66H,67H,67H,68H,68H,69H,69H,70H,70H,71H,71H,72H,72H,73H,73H,74H,74H,75H,75H,76H,76H,77H,77H,78H,78H,79H,79H,80H,80H,81H,81H,82H,82H,83H,83H,84H,84H,85H,85H,86H,86H,87H,87H,88H,88H,89H,89H,90H,90H,91H,91H,92H,92H,93H,93H,94H,94H,95H,95H,96H,96H,97H,97H,98H,98H,99H,99H,100H,100H,101H,101H,102H,102H,103H,103H,104H,104H,105H,105H,106H,106H,107H,107H,108H,108H,109H,109H,110H,110H,111H,111H,112H,112H,113H,113H,114H,114H,115H,115H,116H,116H,117H,117H,118H,118H,119H,119H,120H,120H,121H,121H,122H,122H,123H,123H,124H,124H,125H,125H,126H,126H,127H,127H,128H,128H,129H,129H,130H,130H,131H,131H,132H,132H,133H,133H,134H,134H,135H,135H,136H,136H,137H,137H,138H,138H,139H,139H,140H,140H,141H,141H,142H,142H,143H,143H,144H,144H,145H,145H,146H,146H,147H,147H,148H,148H,149H,149H,150H,150H,151H,151H,152H,152H,153H,153H,154H,154H,155H,155H,156H,156H,157H,157H,158H,158H,159H,159H,160H,160H,161H,161H,162H,162H,163H,163H,164H,164H,165H,165H,166H,166H,167H,167H,168H,168H,169H,169H,170H,170H,171H,171H,172H,172H,173H,173H,174H,174H,175H,175H,176H,176H,177H,177H,178H,178H,179H,179H,180H,180H,181H,181H,182H,182H,183H,183H,184H,184H,185H,185H,186H,186H,187H,187H,188H,188H,189H,189H,190H,190H,191H,191H,192H,192H,193H,193H,194H,194H,195H,195H,196H,196H,197H,197H,198H,198H,199H,199H,200H,200H,201H,201H,202H,202H,203H,203H,204H,204H,205H,205H,206H,206H,207H,207H,208H,208H,209H,209H,210H,210H,211H,211H,212H,212H,213H,213H,214H,214H,215H,215H,216H,216H,217H,217H,218H,218H,219H,219H,220H,220H,221H,221H,222H,222H,223H,223H,224H,224H,225H,225H,226H,226H,227H,227H,228H,228H,229H,229H,230H,230H,231H,231H,232H,232H,233H,233H,234H,234H,235H,235H,236H,236H,237H,237H,238H,238H,239H,239H,240H,240H,241H,241H,242H,242H,243H,243H,244H,244H,245H,245H,246H,246H,247H,247H,248H,248H,249H,249H,250H,250H,251H,251H,252H,252H,253H,253H,254H,254H,255H,255H,256H,256H,257H,257H,258H,258H,259H,259H,260H,260H,261H,261H,262H,262H,263H,263H,264H,264H,265H,265H,266H,266H,267H,267H,268H,268H,269H,269H,270H,270H,271H,271H,272H,272H,273H,273H,274H,274H,275H,275H,276H,276H,277H,277H,278H,278H,279H,279H,280H,280H,281H,281H,282H,282H,283H,283H,284H,284H,285H,285H,286H,286H,287H,287H,288H,288H,289H,289H,290H,290H,291H,291H,292H,292H,293H,293H,294H,294H,295H,295H,296H,296H,297H,297H,298H,298H,299H,299H,200H,200H,201H,201H,202H,202H,203H,203H,204H,204H,205H,205H,206H,206H,207H,207H,208H,208H,209H,209H,210H,210H,211H,211H,212H,212H,213H,213H,214H,214H,215H,215H,216H,216H,217H,217H,218H,218H,219H,219H,220H,220H,221H,221H,222H,222H,223H,223H,224H,224H,225H,225H,226H,226H,227H,227H,228H,228H,229H,229H,230H,230H,231H,231H,232H,232H,233H,233H,234H,234H,235H,235H,236H,236H,237H,237H,238H,238H,239H,239H,240H,240H,241H,241H,242H,242H,243H,243H,244H,244H,245H,245H,246H,246H,247H,247H,248H,248H,249H,249H,250H,250H,251H,251H,252H,252H,253H,253H,254H,254H,255H,255H,256H,256H,257H,257H,258H,258H,259H,259H,260H,260H,261H,261H,262H,262H,263H,263H,264H,264H,265H,265H,266H,266H,267H,267H,268H,268H,269H,269H,270H,270H,271H,271H,272H,272H,273H,273H,274H,274H,275H,275H,276H,276H,277H,277H,278H,278H,279H,279H,280H,280H,281H,281H,282H,282H,283H,283H,284H,284H,285H,285H,286H,286H,287H,287H,288H,288H,289H,289H,290H,290H,291H,291H,292H,292H,293H,293H,294H,294H,295H,295H,296H,296H,297H,297H,298H,298H,299H,299H,200H,200H,201H,201H,202H,202H,203H,203H,204H,204H,205H,205H,206H,206H,207H,207H,208H,208H,209H,209H,210H,210H,211H,211H,212H,212H,213H,213H,214H,214H,215H,215H,216H,216H,217H,217H,218H,218H,219H,219H,220H,220H,221H,221H,222H,222H,223H,223H,224H,224H,225H,225H,226H,226H,227H,227H,228H,228H,229H,229H,230H,230H,231H,231H,232H,232H,233H,233H,234H,234H,235H,235H,236H,236H,237H,237H,238H,238H,239H,239H,240H,240H,241H,241H,242H,242H,243H,243H,244H,244H,245H,245H,246H,246H,247H,247H,248H,248H,249H,249H,250H,250H,251H,251H,252H,252H,253H,253H,254H,254H,255H,255H,256H,256H,257H,257H,258H,258H,259H,259H,260H,260H,261H,261H,262H,262H,263H,263H,264H,264H,265H,265H,266H,266H,267H,267H,268H,268H,269H,269H,270H,270H,271H,271H,272H,272H,273H,273H,274H,274H,275H,275H,276H,276H,277H,277H,278H,278H,279H,279H,280H,280H,281H,281H,282H,282H,283H,283H,284H,284H,285H,285H,286H,286H,287H,287H,288H,288H,289H,289H,290H,290H,291H,291H,292H,292H,293H,293H,294H,294H,295H,295H,296H,296H,297H,297H,298H,298H,299H,299H,200H,200H,201H,201H,202H,202H,203H,203H,204H,204H,205H,205H,206H,206H,207H,207H,208H,208H,209H,209H,210H,210H,211H,211H,212H,212H,213H,213H,214H,214H,215H,215H,216H,216H,217H,217H,218H,218H,219H,219H,220H,220H,221H,221H,222H,222H,223H,223H,22												

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Figures

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0 250 500
Feet

Legend

Operable Units

- OU1 (Green)
- OU3 (Yellow)
- OU6 (Black)

SW SD 0624Survey

- Sediment Sample Site
- Surface Water/Sediment Sample Site
- ◆ Monitoring Well

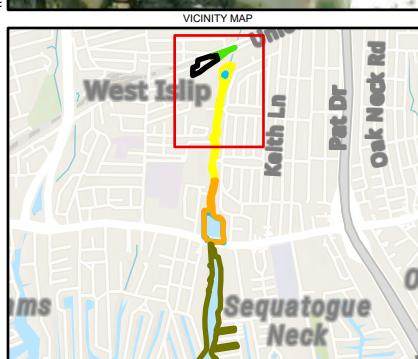
Figure 1
Monitoring Locations
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 8/2/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri



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Legend

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

Figure 2
Shallow Potentiometric Surface Contours

June 2024

Dzus Fastener Company, Inc.
West Islip, New York

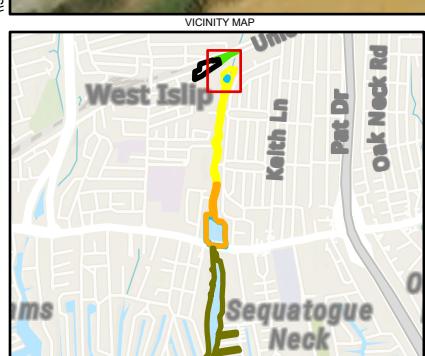
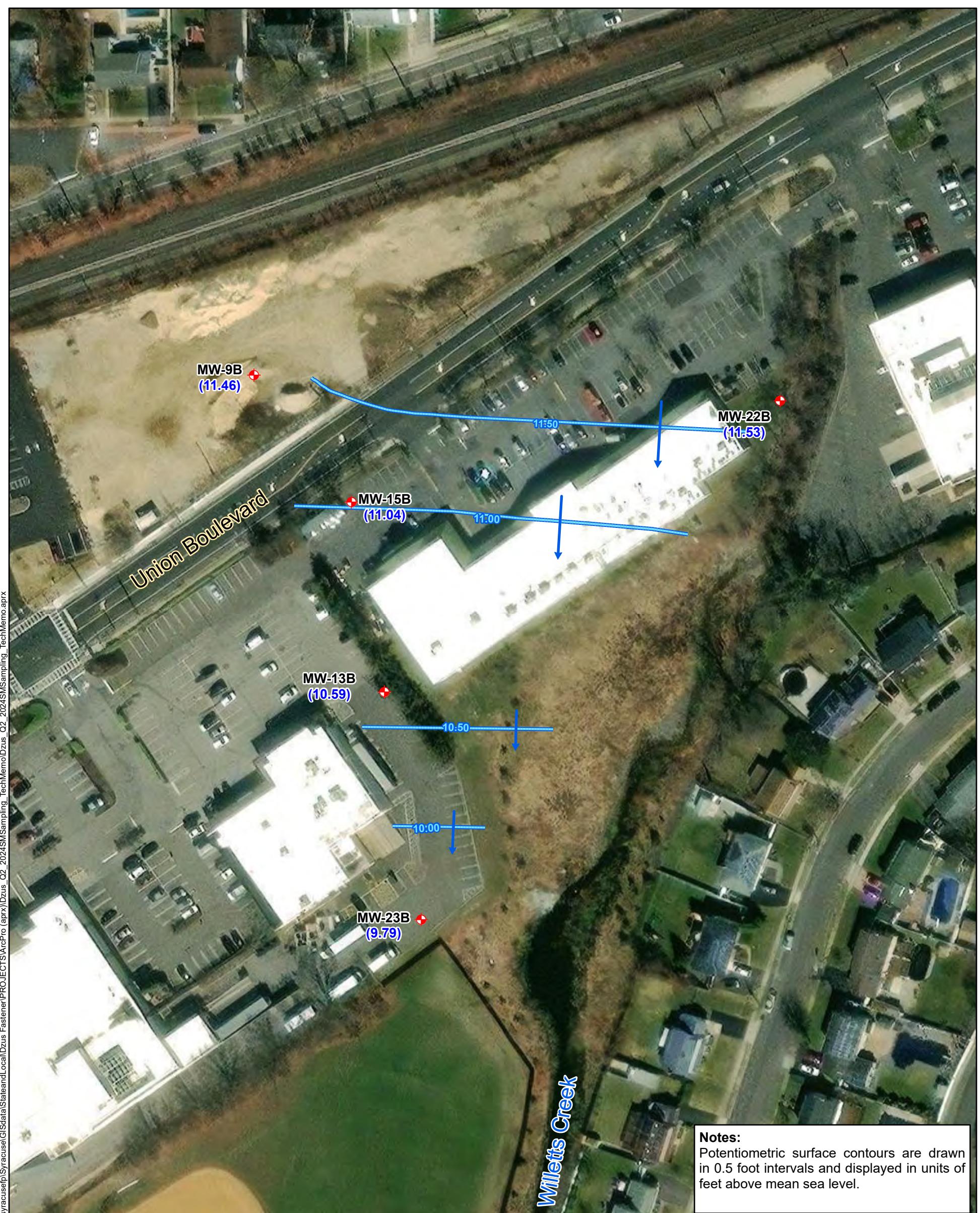
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Feet



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



- Legend**
- ~~~~~ Groundwater Potentiometric Contours
 - Groundwater Flow Direction
 - Monitoring Well

Figure 3
Deep Potentiometric Surface Contours
June 2024

Dzus Fastener Company, Inc.
West Islip, New York

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

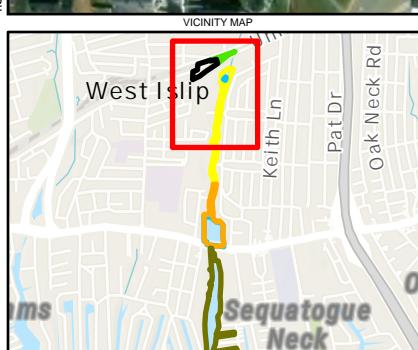
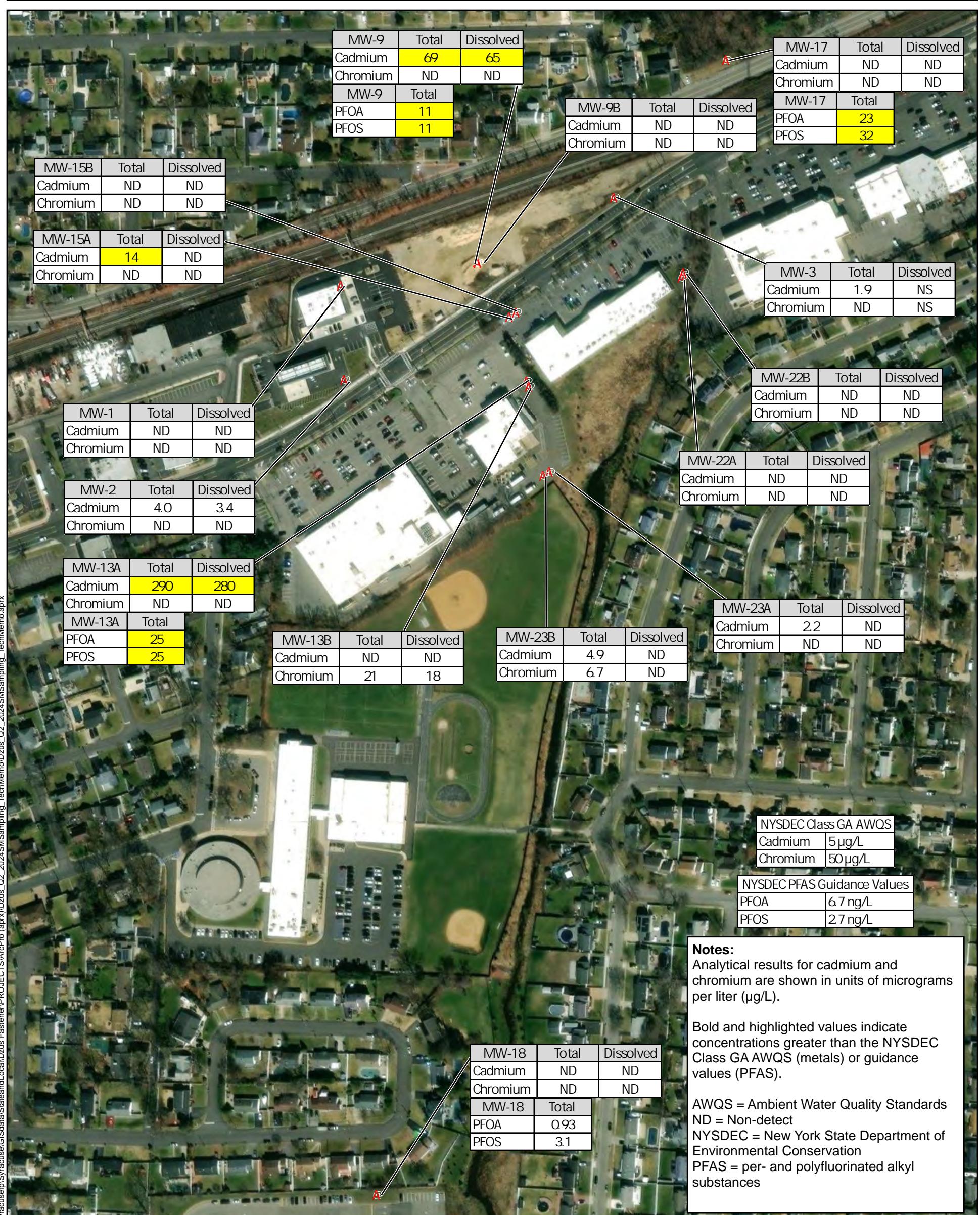
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Feet

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Legend
A Monitoring Well

Figure 4
Groundwater Analytical Results
June 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 8/9/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

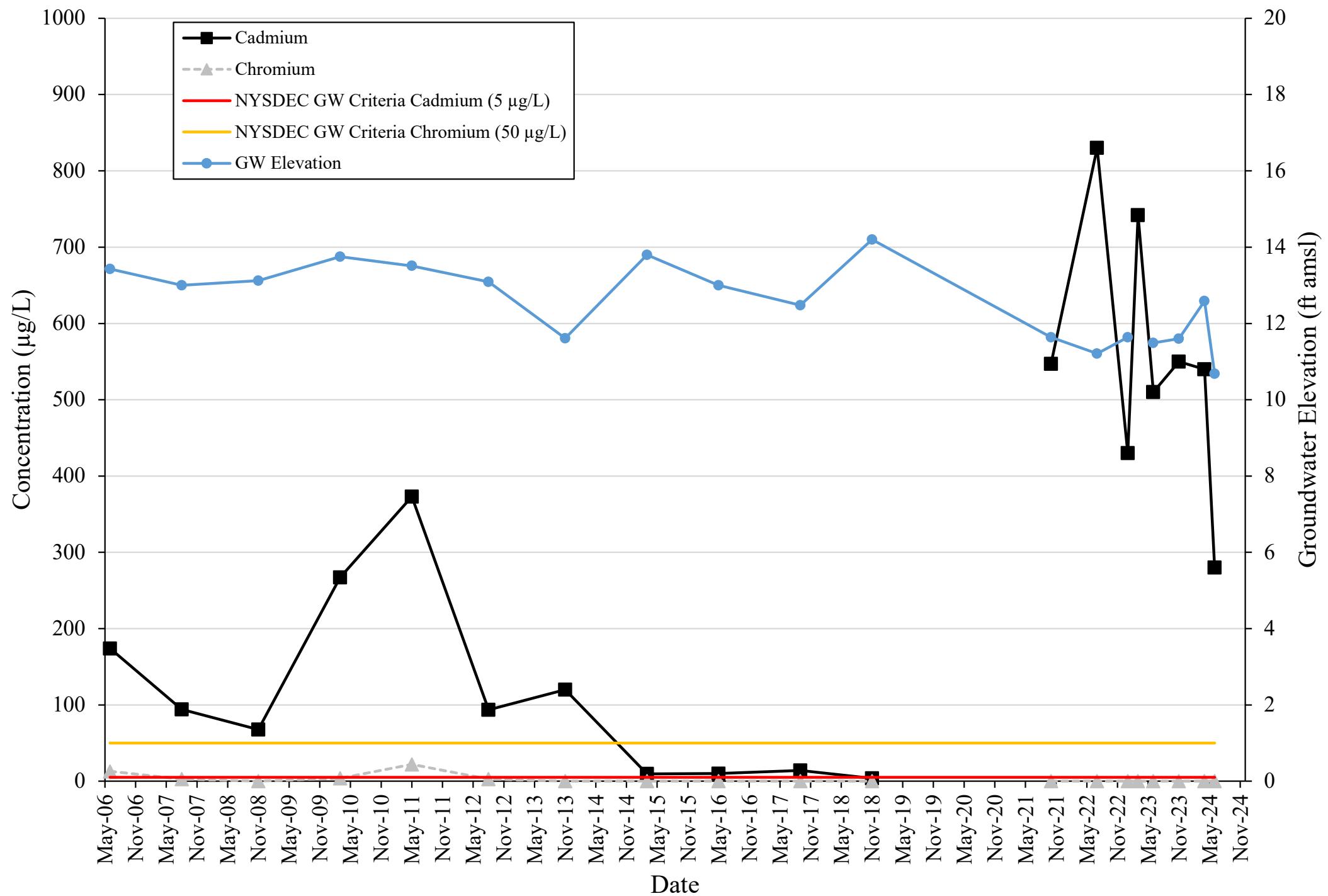
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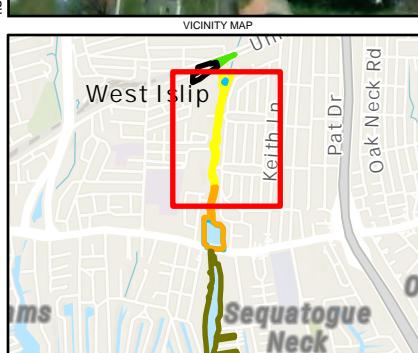
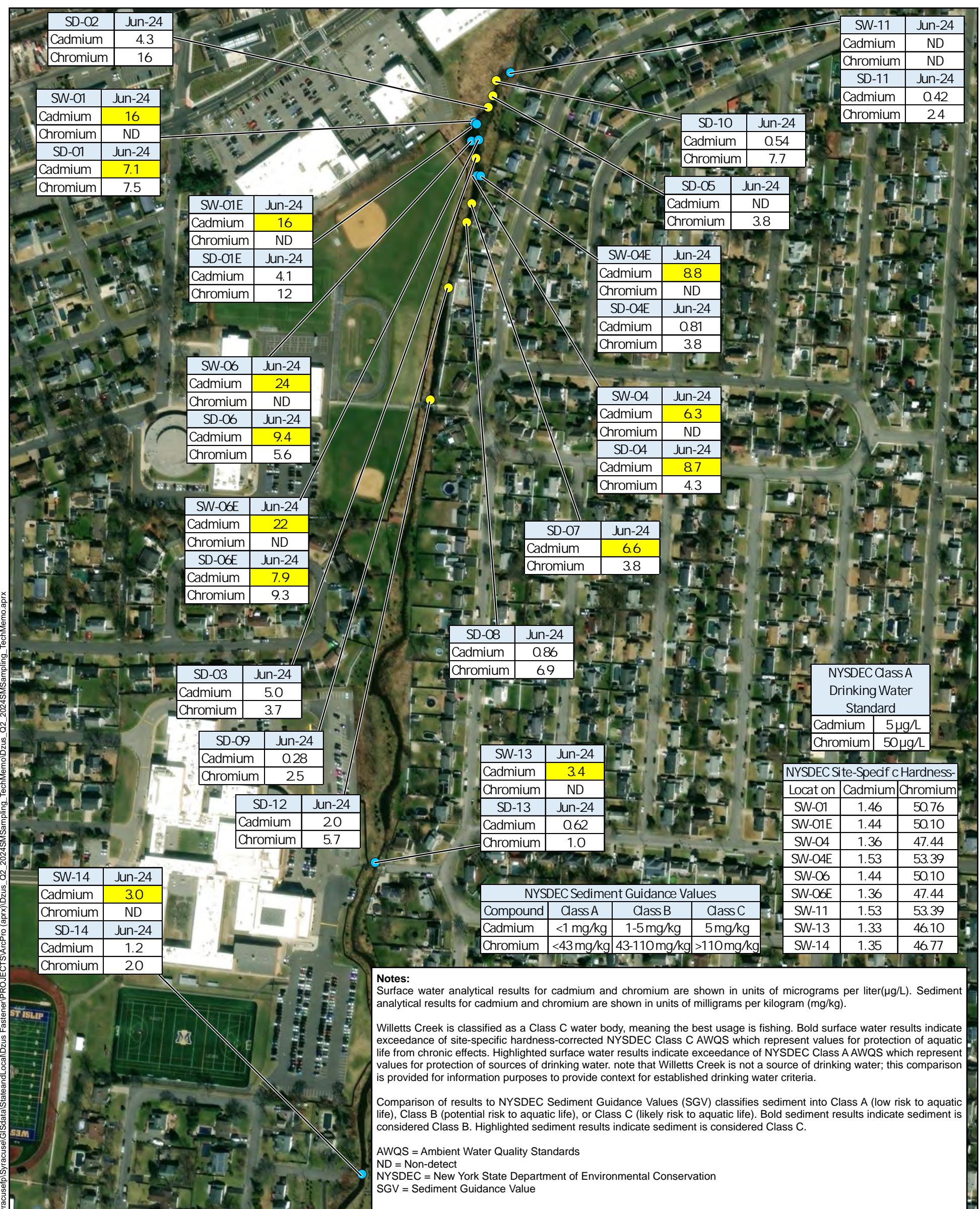
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Figure 5
MW-13A: Metal Concentrations Over Time (June 2006 - June 2024)



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Legend

- Yellow circle: Sediment Sample Location
- Blue circle: Surface Water/Sediment Sample Location

Figure 6
Surface Water and Sediment Analytical Results
June 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 8/9/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

0 150 300
Feet



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Attachment A

Field Book Log

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D2US FASTNER (152033)

Weather AM: 73°F, Sunny

Weather PM: 78°F, Sunny

Personnel: M. Boyle, C. Casey, L. Bachman-Lowe

Objective: Q2 SM Sampling

0628: EA onsite, Crossing ice
0652: Tailgate H/S Meeting, Calibrate
horizon

0700: Remove Standing Water atop 13A/B

0730: Start Purge @ MW-13A

0805: Start Purge @ MW-09

0828: Sample MW-13 For TAL Metals
(Total + Diss.) and PFAS / SPIN w/DUP

0900: Sample MW-09 For TAL Metals
(Total + Dissolved) and PFAS / SPIN
w/ MS / MSD

0926: Start Purge @ MW-13B

0953: Start Purge @ MW-09B

1018: Sample MW-09B For TAL Metals
(Total + Diss.).

1020: Sample MW-13B For TAL Metals
(Total + Diss.)

1100: MOS to 4 IVY Ct.

1115: Sample SW-14 For TAL Metals
(Total + Diss.) + PFAS

Sample SD-14 For TAL Metals (Total + Diss.)

06/17/24

D2US FASTNER (152033)

6/17/24

1125: MOS to SW / SD 13 (West ISIP HS)

1150: Sample SW / SD 13 For TAL Metals
(Total + Diss.) + PFAS (MATT B)

1200: MOS to Captain Plaza

1210: MOS to SD-12 location

1245: Sample SD-12 For TAL Metals
(Total + Dissolved)

1320: Sample SD-09 For TAL Metals
(Total + Diss.)

1325: Sample SD-08 For TAL Metals
(Total + Diss.)

1330: Sample SD-07 For TAL Metals
(Total + Diss.)

1340: Sample SW-04 For TAL Metals
(Total + Diss.)

1350: Sample SW-04E For TAL Metals
(Total + Diss.)

1405: Sample SD-03 For TAL Metals
(Total + Diss.)

1420: Sample SW-06 For TAL Metals
(Total + Dissolved)

1425: Sample SW-06E For TAL Metals
(Total + Diss.)

1440: Sample SW-01 For TAL Metals
(Total + Dissolved) + PFAS / SPIN w/ FD-01

1455: Sample SW-01E For TAL Metals (Total + Diss.)

4 DZUS

FASTER (152033)

- 1505: Sample SD-02 for TAL Metals
(Tot + Diss)
6/17/24
- 1510: Sample SD-05 for TAL Metals
(Tot + Diss.)
- 1515: Sample SD-10 for TAL Metals
(Tot + Diss.)
- 1530: Sample SW-11 for TAL Metals
(Tot + Diss.) + PFAS / Split w/MW/HS
- 1600: John Legutto offsite
- 1615: EA Pack up, MW to get ice
- 1630: EA offsite

6/17/24



DZUS FASTER (152033)

6/18/24⁵

Weather AM: 75°F, Sunny
Weather PM:

Personnel: M. Boyle, L. Bachmann-Low, L. Casper
Objective: DZUS QZ SM Sampling

- 0715: EA onsite, Calibrate Horiba
Tailgate H + S Metring
- 0730: MW to MW-15A (B) locations
- 0735: Start Purge @ MW-15A
- 0800: Start Purge @ MW-15B
- 0830: Sample MW-~~15A~~^{15B} for TAL Metals
(Tot + Diss.)
- 0835: Sample MW-15A for TAL Metals
(Tot + Diss.)
- 0851: MW to MW-22A (B) locations
- 0904: Start Purge @ MW-22B
- 0910: Start Purge @ MW-22A
- 0946: Sample MW-22B for TAL Metals
(Tot + Diss.)
- 0955: Sample MW-22A for TAL Metals
(Tot + Diss.)
- 1017: Start Purge @ MW-23B
- 1020: Start Purge @ MW-23A
- 1050: Sample MW-23A for TAL Metals
(Tot + Diss.)
- 1055: Sample MW-23B for TAL Metals
(Tot + Diss.)

Rain in the Rain

6 DZUS FASTNET (152033)

6/18/24

- 1135: Start Purge @ MW-1
1220: Sample MW-1 for TAL Metals
(Tot + DISS.)
1235: Start purge @ MW-2
1310: Sample MW-2 for TAL Metals
(Tot + DISS.)
1320: Start Purge @ MW-3
1415: Sample MW-3 for TAL Metals
(Tot + DISS.)
1430: MOS to MW-17 location
1450: Start Purge @ MW-17
1540: Sample MW-17 for TAL Metals
(Tot + DISS) and PFAS
1550: MOS to MW-18 location
1611: Start Purge @ MW-18
1630: Complete SLUG tests
1630: Sample Soil / GW IDW
1653: Sample MW-18 for TAL Metals
(DISS+Tot) and PFAS
700: Pack Vehicles, Grab Ice for Samples
705: EA Offsite

TerPR

06/18/2024

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Attachment B

Chain-of-Custody

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Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: NYS DEC Consultant: EA Engineering
 Consultant Address: 333 W. Washington St. Syracuse, NY 13202
 Consultant Phone:
 Callout Project Name: DEUS Fastener
 Project Location: West Islip, NY
 Callout Number: 151998
 Site/Spill Number: 152033
 Project Manager: Hilary Williams
 Pace Analytical Quote Name/Number:
 Invoice Recipient:
 Sampled By: Lincoln Backman-Lowe

CHAIN OF CUSTODY RECORD (New York)

Requested Turnaround Time

DEC Standard 30-calendar day

Due Date:

Rush (Prior Approval Required)

1-Day 2-Day 3-Day
 4-Day 5-Day 10-Day

Data Delivery

Format: PDF EXCEL

Other: NYSDEC EQuIS EDD

CLP Like (Level 4) Data Pkg Required:

Email To: hilary.williams@ezest.com

Fax To #:

1	3	1		# of Containers
N	I	N		2 Preservation Code
P	P	P		3 Container Code

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

8260: DER TCL / Oxygenates / CP-31	8270: DER TCL / CP-51	1,4-Dioxane SIM 8082 PCBs	8081 Pesticide 8151 Herbicide	TCLP RCRA & Metals	PFAS 1633 PFAS 537 ID	TAL Dissolved Metals
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

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)

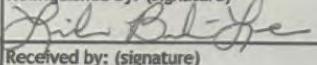
³ Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	'Matrix Code	Conc Code
152033-SM-MW-1-061824	6/18	12:20		X	GW		
152033-SM-MW-2-061824	6/18	13:10		X	GW		
152033-SM-MW-3-061824	6/18	14:15		X	GW		
152033-SM-MW-9-061724	6/17	09:00		X	GW		
152033-SM-MW-9B-061724	6/17	10:18		X	GW		
152033-SM-MW-13A-061724	6/17	08:28		X	GW		
152033-SM-MW-13B-061724	6/17	10:20		X	GW		
152033-SM-MW-15A-061824	6/18	08:35		X	GW		
152033-SM-MW-15B-061824	6/18	08:30		X	GW		
152033-SM-MW-17-061824	6/18	15:40		X	GW		

Comments: *Additional volume for 152033-SM-MW-9-061724 sample included for MS/MSD *

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Program & Regulatory Information				Deliverables
 6/19/24	15:15	AWQ STDs	NY TOGS	Enhanced Data Package		
Received by: (signature)	Date/Time:	<input type="checkbox"/> NYC Sewer Discharge	<input checked="" type="checkbox"/> NY CP-51	NYSDEC EQuIS EDD		
Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> Part 360 GW (Landfill)	EQuIS (Standard) EDD			
Received by: (signature)	Date/Time:	<input type="checkbox"/> NY Restricted Use	NY Regulatory EDD			
Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> NY Unrestricted Use	NY Regs Hits-Only EDD			
Received by: (signature)	Date/Time:	<input type="checkbox"/> NY Part 375	Other:	NELAC and AIHA-LAP, LLC Accredited		
Relinquished by: (signature)	Date/Time:	Project Entity				
Received by: (signature)	Date/Time:	<input type="checkbox"/> Government	Municipality	<input type="checkbox"/> MWRA	Other	
		<input type="checkbox"/> Federal	21 J	<input type="checkbox"/> WRTA	<input type="checkbox"/> Chromatogram	
		<input type="checkbox"/> City	Brownfield	<input type="checkbox"/> School	<input type="checkbox"/> AIHA-LAP, LLC	
				<input type="checkbox"/> MBTA	<input type="checkbox"/> Non Soxhlet	
					PCB ONLY	
					<input type="checkbox"/> Soxhlet	
					<input type="checkbox"/> Non Soxhlet	



Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

<https://www.pacelabs.com/>

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Page 2 of 5

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: NYS DEC Consultant: EA Engineering
Consultant Address: 333 W. Washington St. Syracuse, NY 13202

Consultant Phone:

Callout Project Name: Dzus Fastener

Project Location: West Islip, NY

Callout Number: 151998

Site/Spill Number: 152033

Project Manager: Hilary Williams

Pace Analytical Quote Name/Number:

Invoice Recipient:

Sampled By: Lincoln Backman-Lowe

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260c DER TCL / Organics / CP-51	8270c DER TCL / CP-51	1,4-Dioxane SW	8082 PCPs	8151 Herbicide	TCLP RCRA 8 Metals	PFAS 537	PFAS 1633	PFAL Dissolved Metals
152033-SM-MW-18-061824	6/18	16:53		X		GW				X	X					
152033-SM-MW-22A-061824	6/18	09:55		X		GW				X						
152033-SM-MW-22B-061824	6/18	09:46		X		GW				X						
152033-SM-MW-23A-061824	6/18	10:50		X		GW				X						
152033-SM-MW-23B-061824	6/18	10:55		X		GW				X						
152033-SM-MW-FD-01-061724	6/17	—		X		GW				X	X					
152033-SM-FB-01-061724	6/17	1700		X		FB								X		
152033-SM-FB-02-061824	6/18	1700		X		FB								X		
152033-SM-ERQB-061724	6/17	1705		X		RB				X	X					
152033-SM-ERQB-061824	6/18	1705		X		RB								X		

Comments:

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:
	6/19/17 15:15
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information			
<input checked="" type="checkbox"/> AWQ, STOS	<input checked="" type="checkbox"/> NY TOGS		
<input type="checkbox"/> NYC Sewer Discharge	<input type="checkbox"/> NY CP-51		
<input type="checkbox"/> Part 360 GW (Landfill)			
<input type="checkbox"/> NY Restricted Use			
<input type="checkbox"/> NY Unrestricted Use			
<input type="checkbox"/> NY Part 375			
DNR			
DOL/DOH			
NELAP and AIHA-LAP, LLC Accredited			
Project Entity		Other	
<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Municipality	<input type="checkbox"/> Chromatogram	<input type="checkbox"/> PCB ONLY
<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J	<input type="checkbox"/> AIHA-LAP, LLC	<input type="checkbox"/> Soxhlet
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield	<input type="checkbox"/> MBTA	<input type="checkbox"/> Non Soxhlet

of Containers
<input checked="" type="checkbox"/> Preservation Code
<input type="checkbox"/> Container Code
Dissolved Metals Samples

<input checked="" type="checkbox"/> Field Filtered
<input type="checkbox"/> Lab to Filter
Orthophosphate Samples
<input type="checkbox"/> Field Filtered
<input type="checkbox"/> Lab to Filter

¹ Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOIL = 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 = Teflon Bag
O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet



Phone: 413-525-2332
99 Spruce St
East Longmeadow, MA 01028

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: NYS DEC

Consultant: EA Engineering

Consultant Address: 333 W. Washington St. Syracuse, NY 12002

Consultant Phone:

Callout Project Name:

DEUS Fastener

Project Location: West Islip, NY

Callout Number: 151998

Site/Spill Number: 152033

Project Manager: Hilary Williams

Pace Analytical Quote Name/Numbers:

Invoice Recipient:

Sampled By: Lincoln Brickman-Lowe

Pace Analytical Work Order#

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

¹Matrix Code

Conc Code

152033-SM-SD-01-061724

6/17

14:40

X

SOL

152033-SM-SD-02-061724

6/17

15:05

X

SOL

152033-SM-SD-03-061724

6/17

14:05

X

SOL

152033-SM-SD-04-061724

6/17

13:40

X

SOL

152033-SM-SD-05-061724

6/17

15:10

X

SOL

152033-SM-SD-06-061724

6/17

14:20

X

SOL

152033-SM-SD-07-061724

6/17

13:30

X

SOL

152033-SM-SD-08-061724

6/17

13:45

X

SOL

152033-SM-SD-09-061724

6/17

13:20

X

SOL

152033-SM-SD-10-061724

6/17

15:15

X

SOL

Comments:

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

NY TOGS
NY CP-51

Relinquished by: (signature)

Hilary Williams 6/19/24

Date/Time:

15:15

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Project Entity		Regulatory Information		Documentation	
<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Municipality	<input type="checkbox"/> NY TOGS	<input type="checkbox"/> Enhanced Data Package	<input type="checkbox"/> NY Regu Hits-Only EDD	
<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J	<input type="checkbox"/> NY CP-51	<input type="checkbox"/> NYSDEC EQuiS EDD	<input type="checkbox"/> NY Regulatory EDD	
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield	<input type="checkbox"/> NY Part 378	<input type="checkbox"/> EQuiS (Standard) EDD	<input type="checkbox"/> NY Regu Hits-Only EDD	
Other				NELAC and AIHA-LAP, LLC Accredited	

<input type="checkbox"/> Chromatogram	<input type="checkbox"/> PCB ONLY
<input type="checkbox"/> AIHA-LAP, LLC	<input type="checkbox"/> Soxhlet
<input type="checkbox"/> Non Soxhlet	



On Site

- NY Regu Hits-Only EDD
- NY Regulatory EDD
- NY EQuiS (Standard) EDD
- NY CP-51
- NY TOGS

NELAC and AIHA-LAP, LLC Accredited

Page 3 of 5

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)		# of Containers
<input type="checkbox"/> Field Filtered	<input type="checkbox"/> Lab to Filter	I
<input type="checkbox"/> Orthophosphate Samples	<input type="checkbox"/> Lab to Filter	I
<input type="checkbox"/> Field Filtered	<input type="checkbox"/> Lab to Filter	A
<input type="checkbox"/> Orthophosphate Samples	<input type="checkbox"/> Lab to Filter	P

¹ Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

² Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)



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Doc # 380 Rev 1_03242017

Page 4 of 5

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: NYS DEC Consultant: FA Engineering

Consultant Address: 333 W. Washington St. Syracuse, NY 13202

Consultant Phone:

Callout Project Name: Deus Fzstener

Project Location: West Islip, NY

Callout Number: 151998

Site/Spill Number: 152033

Project Manager: Hilary Williams

Pace Analytical Quote Name/Number:

Invoice Recipient:

Sampled By: Lincoln Beckman-Lowe

CHAIN OF CUSTODY RECORD (New York)

Requested Turnaround Time

DEC Standard 30-calendar day

Due Date:

Rush (Prior Approval Required)

1-Day 2-Day 3-Day
4-Day 5-Day 10-Day

Data Delivery

Format: PDF EXCEL

Other: NYDEC EQuIS EDD

CLP Like (Level 4) Data Pkg Required:

Email To: hwilliams@east.com

Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
152033-SM-SD-11-061724	6/17 15:30	X	SOL				
152033-SM-SD-12-061724	6/17 12:45	X	SOL				
152033-SM-SD-13-061724	6/17 11:50	X	SOL				
152033-SM-SD-14-061724	6/17 11:15	X	SOL				
152033-SM-SD-FD-061724	6/17 —	X	SOL				
152033-SM-SD-01E-061724	6/17 14:55	X	SOL				
152033-SM-SD-04E-061724	6/17 13:50	X	SOL				
152033-SM-SD-06E-061724	6/17 14:25	X	SOL				
152033-SM-SW-01-061724	6/17 14:40	X SW					
152033-SM-SW-01E-061724	6/17 14:55	X SW					

Comments:

SW = surface water

*Additional volume for 152033-SM-SD-14-061724 sample included for MS/MSD *

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time:	Permit & Regulatory Information				Delivery Codes	
		15:15	<input checked="" type="checkbox"/> AWQ STDS <input type="checkbox"/> NY TOGS <input type="checkbox"/> NYC Sewer Discharge <input type="checkbox"/> NY CP-51 <input type="checkbox"/> Part 360 GW (Landfill) <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NY Part 379				<input type="checkbox"/> Enhanced Data Package <input checked="" type="checkbox"/> NYSDEC EQuIS EDD <input type="checkbox"/> EQuIS (Standard) EDD <input type="checkbox"/> NY Regulatory EDD <input type="checkbox"/> NY Regs Hits-Only EDD	
Received by: (signature)		Date/Time:					<input type="checkbox"/> Others	
Relinquished by: (signature)		Date/Time:	<input type="checkbox"/> Other				<input type="checkbox"/> NELAC and AIHA-LAP, LLC Accredited	
Received by: (signature)		Date/Time:	<input checked="" type="checkbox"/> Project Entity <input type="checkbox"/> Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> WRTA <input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School <input type="checkbox"/> Chromatogram <input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA <input type="checkbox"/> AIHA-LAP, LLC				<input type="checkbox"/> Other <input type="checkbox"/> Chromatogram <input type="checkbox"/> AIHA-LAP, LLC	
Relinquished by: (signature)		Date/Time:	<input type="checkbox"/> PCB ONLY <input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet					
Received by: (signature)		Date/Time:						

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Attachment C

Field Forms

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: 7-Eleven	Well Condition: Good	Weather: 80's, sunny
Sounding Method: Kero	Gauge Date: 4/18/24 Gauge Time:	Measurement Ref: TUL
Stick Up/Down (ft): 0.3	PID Headspace Reading: ~	Well Diameter (in): 2"

Purge Date:	06/18/2024	Purge Time:	11:35
Purge Method:	Low flow, Peristaltic	Field Technician:	M. Boyle

Well Volume

A. Well Depth (ft): 15.3	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 9.52	E. Well Volume (gal) (C*D): 0.942	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 5.78	F. Three Well Volumes (gal) (E*3): 2.83	Pump Intake Depth: 10.3'

Water Quality Parameters

Total Quantity of Water Removed (gal): 11.25 L

Samplers: M. BOYLE

Sampling Date: 9 / 18 / 2024

Sampling Time: 12:20

Split Sample With:

Sample Type: Gums

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: 7-Eleven	Well Condition: Good	Weather: 80's, Sunny
Sounding Method: Heron WLM	Gauge Date: 6/18/2024 Gauge Time: -	Measurement Ref: TOC
Stick Up/Down (ft): 0.3	PID Headspace Reading: -	Well Diameter (in): 2"

Purge Date:	6/18/24	Purge Time:	1235
Purge Method:	Low flow, Pennstatefric	Field Technician:	M. Boyle

Well Volume

A. Well Depth (ft): 15.3	D. Well Volume (gal/ft): 6,163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 8.05	E. Well Volume (gal) (C*D): 1,18	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 7.25	F. Three Well Volumes (gal) (E*3): 3.55	Pump Intake Depth: 10.3'

Water Quality Parameters

Total Quantity of Water Removed (gal): 8.75 L Sampling Time: 1310
Samplers: M. BISON / L. Casy Split Sample With: —
Sampling Date: 06/18/2024 Sample Type: Gross

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: M4-3	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Island Associates	Well Condition: New	Weather: 80's, Sunny
Sounding Method: Heron WLM	Gauge Date: 6/18/24	Measurement Ref: TOC
Stick Up/Down (ft): 0.3	PID Headspace Reading: _____	Well Diameter (in): 2"

Purge Date: 6/18/2024	Purge Time: 1320 1320
Purge Method: Low Flow, Peristaltic	Field Technician: M. BOYLE

Well Volume		
A. Well Depth (ft): 13.0	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 5.28	E. Well Volume (gal) (C*D): 1.38	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 9.72	F. Three Well Volumes (gal) (E*3): 4.15	Pump Intake Depth: 10.0'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1320	9.10	6.326	273	1.22	22.58	41	5.28	0.25	0.0
1325	9.14	6.330	31.2	6.65	23.53	9	5.28	0.25	1.025
1330	9.16	6.330	19.7	0.62	23.40	0	5.28	0.25	2.50
1335	9.26	6.309	71.2	0.96	22.81	-44	5.28	0.25	3.75
1340	9.27	6.308	67.4	0.71	22.70	-55	5.28	0.25	5.0
1345			Clean	Hornba					
1350	9.14	6.304	53.8	1.24	22.86	-49	5.28	0.25	6.25
1355	9.25	6.304	49.8	0.63	22.85	-89	5.28	0.25	7.5
1400	9.26	6.304	41.7	0.52	22.36	-91	5.28	0.25	8.75
1405	9.27	6.303	35.2	0.92	22.38	-99	5.28	0.25	10.0
1410	9.28	6.302	34.7	0.43	22.34	-162	5.28	0.25	11.25
1415	9.29	6.302	34.3	6.44	22.31	-104	5.28	0.25	12.50

Total Quantity of Water Removed (gal): 12.50 L	Sampling Time: 1415
Samplers: M. Boyle / L. Basay	Split Sample With: -
Sampling Date: 6/18/24	Sample Type: brine

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



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-09	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Island Associates	Well Condition: New	Weather: 70's, Sunny
Sounding Method: Tethered WLM	Gauge Date: 06/17/2024	Measurement Ref: TUC
Stick Up/Down (ft): FLUSH	PID Headspace Reading: —	Well Diameter (in): 2"
Purge Date: 06/17/2024	Purge Time: 0805	
Purge Method: PERISTALTIC PUMP	Field Technician: M. Boyle	

Well Volume		
A. Well Depth (ft): 11.5	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 9.1	E. Well Volume (gal) (C*D): 0.391	Pump Type: PERISTALTIC
C. Liquid Depth (ft) (A-B): 2.4	F. Three Well Volumes (gal) (E*3): 1.17	Pump Intake Depth: 5' from Bottom

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)
0805	6.79	0.466	363	7.85	20.96	286	—	0.25	0.0
0810	6.37	0.453	312	1.97	20.99	297	—	0.25	1.25
0815	6.39	0.449	255	1.91	20.88	306	—	0.25	2.50
0820	6.51	0.449	199	2.12	20.75	305	—	0.25	3.75
0825	6.42	0.466	166	2.34	20.15	311	—	0.25	5.0
0830	6.37	0.441	96.3	2.15	20.90	309	—	0.25	6.25
0835	6.44	0.446	93.2	2.21	20.99	309	—	0.25	7.50
0840	—	—	—	—	—	—	—	—	—
0845	6.87	0.468	14.1	7.68	20.93	181	—	0.25	8.75
0850	6.83	0.462	9.7	1.68	20.67	225	—	0.25	10.0
0855	6.81	0.468	8.8	1.72	20.51	228	—	0.25	11.25
0900	6.83	0.466	9.3	1.69	20.58	228	—	0.25	12.5

Total Quantity of Water Removed (gal): 12.5 L

Samplers: M. Boyle

Sampling Date: 06/17/2024

Sampling Time: 0900

Split Sample With: MS/MSD

Sample Type: Grav

COMMENTS AND OBSERVATIONS: 1

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: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Island Associates	Well Condition: wet	Weather: 70's, sunny
Sounding Method: Heron WLM	Gauge Date: 06/17/2024 Gauge Time:	Measurement Ref: TUC
Stick Up/Down (ft): 09.3	PID Headspace Reading: —	Well Diameter (in): 2"

Purge Date: 06/17/2024	Purge Time: 09:03
Purge Method: Peristaltic	Field Technician: M.Boyce

Well Volume

A. Well Depth (ft): 44.5	D. Well Volume (gal/ft): 6.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 9.76	E. Well Volume (gal) (C*D): 5.66	Pump Type: Pump Model 10
C. Liquid Depth (ft) (A-B): 34.74	F. Three Well Volumes (gal) (E*3): 17.0	Pump Intake Depth: 30.5'

Water Quality Parameters

Total Quantity of Water Removed (gal): 9-35

Sampling Time: 01:48

Samplers:

Split Sample With:

Sampling Date: 01-17-2014

Sample Type: Lungs

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13A	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Parking lot of liquor store	Well Condition: good	Weather: Sunny
Sounding Method: Lever WLM	Gauge Date: Gauge Time:	Measurement Ref: 70 C
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 2 in.

Purge Date: 6/07/24	Purge Time: 0730
Purge Method: Low-flow	Field Technician: L. Casey

Well Volume

A. Well Depth (ft): 10.84 ft.	D. Well Volume (gal/ft): 0.103	Depth/Height of Top of PVC:
B. Depth to Water (ft): 4.10 ft	E. Well Volume (gal) (C*D): 1.09	Pump Type: Prestoatic
C. Liquid Depth (ft) (A-B): 6.69	F. Three Well Volumes (gal) (B*3): 3.27	Pump Intake Depth: 8.00 ft.

Water Quality Parameters

Total Quantity of Water Removed (gal):

Sampling Time: 0628

Samplers:

Split Sample With:

Sampling Date:

Sample Type: fecal

COMMENTS AND OBSERVATIONS:

Well ganged after sample due to PPAS

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13B	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Parking lot next to liquor store	Well Condition: good	Weather: Sunny
Sounding Method: Heron w/m	Gauge Date: 06/17/24	Measurement Ref: TOC
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 2 in

Purge Date: 6/17/2024	Purge Time: 0926
Purge Method: low-scan	Field Technician: L. Casey

Well Volume

A. Well Depth (ft):	44.25	D. Well Volume (gal/ft):	0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft):	4.05 ft	E. Well Volume (gal) (C*D):	6.55	Pump Type: Residential
C. Liquid Depth (ft) (A-B):	40.2	F. Three Well Volumes (gal) (E*3):	19.66	Pump Intake Depth: 38.25 ft

Water Quality Parameters

Total Quantity of Water Removed (gal):

Sampling Time: 1020

Samplers:

Split Sample With:

Sampling Date: 6/17/24

Sample Type: Cervical

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV
				DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well ID: <u>MW-15A</u>	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: <u>front of ACE Hardware</u>	Well Condition: <u>good</u>	Weather: <u>Sunny</u>
Sounding Method: <u>Heron w/lm</u>	Gauge Date: <u>6/16/24</u> Gauge Time:	Measurement Ref: <u>TO C</u>
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): <u>3"</u>

Purge Date:	06/18/24	Purge Time:	0753
Purge Method:	low-flow	Field Technician:	L. Casey

Well Volume

A. Well Depth (ft): 28.82 ft.	D. Well Volume (gal/ft): 3.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 6.78 ft.	E. Well Volume (gal) (C*D): 3.59	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 22.04 ft.	F. Three Well Volumes (gal) (E*3): 10.78	Pump Intake Depth: 23.82 ft.

Water Quality Parameters

Total Quantity of Water Removed (gal): 364

Sampling Time: 0835

Samplers: 1, 5, 6, 7

Split Sample With:

Sampling Date: 06/18/2014

Sample Type: Gas

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW - 1JB	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Ace Hardware	Well Condition: OK	Weather: 70's, Sunny
Sounding Method: Heron wlm	Gauge Date: 01/18/24	Measurement Ref: TUC
	Gauge Time:	
Stick Up/Down (ft): 0..3	PID Headspace Reading:	Well Diameter (in): 2"

Purge Date: 06/18/2024	Purge Time: 0800
Purge Method: Purge/Start/C	Field Technician: M. Boyle

Well Volume

A. Well Depth (ft): 44.25	D. Well Volume (gal/ft): 6,163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 6.80	E. Well Volume (gal) (C*D): 6,163	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 37.45	F. Three Well Volumes (gal) (E*3): 18,489	Pump Intake Depth: 39.25'

Water Quality Parameters

Total Quantity of Water Removed (gal) 1-5 L

Samplers: M, B, Y, G

Sampling Date: 06/18/2024

Sampling Time: 0830

Split Sample With:

Sample Type: Gras

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-17	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: W. Islip Blvd.	Well Condition: OK	Weather: 80's, sunny
Sounding Method: Heron w/m	Gauge Date: 6/18/24	Measurement Ref: TOC
	Gauge Time:	
Stick Up/Down (ft): 3.0 ft	PID Headspace Reading: ~	Well Diameter (in): 2"

Purge Date:	6/18/24	Purge Time:	1450
Purge Method:	Low Flow, Peristaltic	Field Technician:	M. Boyle

Well Volume

A. Well Depth (ft): 16.0	D. Well Volume (gal/ft): 5163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 8.24	E. Well Volume (gal) (C*D): 1.26	Pump Type: Pennystg HFC
C. Liquid Depth (ft) (A-B): 7.76	F. Three Well Volumes (gal) (E*3): 3.79	Pump Intake Depth: 11.0

Water Quality Parameters

Total Quantity of Water Removed (gall) 12.50 L
Samplers: M. B. Oyle, L. C. Suy
Sampling Date: 1/18/2014

Sampling Time: 1540
Split Sample With: —
Sample Type: 6ca5

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-1B	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: West Islip HS	Well Condition: good	Weather: Sunny
Sounding Method: Heron WLM	Gauge Date: Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 2 in

Purge Date: 06/18/24	Purge Time: 16:11
Purge Method: Low-Flow	Field Technician: L Casey

Well Volume

A. Well Depth (ft):	13.52 ft.	D. Well Volume (gal/ft):	0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft):	5.92	E. Well Volume (gal) (C*D):	1.24	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	7.60	F. Three Well Volumes (gal) (E*3):	3.71	Pump Intake Depth: 10 ft.

Water Quality Parameters

20 (653)

Total Quantity of Water Removed (gal):

Sampling Time:

Samplers: L. Clegg / M. Freyler

Split Sample With:

Sampling Date: 06/19/2021

Exhibit

COMMENTS AND OBSERVATIONS:

Volume of Water In Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.853	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW - 22A	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Adjacent to laundry room	Well Condition: Good	Weather: 76°F, Sunny
Sounding Method: Kerowin	Gauge Date: 06/18/2024	Measurement Ref: TUV
Stick Up/Down (ft): 0.3	Gauge Time:	Well Diameter (in): ~7"
	PID Headspace Reading: ~	

Purge Date: 06/18/2024	Purge Time: 0910
Purge Method: Low flow, peristaltic	Field Technician: M. Boyle

Well Volume

A. Well Depth (ft): <u>14.4</u>	D. Well Volume (gal/ft): <u>0.163</u>	Depth/Height of Top of PVC: <u>0.3</u>
B. Depth to Water (ft): <u>7.44</u>	E. Well Volume (gal) (C^*D): <u>1.13</u>	Pump Type: <u>PENNSYLVANIA</u>
C. Liquid Depth (ft) (A-B): <u>10.96</u>	F. Three Well Volumes (gal) (E^3): <u>3.7</u> <u>18.1</u> <u>(MB)</u>	Pump Intake Depth: <u>39.5</u>

Water Quality Parameters

Total Quantity of Water Removed (gal): 1000

Sampling Time: 0933

Samplers: M-30411

Split Sample With:

Sampling Date: 06/15/2020

Sample Type: Cerv4

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$

0946



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-22B	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Grass next to laundromat	Well Condition: Good	Weather: Sunny
Sounding Method: Heron WLM	Gauge Date: 06/18/24	Measurement Ref: TDR
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 2 in

Purge Date: 06/18/24	Purge Time: 0904
Purge Method: Low - Flow	Field Technician: L. Cusick

Well Volume

A. Well Depth (ft): <u>44.84</u>	D. Well Volume (gal/ft): <u>0.163</u>	Depth/Height of Top of PVC:
B. Depth to Water (ft): <u>7.24</u>	E. Well Volume (gal) (C*D): <u>6.13</u>	Pump Type: <u>Peris</u>
C. Liquid Depth (ft) (A-B): <u>37.60</u>	F. Three Well Volumes (gal) (E*3): <u>18.39</u>	Pump Intake Depth: <u>38.84</u>

Water Quality Parameters

Total Quantity of Water Removed (gal): 2,600

Sampling Time: 0945

Samplers:

Sampling time: Split Sample With

Sampling Date:

C. Las S.
06/19/24

6

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23A	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location: Behind	Well Condition: OK	Weather: 76°F, Sunny
Sounding Method: Heron Wm	Gauge Date: 6/18/24	Measurement Ref: TOC
	Gauge Time:	
Stick Up/Down (ft): 0.3	PID Headspace Reading: -	Well Diameter (in): 2"

Purge Date: 6/18/24	Purge Time: 1020
Purge Method: Low Flow, Peristaltic	Field Technician: M. Boyle

Well Volume

A. Well Depth (ft): <u>14.3'</u>	D. Well Volume (gal/ft): <u>6.163</u>	Depth/Height of Top of PVC: <u>0.3</u>
B. Depth to Water (ft): <u>6.38</u>	E. Well Volume (gal) (C*D): <u>1.29</u>	Pump Type: <u>Perristaltic</u>
C. Liquid Depth (ft) (A-B): <u>7.92</u>	F. Three Well Volumes (gal) (E*3): <u>3.87</u>	Pump Intake Depth: <u>9.3'</u>

Water Quality Parameters

Total Quantity of Water Removed (gal): 7.56 L

Samplers: M. BOYU
Sampling Date: 06/18/2019

Sampling Time: 1050

Split Sample With: _____
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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV
				DO/NTU: $\pm 10\%$



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23B	Personnel: M. Boyle / Lincoln Backman-Lowe	Client: NYSDEC
Location:	Well Condition:	Weather: Jenny
Sounding Method: Heron WLM	Gauge Date: 06/19/14 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 7 in

Purge Date: 06/18/24	Purge Time: 10:17
Purge Method: Low Flow	Field Technician: L. Casey

Well Volume

A. Well Depth (ft):	44.55	D. Well Volume (gal/ft):	0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft):	6.29	E. Well Volume (gal) (C*D):	6.73	Pump Type: <i>peristaltic</i>
C. Liquid Depth (ft) (A-B):	38.26	F. Three Well Volumes (gal) (E*3):	16.71	Pump Intake Depth: <i>38.5 ft.</i>

Water Quality Parameters

Total Quantity of Water Removed (gal):

Samplexam

Samplers:

L. Clegg

Sampling Time:

1055

Split Sample With

13 6

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.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV

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SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. 152033	Client: NYSDEC	Location West Islip, NY
Sampling Location Description:		Sample Location ID: SW-01
Behind Captree Plaza (Eastern stream-bank)		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		Start
Width of Water Body:		Finish
Water Body Location	Willets Creek	DATE
		TIME

	Water Quality Parameters							Surface Conditions:	
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Weather: 78 °F, Sunny	Description of Surface Water
	-----	6.44	0.306	0.0	6.13	21.50	92	Moderate flow of moving water, deeper than most points, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

06/17/24

Sampling Date:

Sampling Time:

14:40

Split Sample With:

FD-01

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	West Islip, NY
Sampling Location Description:			Sample Location ID:
Behind Captree Plaza (Eastern stream-bank)			SW-01E
			Sheet 1 of 1
Sample Method: Peristaltic Pump			Sampling Date/Time
Depth of Water Body:			Start
Width of Water Body:			Finish
Water Body Location		Willets Creek	DATE
			TIME
			TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	78 °F, Sunny
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1455	6.13	0.298	0.0	7.52	20.35	93	Moderate flow of moving water, deeper than most points, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

Sampling Date:

06/17/24

Sampling Time: 1455

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. 152033	Client: NYSDEC	Location West Islip, NY
Project: Dzus	Sampling Location Description:	
Behind Captree Plaza (Willetts Creek)		Sample Location ID: SW-04
		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		
Width of Water Body:		Start
Water Body Location Willetts Creek		DATE
		TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	78 °F, Sunny
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1540	6.18	0.321	0.0	5.98	19.26	80	Moderate flow of moving water, shallow, clear	

Total Quantity of Water Removed (gal):

1340

Samplers:

MB, LBL, LC

Sampling Time:

N/A

Sampling Date:

06/17/24

Split Sample With:

Grab

Sample Type:



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SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. 152033	Client: NYSDEC	Location West Islip, NY
Sampling Location Description:		Sample Location ID: SW-04E
Behind Capree Plaza (Eastern stream-bank)		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		Start
Width of Water Body:		Finish
Water Body Location	Willetts Creek	DATE
		TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	78 °F, Sunny
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1350	6.40	0.285	0.0	11.77	19.36	186	Moderate flow of moving water, shallow, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:	Sampling Time:	1350
Sampling Date:	Split Sample With:	N/A
	Sample Type:	Grab

Samplers:

MB, LBL, LC

Sampling Date:

06/17/24



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EA Science and Technology

SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. 152033	Client: NYSDEC	Location West Islip, NY
Sampling Location Description:		Sample Location ID: SW-06
Behind Captree Plaza (Willetts Creek)		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		Start Finish
Width of Water Body:		DATE DATE
Water Body Location Willetts Creek		TIME TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	78 °F, Sunny
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1420	6.40	0.300	0.0	6.34	20.93	93	Low flow, wider stream-bank body, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

06/17/24

Sampling Date:

Sampling Time: 1420

N/A

Split Sample With:

Grab

Sample Type:



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SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. 152033	Client: NYSDEC	Location West Islip, NY
Sampling Location Description:		Sample Location ID: SW-06E
Behind Captree Plaza (eastern stream-bank)		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		Start Finish
Width of Water Body:		DATE DATE
Water Body Location		TIME TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	78 °F, Sunny
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1425	6.70	0.299	0.0	11.70	20.03	181	Low flow, wider stream-bank body, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

06/17/24

Sampling Date:

Sampling Time:

1425

Split Sample With:

N/A

Sample Type:

Grab



EA Engineering, P.C. and Its Affiliate
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SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. 152033	Client: NYSDEC	Location West Islip, NY
Sampling Location Description: Behind Captree Plaza		Sample Location ID: SW-11
		Sheet 1 of 1
Sample Method: Peristaltic Pump		Sampling Date/Time
Depth of Water Body:		
Width of Water Body:		Start
Water Body Location		DATE
		TIME

	Water Quality Parameters							Surface Conditions:	
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Weather: 78 °F, Sunny	Description of Surface Water
	1530	6.32	0.302	0.0	6.51	21.33	89	Low flow of moving water, shallow, clear	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

Sampling Date:

06/17/24

Sampling Time:
1530

MS/MSD

Split Sample With:

Grab

Sample Type:



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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 West Islip, NY
Project:	Dzus	
Sampling Location Description:		Sample Location ID: SW-13
Behind Beach St. Middle school		Sheet 1 of 1
Sample Method:	Perristaltic Pump	
Depth of Water Body:	Sampling Date/Time	
Width of Water Body:	Start	Finish
Water Body Location	DATE	DATE
	TIME	TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)		Description of Surface Water
	1150	6.40	0.285	0.0	11.77	19.36	186		Low flow of water, clear, some OM

Total Quantity of Water Removed (gal):

Samplers: MB, LBL, LC
Sampling Date: 06/17/24

Sampling Time: 1150
Split Sample With: N/A
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
Project:	Dzus		
Sampling Location Description:		Sample Location ID:	
		SW-14	
Sheet 1 of 1			
Sample Method: Peristaltic Pump		Sampling Date/Time	
Depth of Water Body:		Start	Finish
Width of Water Body:		DATE	DATE
Water Body Location		TIME	TIME

	Water Quality Parameters							Surface Conditions:	
	Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	
	(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Surface Water	
	1115	6.45	0.294	0.0	11.72	18.97	194	Moderate flow of water, clear,	

Total Quantity of Water Removed (gal):

MB, LBL, LC

Samplers:

06/17/24

Sampling Date:

Sampling Time:

1115

Split Sample With:

MS/MSD

Sample Type:

Grab

Total Quantity of Water Removed (gal):	MB, LBL, LC	Sampling Time:	1115
Samplers:		Split Sample With:	MS/MSD
Sampling Date:	06/17/24	Sample Type:	Grab

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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	-----	152033-SM-SD-01	DUP-01	Dark brown sand, trace silt, some sub-rounded gravel, well graded (WG) Temp: 21.50 °C; pH: 6.44; ORP: 92; Conductivity: 0.306 mS/cm; Turbidity: 0.0 NTU; DO: 6.13 mg/L	
Logged by:		L. Casey		Signature	<u>LC</u>		



EA Engineering, Science,
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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None					
						Sample Collection Equipment/Method	Composite, Designated sampling spoon					
Analyses Total Cadmium and Chromium						Sample Appearance / Description						
6"						Fine brownish tan sand, some gravel, trace silt Temp: 20.35 °C; pH: 6.13; ORP: 93; Conductivity: 0.298 mS/cm; Turbidity: 0.0 NTU; DO: 7.52 mg/L						



EA Engineering, Science,
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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
						Analyses	Total Cadmium and Chromium
						Sample Appearance / Description	
6"	-----	6/17/24	15:05	152033-SM-SD-02	N/A	Well graded brown sand, some sub-rounded gravel, trace silt Temp: 21.25 °C; pH: 6.56; ORP: 104; Conductivity: 0.306 mS/cm; Turbidity: 0.0 NTU; DO: 6.47 mg/L	

Logged by:

L. Casey

Signature



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
						Analyses	Total Cadmium and Chromium
						Sample Appearance / Description	
6"	-----	6/17/24	14:05	152033-SM-SD-03	N/A	Well graded brown sand, some sub-rounded gravel, trace silt Temp: 20.67 °C; pH: 6.48; ORP: 97; Conductivity: 0.289 mS/cm; Turbidity: 0.0 NTU; DO: 7.03 mg/L	

Logged by:

L. Cas

Signature

LC



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	15:40	152033-SM-SD-04	N/A	Fine brown sand, some gravel, some organic matter, trace silt Temp: 19.26 °C; pH: 6.18; ORP: 80; Conductivity: 0.321 mS/cm; Turbidity: 13 NTU; DO: 5.98 mg/L	
Logged by:		L. Casey		Signature	<u>LC</u>		



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	13:50	152033-SM-SD-04E	N/A	Tannish brown f-m sand, some gravel, some organic matter, trace silt Temp: 19.36 °C; pH: 6.40; ORP: 186; Conductivity: 0.285 mS/cm; Turbidity: 0.0 NTU; DO: 11.77 mg/L	

Logged by:

L. Casey

Signature

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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None					
						Sample Collection Equipment/Method	Composite, Designated sampling spoon					
Analyses						Total Cadmium and Chromium						
						Sample Appearance / Description						
6"	-----	6/17/24	15:10	152033-SM-SD-05	N/A	Poorly graded brown sand, some silt Temp: 21.06 °C; pH: 6.28; ORP: 85; Conductivity: 0.209 mS/cm; Turbidity: 8.9 NTU; DO: 7.49 mg/L						
Logged by:		L. Casey		Signature	<u>LC</u>							



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	14:20	152033-SM-SD-06	N/A	Well graded dark brown sand, some silt, trace sub-rounded gravel Temp: 20.93 °C; pH: 6.40; ORP: 93; Conductivity: 0.300 mS/cm; Turbidity: 0.0 NTU; DO: 6.34 mg/L	
Logged by:		L. Casey		Signature	<u>LC</u>		



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None					
						Sample Collection Equipment/Method	Composite, Designated sampling spoon					
Analyses Total Cadmium and Chromium						Sample Appearance / Description						
6"						Fine brown silt and sand, trace gravel Temp: 20.03 °C; pH: 6.70; ORP: 181; Conductivity: 0.299 mS/cm; Turbidity: 0.0 NTU; DO: 11.70 mg/L						



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
						Analyses	Total Cadmium and Chromium
						Sample Appearance / Description	
6"	-----	6/17/24	13:30	152033-SM-SD-07	N/A	Well graded dark brown sand, some silt, trace sub-rounded gravel Temp: 20.81 °C; pH: 6.29; ORP: 84; Conductivity: 0.303 mS/cm; Turbidity: 0.0 NTU; DO: 5.58 mg/L	

Logged by:

L. Casey

Signature

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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	13:25	152033-SM-SD-08	N/A	Fine brown sand, some m-c gravel, trace brown silt Temp: 19.86 °C; pH: 6.06; ORP: 103; Conductivity: 0.325 mS/cm; Turbidity: 0.0 NTU; DO: 7.11 mg/L	

Logged by:

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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	13:20	152033-SM-SD-09	N/A	Fine-coarse tan sand, some f-m gravel, trace tan silt Temp: 20.64 °C; pH: 6.24; ORP: 86; Conductivity: 0.298 mS/cm; Turbidity: 0.0 NTU; DO: 6.04 mg/L	

Logged by:

L. Casey

Signature



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	15:15	152033-SM-SD-10	N/A	Fine brown sand, some large gravel, trace silt Temp: 20.36 °C; pH: 6.58; ORP: 83; Conductivity: 0.341 mS/cm; Turbidity: 0.0 NTU; DO: 6.58 mg/L	
Logged by:		L. Casey		Signature	<u>LC</u>		



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	15:30	152033-SM-SD-11	N/A	Well-graded, loose brown sand, sub-rounded gravel, trace silt Temp: 21.33 °C; pH: 6.32; ORP: 89; Conductivity: 0.302 mS/cm; Turbidity: 0.0 NTU; DO: 6.51 mg/L	
Logged by:		L. Casey		Signature	<u>LC</u>		



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
6"	-----	6/17/24	12:45	152033-SM-SD-12	N/A	Analyses Total Cadmium and Chromium	
						Sample Appearance / Description	
6"	-----	6/17/24	12:45	152033-SM-SD-12	N/A	Brownish-grey fine sand, large gravel Temp: 19.47 °C; pH: 6.62; ORP: 82; Conductivity: 0.415 mS/cm; Turbidity: 0.0 NTU; DO: 8.39 mg/L	

Logged by:

L. Casey

Signature



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and Technology, Inc., PBC

Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	-----	6/17/24	11:50	152033-SM-SD-13	N/A	Coarse, reddish sand, some f-c gravel Temp: 21.17 °C; pH: 6.49; ORP: 54; Conductivity: 0.186 mS/cm; Turbidity: 0.0 NTU; DO: 7.14 mg/L	
Logged by:		L. Casey		Signature		<u>LC</u>	



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Sediment Sampling Log

Site Name	Dzus Fastener Co.	Project No.	152033
Site Location	West Islip, NY	Date/Time	6/17/2024
Page 1 of 1		Field Technician	M. Boyle, L. Backman-Lowe
Surface Conditions: Moderate flow, clear			
Weather / Temperature: 78 °F, Sunny			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	None
						Sample Collection Equipment/Method	Composite, Designated sampling spoon
Analyses Total Cadmium and Chromium						Sample Appearance / Description	
6"	----	6/17/24	11:15	152033-SM-SD-14	MS/MSD	Loose brown sand, some sub-rounded gravel, trace and brown silt, well graded (WG) Temp: 19.85 °C; pH: 6.71; ORP: 76; Conductivity: 0.291 mS/cm; Turbidity: 0.0 NTU; DO: 6.45 mg/L	

Logged by:

L. Casey

Signature

LC

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