

March 1, 2021

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**Subject: Groundwater and Surface Water Monitoring Report, Main Plant Site
October 2020 Event
Former Ciba-Geigy Facility, Glens Falls, NY
(Site No. 557011; EPA ID NYD002069748)**

Dear Mr. Jankauskas:

On behalf of Hercules Incorporated (previously acquired by Ashland LLC) and CIBA Corporation ("CIBA") (previously acquired by BASF Corporation), EHS Support LLC is submitting the enclosed *Groundwater and Surface Water Monitoring Report* for the Main Plant Site at the former Ciba-Geigy Corporation pigments manufacturing facility located at 89 Lower Warren Street in the Town of Queensbury near Glens Falls, New York.

Groundwater and surface water sampling and gauging were performed in accordance with the monitoring program presented in the *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter dated September 21, 2020.

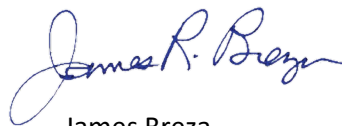
If you have questions or would like to discuss this report, please contact Cassie Johnson at 608-558-6795.

I, Cassie R. Johnson, P.E., certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this *Groundwater and Surface Water Monitoring Report* dated March 2021 for the Former Ciba-Geigy facility located in Queensbury, New York, was prepared in accordance with all applicable statutes and regulations and with DER *Technical Guidance for Site Investigation and Remediation* (DER-10).

Regards,



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Enclosure

Enclosure

Groundwater and
Surface Water
Monitoring Report -
Main Plant Site
October 2020 Event
Former Ciba-Geigy
Facility
Glens Falls, NY

Prepared for:

 **HERCULES**

Prepared by:

EHS  Support™

March 2021



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Acronyms

µg/L	micrograms per liter
µm	micrometer
bgs	below ground surface
CGW	groundwater concentration
DCB	dichlorobenzene
DO	dissolved oxygen
ELAP	Environmental Laboratory Approval Program
GSMP	Groundwater and Surface Water Monitoring Plan
GSMR	Groundwater and Surface Water Monitoring Report
GWES	groundwater extraction system
mL	milliliter
MPS	Main Plant Site
MS/MSD	matrix spike/matrix spike duplicate
NGVD29	National Geodetic Vertical Datum of 1929 (also known as the sea level datum)
NTU	nephelometric turbidity units
NYCRR	New York Code, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	oxidation-reduction potential
QC	quality control
ROP	Remedy Optimization Plan
SWQC	surface water quality criteria
TOGS	Technical and Operational Guidance Series
USEPA	United States Environmental Protection Agency

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Executive Summary

This *Groundwater and Surface Water Monitoring Report* (GSMR) presents sampling data collected in October 2020 for the Main Plant Site (MPS) area at the former Ciba-Geigy Corporation pigments manufacturing facility, located at 89 Lower Warren Street in Queensbury, New York, just east of the City of Glens Falls and adjacent to the Hudson River (the Site). EHS Support LLC (“EHS Support”) is submitting this report to the New York State Department of Environmental Conservation (NYSDEC) on behalf of Hercules Incorporated (“Hercules,” previously acquired by Ashland LLC) and CIBA Corporation (“CIBA”, previously acquired by BASF Corporation). Hercules and CIBA are the Site permittees and share responsibility for ongoing environmental activities.

Groundwater and surface water monitoring was performed in accordance with the sampling program presented in the *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter (EHS Support, 2020), as approved by the NYSDEC in September 2020 (NYSDEC, 2020). The sampling program included the collection and laboratory analysis of samples from 19 wells, 2 sumps, and 4 surface water locations in October 2020.

Overall groundwater elevation data and flow conditions were consistent with previous data and interpretations, with groundwater flow predominantly to the south, except where overburden groundwater is intercepted by the French Drain system. Based on the data, the French Drain operations influence the groundwater gradient and achieve extraction of overburden groundwater in the vicinity of former Buildings 56 and 8. A detailed assessment of groundwater hydraulic data, including a presentation of pressure transducer data and a discussion of the effectiveness of the groundwater extraction system (GWES), was provided in the *Remedy Optimization Report* in October 2017 (EHS Support, 2017) and in the *Revised Remedy Optimization Report* in March 2019 (EHS Support, 2019). The *Revised Remedy Optimization Report* was approved by the NYSDEC in May 2019 (NYSDEC, 2019).

The analytical results for the Hudson River surface water samples collected in October 2020 were below applicable surface water quality standards. The results are consistent with the Conceptual Site Model, which indicates that attenuation processes are occurring on-site and within the hyporheic zone prior to discharge to the river, such that the potential flux of constituents from groundwater to the river is not sufficient to result in an exceedance of surface water quality standards. This is supported by the results of the surface water sampling conducted in the river immediately adjacent to and downstream of impacted groundwater areas on-site.

Chromium and cyanide concentrations in groundwater samples collected during this reporting period were within the range of concentrations measured during recent sampling events. The long-term trend at the MPS has been an overall decline in groundwater concentrations since the Corrective Measures were implemented in 2003. Groundwater concentrations above GA standards are limited to the areas of the Site where overburden French Drain Sumps A and B and intermediate bedrock extraction well EW-B5 continue to operate. Groundwater on-site is not used, and usage is precluded via institutional control (Deed Notice).

The magnitude of hexavalent chromium at the historical source area well MW-OB14 was higher during this sampling event than in 2019, but within the range of concentrations observed since 2015 and historically. The hexavalent chromium concentration in well MW-OB14 is an order of magnitude below



the historical maximum concentration observed in 1993. GA standard exceedances are present in the riverbank wells (MW-OB30 through MW-OB34). However, multiple lines of evidence demonstrate that the chromium and cyanide concentrations in Site groundwater are not adversely impacting surface water quality.

Consistent with previous sampling rounds, the highest concentrations of chromium in the riverbank wells were measured at wells MW-OB30 and MW-OB33. The hexavalent chromium concentrations in both wells were below the conservative *Remedy Optimization Plan* (ROP) groundwater concentration (CGW) value of approximately 2,800 micrograms per liter ($\mu\text{g/L}$). Further, as detailed in the *Revised Remedy Optimization Report* (EHS Support, 2019), hydraulic data demonstrates that overburden groundwater at wells MW-OB30 and MW-OB33 (located downgradient of the French Drain) are within the capture zone of the French Drain.

As during previous events, the cyanide concentration in groundwater at well MW-OB32 exceeded the GA standard. However, the analysis of free cyanide at this well from 2015 to 2017 demonstrated that the free cyanide concentrations at this well are two orders of magnitude below the conservative ROP CGW of approximately 1,600 $\mu\text{g/L}$ (as calculated under drought conditions).

Consistent with previous sampling rounds, GA standard exceedances were present at intermediate bedrock extraction well EW-B5 (Horizon B), where vertical gradients were historically increased during bedrock groundwater extraction and where the highest constituent concentrations are present on-site. Pumping was reinitiated at EW-B5 in mid-December 2018, and the well has been operational except during an approximately 1-month scheduled shut-down period from October to November 2019.

Hexavalent chromium concentrations measured at well EW-B5 in October 2020 (i.e., 42,000 $\mu\text{g/L}$) were consistent with the magnitude of concentrations measured since pumping was reinitiated in December 2018. Extraction well EW-B5 is operational at this time, and no additional planned shut-down periods are proposed during the upcoming reporting period.

In October 2020, the hexavalent chromium concentration at well AW-C11 was 1,600 $\mu\text{g/L}$, which is within the historical range. This concentration is lower than, but of a similar magnitude to, the concentration measured in 2002. Groundwater in the deep bedrock is not used, and usage is precluded via institutional control (Deed Notice).

In spring 2021, Hercules and CIBA plan to submit a revised *Groundwater and Surface Water Monitoring Plan* (GSMP) for the Site. The approach detailed in the GSMP for fall sampling at the MPS will be consistent with the *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter (EHS Support, 2020) that was approved by the NYSDEC in September 2020 (NYSDEC, 2020). The revised GSMP will also provide a proposed approach for additional focused groundwater sampling at the MPS in the spring each year.



1 Introduction

This *Groundwater and Surface Water Monitoring Report* (GSMR) presents groundwater and surface water monitoring data collected in October 2020 for the Main Plant Site (MPS) area at the former Ciba-Geigy Corporation pigments manufacturing facility located at 89 Lower Warren Street in Queensbury, NY (the Site) (**Figure 1**). Corrective measure operations are conducted for the MPS area under a New York State Department of Environmental Conservation (NYSDEC) Hazardous Waste Management Post Closure Permit (NYSDEC Site No. 557011).

EHS Support LLC (“EHS Support”) prepared this GSMR on behalf of Hercules Incorporated (“Hercules,” previously acquired by Ashland LLC), and CIBA Corporation (“CIBA”, previously acquired by BASF Corporation). Hercules and CIBA are the Site permittees and share responsibility for ongoing environmental activities. Groundwater and surface water monitoring was performed in accordance with the sampling program presented in the *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter (EHS Support, 2020a) and approved by the NYSDEC in September 2020 (NYSDEC, 2020).

A groundwater extraction system (GWES) is in operation at the Site, which includes the extraction of overburden groundwater from Sumps A and B in the French Drain System, and bedrock groundwater from extraction well EW-B5. Details of the GWES operations, including discharge monitoring and groundwater extraction volumes, are reported annually under separate cover in the *Operations and Maintenance Report*. As detailed in the *Remedy Optimization Plan* (ROP; EHS Support, 2016) pumping was discontinued at one of three sumps in the French Drain System (Sump C, located in the Eastern Area of the Site) and at all 20 bedrock extraction wells in November 2016.

Operation of the GWES French Drain in the Central and Western Areas of the Site (including Sumps A and B) continues as described in the ROP (EHS Support, 2016). Details regarding the construction of the French Drain System and the basis for optimized operations were provided in the ROP (EHS Support, 2016). The location of the French Drain sumps and descriptors for the Western, Central, and Eastern Areas are shown in **Figure 1**.

As detailed in the *Revised Remedy Optimization Report* (EHS Support, 2019), on December 12, 2018, pumping was reinitiated at well EW-B5, a Horizon B bedrock groundwater extraction well, and pumping has continued since that time, except for a scheduled one-month shut-down in October to November 2019 to allow for an evaluation of water levels and constituent concentrations during non-pumping conditions. Prior to reinitiating pumping, well EW-B5 was integrated into the Site telemetry system.

The objectives of the current groundwater and surface water monitoring program are:

- Implement low flow sampling to provide high-quality groundwater samples for the assessment of monitored parameter concentrations against water quality criteria and GWES performance goals.
- Monitor key Site constituents (cyanide, chromium, and hexavalent chromium) in groundwater to assess trends in concentrations.
- Monitor dichlorobenzene (DCB) concentrations in groundwater at one well to assess trends in concentrations.
- Conduct surface water sampling in the Hudson River to:
 - Assess the potential presence of monitored constituents from possible upstream sources.



- Demonstrate that potential constituent mass flux from the Site is not leading to exceedances of NYSDEC surface water quality standards.
- Conduct groundwater and surface water level monitoring to assess hydraulic conditions in groundwater and surface water, including the performance of GWES operations.

A discussion of the environmental setting, including the Site geology and hydrogeology, is provided in **Section 2**. Details regarding field activities and quality control sampling, laboratory methods, water quality, and GWES performance criteria used for assessment and data validation are provided in **Section 3**. A summary of water level monitoring and groundwater hydraulics at the Site is provided in **Section 4**. Sample analytical results and comparison to criteria are discussed in **Section 5**. A list of documents referenced in this report is provided in **Section 6**.

In spring 2021, Hercules and CIBA plan to submit a revised *Groundwater and Surface Water Monitoring Plan* (GSMP) for the Site. The approach detailed in the GSMP for fall sampling at the MPS will be consistent with the *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter (EHS Support, 2020) that was approved by the NYSDEC in September 2020 (NYSDEC, 2020). The revised GSMP will also provide a proposed approach for additional focused groundwater sampling at the MPS in the spring each year.



2 Environmental Setting

The following is a summary of the geologic and hydrogeologic settings at the Site. In-depth review and evaluation of the Site's geologic and hydrogeologic setting were presented in the *Site Conceptualization and Groundwater Corrective Measures Effectiveness Evaluation Report* dated January 2015 (EHS Support, 2015). An illustration of the Site's stratigraphic and hydrogeologic units, as well as the geologic cross section, is shown in **Figure 2**.

2.1 Site Geology

The Site lies on the bank of the Hudson River. The unconsolidated and consolidated lithologies beneath the Site consist of glaciolacustrine and fluvial sediments (overburden) and underlying limestone bedrock. The overburden is a combination of industrial fill and fluvial/glaciolacustrine sands (with some silt and clay), with glaciolacustrine clay (and locally glacial till) at its base.

The bedrock is primarily limestone comprising three geologic formations: Glens Falls Limestone, Isle La Motte Formation (predominantly limestone), and Fort Ann Formation (predominantly calcitic dolostone or dolomitic limestone) (**Figure 2**). The limestone bedrock can be characterized as massive, with limited to no intergranular porosity and with groundwater movement concentrated in fracture (secondary) porosity.

The historical structural forces that have acted upon the regional geology in the study area have created an enhanced secondary porosity of the limestone rock in the form of joints and fractures. Structural fractures formed parallel to bedding planes. The sub-horizontal bedding plane fractures are typically the main contributor to active groundwater flow through secondary porosity development. The more open and continuous these features are, the greater the influence they have on groundwater flow direction. Sub-vertical fractures may influence localized groundwater flow. High-angle joints, which formed almost 90 degrees to the bedding planes, also occur and are mostly mineralized; and hydraulic conductivity associated with these features is likely to be low. Relief of lithostatic load due to erosion during uplift (including isostatic uplift following glaciation) is likely to have been a significant contributor to the opening of horizontal or low-angle bedding fractures to form the water-bearing zones.

2.2 Site Hydrogeology

Four groundwater units have been characterized at the Site, with groundwater flow in the limestone bedrock controlled primarily by three zones of open, sub-horizontal, bedding-parallel fracture networks. The four groundwater units are listed below, from shallow to deep, and are shown in **Figure 2**:

- Overburden – unconsolidated sediments
- Horizon A (shallow) – limestone
- Horizon B (intermediate) – limestone
- Horizon C (deep) – limestone

The typical depth of the groundwater unit's fracture zones for the western part of the Site is shown in **Figure 2**. In summary, Horizon A fracture zone occurs approximately 40 feet below ground surface (bgs), Horizon B fracture zone occurs approximately 60 feet bgs, and Horizon C fracture zone occurs approximately 160 feet bgs. Note, the bedding plane fracture zones generally become shallower



towards the east, with Horizons A and B likely intersecting the top of the bedrock surface in the central and eastern parts of the Site, respectively (see **Figure 2**).

The groundwater flow within the four units is described as follows.

- *Overburden*: Groundwater flow in the overburden is to the south towards the Hudson River, with groundwater likely to discharge to the river under natural (pre-remediation) conditions. The overburden material (native lacustrine sediments, till, and fill) is variably saturated. The Overburden water-bearing zone includes the saturated portions of the fill and lacustrine sands and silts situated above the lacustrine clay unit (and local underlying till) or, where the clay unit is absent, above the bedrock surface. The water-bearing zone is locally thin and discontinuous, with unsaturated areas occurring near the Hudson River. The extent and/or existence of these areas varies with seasonal fluctuations in the groundwater table elevation.
- *Horizon A (shallow)*: Groundwater flow within Horizon A is generally in a southerly direction towards the Hudson River.
- *Horizon B (intermediate)*: Groundwater flow within Horizon B is generally in a southerly direction, with groundwater elevations below the elevation of the Hudson River.
- *Horizon C (deep)*: Horizon C groundwater elevations are below the elevation of the Hudson River, with groundwater flow generally to the west-southwest across the Site. There is a possibility that local dewatering of a quarry located southwest of the Site (on the south side of the Hudson River) may influence the direction of groundwater flow within Horizon C.



3 Groundwater and Surface Water Sampling Field Activities

One monitoring event was conducted at the MPS area during this reporting period by Antea Group. Groundwater level gauging and groundwater and surface water sampling were performed in accordance with the summary provided in **Table 1**. **Table 2** through **Table 6** present field and laboratory data.

Groundwater and surface water monitoring locations are shown in **Figure 3** through **Figure 6**. The field activities, quality control sampling, laboratory analysis, and water quality criteria used for data evaluation are summarized below. The results of monitoring and data evaluations are discussed in **Sections 4** and **5** of this report.

3.1 Water Level Gauging

Depth-to-groundwater measurements were collected during the monitoring event using an electronic level meter/interface probe. The measurements were converted to groundwater elevations using the top-of-casing elevations, surveyed relative to the National Geodetic Vertical Datum of 1929 (NGVD29), also known as the sea level datum. The surface water level in the Hudson River at staff gauge SG-12, located adjacent to the Central Area of the Site, was also recorded during the October 2020 monitoring event. The surface water elevation was calculated using the measured level (water height) at the staff gauge and the surveyed gauge reference point elevation. Water level measurements and calculated elevation data are summarized in **Table 2**.

The water elevation data from the October 2020 monitoring event were used to develop groundwater elevation contour maps for the overburden, shallow bedrock, intermediate bedrock, and deep bedrock horizons (**Figure 3** through **Figure 6**). An evaluation of groundwater and surface water hydraulics is provided in **Section 4**.

3.2 Groundwater and Surface Water Sampling

Groundwater and surface water sampling were conducted in accordance with the field sampling methodology approved in the ROP (EHS Support, 2016). The scope of the groundwater and surface water sampling events was consistent with *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope* letter (EHS Support, 2020a), which was approved by the NYSDEC in September 2020 (NYSDEC, 2020). Supporting field documents are included in appendices as referenced below.

3.2.1 Groundwater Sampling

Groundwater samples were collected in accordance with the schedule in **Table 1**. Groundwater purging and well sampling was conducted using low flow methodology, with purging and sampling conducted using bladder pumps or, in select small diameter/low yielding wells, peristaltic pumps. At Sumps A and B and well EW-B5, samples for field parameter measurements and laboratory analysis were collected using disposable bailers. Clean/dedicated tubing, new (clean) disposable pump bladders, and/or new (clean) bailers were used at each location.

During purging, groundwater quality parameters including temperature, pH, conductivity, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were monitored using a Horiba flow-through cell. Purging continued until the monitored field parameter readings stabilized, or at low-



yielding wells, until the water level dropped below the pump and the well was dry/near dry. Where low yield was encountered, wells were allowed to recover until recharge of sufficient water for sampling was achieved. Barometric pressure was also recorded over the course of the monitoring event. Copies of the field sampling logs are included in **Appendix A**, along with a graph illustrating barometric pressure readings over the course of the October 2020 sampling event. Purging data (including the water column height in wells prior to purging, pump depths, purge flow rates, drawdown, and water volumes removed) are summarized in **Table 2**.

Samples were collected directly following purging, except where insufficient water was present, then samples were collected the next day or as soon thereafter as sufficient water recharge occurred. Field-measured water quality parameters (same as those monitored during purging) were recorded just prior to sample collection. Samples for laboratory analysis were pumped or poured (from bailers) directly into sample containers provided by the laboratory. Field water quality parameter measurements for each sample were recorded on the sampling logs (**Appendix A**) and are summarized in **Table 3**.

3.2.2 Surface Water Sampling

Surface water samples were collected during the October 2020 event in accordance with the schedule in **Table 1**. The sampling locations are as follows (refer to **Figure 1** for locations):

- Upstream location SW-04, located approximately 45 feet upstream of the Site western boundary
- Adjacent location SW-03, located in the river south of former Site Building 56
- Adjacent location SW-02, located in the river south of former Building 8 and the Weir Brook discharge area
- Downstream location SW-01, located near the eastern boundary of the Site

Surface water samples were collected off-shore in areas accessible from shore. Samples were collected using a peristaltic pump with tubing lowered approximately 1 foot below the water surface. Samples were visually observed to be clear and colorless.

Field parameters (temperature, pH, conductivity, DO, turbidity, and ORP) were measured prior to collection of samples for analysis. Samples were pumped directly into clean sample containers provided by the laboratory. Field parameters were recorded on field sampling logs included in **Appendix A**, and measurements collected just prior to sampling are included in **Table 3**.

3.3 Sample Laboratory Analysis

Laboratory analysis was conducted by Eurofins and ALS Laboratories, with applicable New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certification for the analyses performed. Clean sample containers were supplied by the laboratories with preservatives as applicable. The analysis performed and sample preservations completed in the field are detailed in **Table 4** and summarized below.

Groundwater samples were analyzed in accordance with the schedule in **Table 1**, using the following methods:

- Dissolved chromium by United States Environmental Protection Agency (USEPA) Method SW846 6020A, on samples field-filtered with a 0.45 micrometer (µm) filter



- Dissolved hexavalent chromium by USEPA Method 218.6, on samples field-filtered with 0.45 µm filter
- Total cyanide by USEPA Method SW846 9012B on unfiltered samples
- DCB (1,2-; 1,3-; and 1,4- isomers) for one sample location (AW-B18) using USEPA Method 8260C

Surface water samples were analyzed for the following parameters:

- Dissolved vanadium and dissolved chromium by USEPA Method SW846 6020A, on samples field-filtered with a 0.45 µm filter
- Dissolved hexavalent chromium by USEPA Method 218.6, on samples field-filtered with 0.45 µm filter
- Free cyanide by USEPA Method OIA-1677, with sample collection and preservation procedures including:
 - Test for presence of sulfide by pouring the surface water sample into glass vial with lead acetate test strip.
 - No change in test strip color was observed (no indication of excess sulfide), allowing for a 14-day hold time rather than a 24-hour hold time.
- Hardness by Standard Method (SM) 2340C
- Total dissolved solids by SM 2540C

Upon collection, samples were placed in coolers with ice for transport to the laboratory under chain-of-custody documentation. The analytical results for the samples are summarized in **Table 5** and **Table 6** (groundwater results) and **Table 7** (surface water results). The laboratory analytical reports are included in **Appendix B**. Results are discussed in **Section 5**.

3.4 Quality Control Sampling and Analysis

Quality control (QC) samples were collected in accordance with the procedures detailed in the ROP (EHS Support, 2016), including duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples at a minimum frequency of 5 percent, and equipment blank samples were collected daily.

Equipment blanks were used to assess the effectiveness of decontamination procedures. Following decontamination of the bladder pump, a clean bladder and tubing were installed, and a blank was collected by submerging the pump into laboratory-grade water in a clean container, and pumping water through the sample train into sample containers provided by the laboratory.

Duplicate samples collected during the October 2020 monitoring event included the following:

- Two duplicate groundwater samples (from EW-B5 and AW-B18)
- One duplicate surface water sample (from SW-03)

Duplicate, MS/MSD, equipment blank, and field blank samples were collected and analyzed using the same methods used for groundwater/surface water samples. Analytical results for the duplicate samples are included in **Table 5** through **Table 7** and analytical results for the equipment blank samples are included in **Table 8**. Results for all QC samples, including MS/MSD and other laboratory method QC samples are provided in the laboratory reports in **Appendix B**.



3.5 Water Quality Standards and GWES Performance Criteria

Surface water and groundwater quality standards and guidance values for comparison to groundwater and surface water data are derived from New York Code, Rules and Regulations (6 NYCRR 703.5 Table 1) and NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1) (NYSDEC, 1998). Available water quality standards/guidance values (also referred to herein as criteria) for each analyte were provided in the ROP (EHS Support, 2016). The water quality criteria selected for comparison with the Site monitoring data are comprised of the following:

- Class GA groundwater quality standards protective of fresh groundwater for drinking water sources: The GA standards are included in **Table 5** and **Table 6**.
- Surface water quality criteria (SWQC) for Class C waters, selected based on New York's classification of the Hudson River in the Site vicinity as "Class C" water: The available criteria for screening include standards/guidance values for protection of human health (based on water supply or fish consumption) and/or protection of aquatic life from chronic and acute effects (designated as A[C] and A[A], respectively). The available aquatic protection values (A[C], which are the lowest surface water criteria available for fresh Class C waters) were used for screening and are included in **Table 7** for hexavalent chromium, free cyanide, and vanadium, and in **Table 9** for chromium (criteria derived based on Site-specific water hardness measurements).

It is noted that comparison of groundwater data to GA standards is for reference only. Groundwater on-site is not used and use of on-site groundwater for any purpose is precluded (pursuant to the Deed Notice filed with Warren County).

GWES performance criteria were developed and presented in the ROP groundwater concentration (CGW) values in ROP Table 4-2 (EHS Support, 2016). These values represent conservative groundwater concentrations for the protection of surface water quality, as calculated using dilution attenuation factors. The CGW values for hexavalent chromium and free cyanide are:

- Hexavalent Chromium: 2,838 micrograms per liter (µg/L) for overburden horizon; 80,828 µg/L for bedrock.
- Free Cyanide: 1,602 µg/L for overburden horizon; 69,586 µg/L for bedrock.

3.6 Data Quality Review

Analytical reports generated for the sampling events completed during this reporting period meet NYSDEC requirements for a Category B data package.

The data were assessed for usability, and Tier II Validation Reports were prepared (**Appendix C**). All data were found to be usable. The analytical data, updated to include data qualifiers applied based on the data usability review, are being uploaded to the NYSDEC website.



4 Water Levels and Groundwater Hydraulics

In October 2020, groundwater wells and the Hudson River staff gauge adjacent to the Site (SG-12) were gauged. Water level measurements and elevations (relative to NGVD29) are summarized in **Table 2**. Well locations and potentiometric surface maps for each groundwater horizon are provided in **Figure 3** through **Figure 6**.

The groundwater elevation data show flow conditions consistent with historical data and interpretations, with groundwater flow predominantly to the south except for the deep bedrock where flow is generally southwest. Operation of the French Drain, as well as variation in Hudson River stage, influence overburden gradients along the southern boundary of the Site. The French Drain system captures overburden groundwater flowing towards the Hudson River and creates a downgradient capture zone that extends up to 60 feet from the trench toward the river. This observation is supported by the hydraulic data presented in **Figure 3** and the evaluation presented in the *Revised Remedy Optimization Report* (EHS Support, 2019).



5 Groundwater and Surface Water Sampling Results

The results of groundwater and surface water sampling are discussed below. Field-monitored water quality parameters and laboratory analytical results for groundwater and surface water samples collected during this reporting period are summarized in tabular format (**Table 3** through **Table 7**) and graphical formats (**Figure 7** and **Figure 8**) to support the discussions below.

5.1 Field-Monitored Water Quality Parameters

The field measurements of temperature, pH, conductivity, DO, turbidity, and ORP, which were collected in groundwater and surface water, are included on the field data sheets (**Appendix A**). The values measured just prior to sampling are included in **Table 3**.

Groundwater geochemical conditions were relatively stable except within localized areas. During this reporting period, groundwater chemistry in the overburden and in the shallow and intermediate bedrock horizons displayed a circum-neutral pH (pH 6 to pH 9), except at certain wells where moderately alkaline (higher pH) levels were measured, primarily in the overburden wells. Deep bedrock groundwater pH was circum-neutral. Temperature, pH, DO, ORP, and electrical conductivity in monitoring wells were generally observed to decrease with depth.

Turbidity was low (0 to 10 nephelometric turbidity units [NTU]) in samples collected during this reporting period, except for the sample collected at well MW-OB26 (42 NTU). Well MW-OB26 was purged dry during this sampling event, and a grab sample was collected after sufficient recharge.

Consistent with previous monitoring events, the chemistry of surface water samples was oxidizing, and turbidity and conductivity were low (see **Table 3**). In general, DO and ORP remained aerobic and oxidizing. The sample pH ranged from 5.4 to 6.0, which is within the range of pH values recorded since 2015 (i.e., range of 5 to 10). During discrete events, the pH is generally similar at sampling locations upgradient, adjacent, and downgradient from the Site; therefore, there does not appear to be detectable influences on surface water chemistry from groundwater discharging from the Site or surface water discharging from Weir Brook.

5.2 Surface Water Analytical Results and Comparison to Standards

Surface water sampling was designed to provide surface water quality data at four locations in the Hudson River, including near shore locations upstream, adjacent to, and downstream of the Site (SW-01 through SW-04; **Figure 1**).

The results for surface water samples collected during this reporting period were below surface water quality standards. Field-monitored surface water quality parameters are included in **Table 3**, and analytical results are summarized in **Table 7** and in **Figure 7** and **Figure 8**. Calculated surface water quality standards for dissolved chromium (dependent on hardness) are included in **Table 9**.

The free cyanide, total chromium, hexavalent chromium, and vanadium results demonstrate compliance with the applicable surface water standards.



5.3 Groundwater Analytical Results and Comparison to Standards

The analytical results for chromium and cyanide in groundwater are summarized in **Table 5**, as well as in **Figure 7** and **Figure 8**, respectively. For ease in reference and understanding the lateral and vertical distribution, **Figure 7** and **Figure 8** show results for all groundwater horizons (i.e., overburden, and shallow, intermediate, and deep bedrock horizons). Well location markers are color-coded to indicate which horizon the well is screened in, and results that exceed the groundwater GA standards are denoted by orange text.

Chromium and cyanide concentrations in groundwater samples collected during this reporting period were within the range of concentrations measured during recent previous sampling events. GA standard exceedances are present at certain wells; however, groundwater on-site is not used, usage is precluded via institutional control (Deed Notice), and comprehensive hydraulic evaluations have demonstrated that the residual groundwater concentrations are not impacting surface water quality.

The long-term trend at the MPS has been an overall decline in chromium and cyanide concentrations in groundwater since the Corrective Measures were implemented in 2003. A detailed discussion of the sample results for each groundwater horizon and area on-site is provided below, and **Figure 9** through **Figure 12** depict the locations and COC concentration trends in select wells on-site. Further discussion regarding trends at key locations was provided in the NYSDEC-approved *Revised Remedy Optimization Report* (EHS Support, 2019).

5.3.1 Overburden Groundwater

Eleven overburden monitoring wells and two French Drain sumps were sampled in October 2020 (IP-4, MW-26, MW-31, MW-OB14, MW-OB25, MW-OB26, MW-OB30, MW-OB31, MW-OB32, MW-OB33, MW-OB34, Sump A, and Sump B). Key observations for overburden groundwater quality are as follows:

- Hexavalent chromium concentrations in overburden groundwater in historical source areas (i.e., upgradient of the French Drain) can vary by as much as an order of magnitude depending on Site conditions at the time of sampling. While higher than 2019, the magnitude of hexavalent chromium in overburden groundwater at the historical source area well MW-OB14 was within the range of concentrations observed during the recent period of increased monitoring (2015 to 2020).¹ Hexavalent chromium concentrations during previous monitoring events between 2015 and 2020 ranged from below the GA standard of 50 µg/L to 8,900 µg/L at this well. In October 2020, the hexavalent chromium concentration at well MW-OB14 was 5,000 µg/L, which is within the range of recent events, and is an order of magnitude below the historical maximum chromium concentration measured in this well in 1993 (54,000 µg/L) (see historical trend graph in **Appendix D**). Similarly, the hexavalent chromium concentration at well MW-OB25 in October 2020 was an order of magnitude higher than recent monitoring events but was of a similar magnitude as measured during sampling in 2013. Both well MW-OB14 and well MW-OB25 are located upgradient of the French Drain.
- GA standard exceedances of chromium and cyanide are present in one or more riverbank wells (MW-OB30 through MW-OB34); however, all concentrations are below the ROP CGW values developed for overburden groundwater. Multiple lines of evidence demonstrate that the

¹ Except for the March 2019 samples, when concentrations may have been reduced due to snow melt.



chromium and cyanide concentrations in Site groundwater are not adversely impacting surface water quality (EHS Support, 2019).

- Consistent with previous sampling rounds, the highest concentrations of chromium in the riverbank wells were measured at wells MW-OB30 and MW-OB33. The hexavalent chromium concentrations in both wells were below the conservative ROP CGW value. Further, as detailed in the *Revised Remedy Optimization Report* (EHS Support, 2019), hydraulic data demonstrates that overburden groundwater at wells MW-OB30 and MW-OB33 (located downgradient of the French Drain) are within the capture zone of the French Drain.
- As during previous events, the cyanide concentration in groundwater at well MW-OB32 exceeds the GA standard. However, the analysis of free cyanide at this well over the period from 2015 to 2017 demonstrates that the free cyanide concentrations at this well are two orders of magnitude below the conservative ROP CGW.
- In the Eastern Area (well MW-31), where groundwater extraction at Sump C was suspended in November 2016, the chromium concentration in groundwater was below the GA standard, while the cyanide concentration of 210 µg/L was near the GA standard of 200 µg/L. The concentrations are below the respective ROP CGW values developed for overburden groundwater.

5.3.2 Shallow Bedrock Groundwater

Three shallow bedrock monitoring wells were sampled in October 2020 (wells AW-11, AW-A14, and MW-25S). Concentrations of chromium and cyanide were below or near GA standards. All concentrations are also orders of magnitude below the ROP CGW values developed for groundwater in the shallow bedrock horizon. Groundwater on-site is not used, and usage is precluded via institutional control (Deed Notice).

5.3.3 Intermediate Bedrock Groundwater

Extraction well EW-B5 and two intermediate bedrock monitoring wells were sampled in October 2020 (wells AW-B4 and AW-B18). Observations for intermediate bedrock groundwater are as follows:

- Chromium and cyanide concentrations were below GA standards at wells AW-B4 and AW-B18 and were also orders of magnitude below the ROP CGW values developed for groundwater in the intermediate bedrock horizon.
- Hexavalent chromium concentration measured at well EW-B5 in October 2020 (i.e., 42,000 µg/L) were consistent with the magnitude of concentrations measured since pumping was reinitiated in December 2018.² This represents a reduction in the hexavalent chromium concentrations measured during the cessation of bedrock pumping between November 2016 and November 2018 (i.e., generally in the range of 110,000 to 140,000 µg/L).
- Extraction well EW-B5 is operational at this time; and no additional shut-down periods are proposed for the upcoming reporting period.
- The impacted intermediate horizon bedrock groundwater at well EW-B5 is not presenting a potential impact to surface water quality. The ROP included a conservative CGW value of approximately 81,000 µg/L for hexavalent chromium in the intermediate bedrock horizon for the protection of surface water. Further, the groundwater elevation in well EW-B5 is lower than the river; therefore, the intermediate bedrock groundwater is not discharging to the river.

² Except for the March 2019 samples, when concentrations may have been reduced due to snow melt.



- Dichlorobenzene analysis was performed on a sample collected the intermediate bedrock well AW-B18, which is located to the south of the Corrective Action Management Unit. The sample results were consistent with recent sampling events (see **Table 6**). GA standard exceedances were present (34 µg/L of 1,2-DCB and 3.6 µg/L of 1,4-DCB, as compared to the GA standard of 3 µg/L for each isomer). The historical maximum concentration in intermediate bedrock groundwater at the Site was 370 µg/L of 1,2 DCB in May 1992, and concentrations have been lower since that time.

5.3.4 Deep Bedrock Groundwater

Two wells were sampled in October 2020 (AW-C2 and AW-C11). In October 2020, the hexavalent chromium concentration at AW-C11 was 1,600 µg/L, which is within the historical range of concentrations measured at this well (see historical trend graph in **Appendix D**). Hexavalent chromium was not detected at AW-C2. An assessment of long-term groundwater concentration trends at the Site is ongoing. Groundwater in the deep bedrock is not used, and usage is precluded via institutional control (Deed Notice).



6 References

- Antea Group. 2014. *2013 Groundwater Monitoring Report*. Former CIBA-GEIGY/HERCULES Plant Site, 89 Lower Warren Street, Queensbury, NY. February 28.
- EHS Support LLC. 2015. *Site Conceptualization and Groundwater Corrective Measures Effectiveness Evaluation Report*. Former Ciba-Geigy Facility, Glens Falls, NY. January.
- EHS Support LLC. 2016. *Remedy Optimization Plan*. Former Ciba-Geigy Facility, Glens Falls, NY. August 2016. *Revised November 2016*.
- EHS Support LLC. 2017. *Remedy Optimization Report*. Former Ciba-Geigy Facility, Glens Falls, NY. October.
- EHS Support LLC. 2019. *Revised Remedy Optimization Report*. Former Ciba-Geigy Facility, Glens Falls, NY. March.
- EHS Support LLC. 2020. *Rationale for Proposed Reduction in Fall Groundwater Sampling Scope*. Former Ciba-Geigy Facility, Glens Falls, New York. September 21.
- NYSDEC. 1998. Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (October 22, 1993, Reissue Date June 1998, as modified and supplemented by the January 1999 Errata Sheet and the April 2000 and June 2004 Addenda).
- NYSDEC. 2019. Letter from Brian Jankauskas at NYSDEC to James Vondracek at Ashland LLC, and Stephen Havlik at BASF Corporation. May 15.
- NYSDEC. 2020. Letter from Brian Jankauskas at NYSDEC to James Vondracek at Ashland LLC, and Stephen Havlik at BASF Corporation. September 30.



Tables

Table 1
Sampling Event Schedule - October 2020
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Gauge Only	Gauge & Sample	Area of the Property	Field Parameters ¹	Total Cyanide ²	Dissolved Chromium and Hexavalent Chromium ³	Free Cyanide ⁴	Dissolved Vanadium ³	1,2-, 1,3-, and 1,4-Dichloro-benzenes	Total Dissolved Solids ⁵	Hardness	Sampling Pump
Overburden Wells											
	IP-4	Western	1	1	1						0.75" Bladder or Peristaltic Pump
	MW-28 ⁶	Western	1	1	1						Peristaltic Pump
	MW-31	Eastern	1	1	1						1.75" Bladder Air Tank or Peristaltic Pump
	MW-OB14	Central	1	1	1						1.75" Bladder Pump or Peristaltic Pump
	MW-OB25	Central	1	1	1						1.75" Bladder Pump or Peristaltic Pump
	MW-OB26	Central	1	1	1						1.75" Bladder Pump or Peristaltic Pump
	MW-OB30	Central	1	1	1						Peristaltic Pump
	MW-OB31	Central	1	1	1						Peristaltic Pump
	MW-OB32	Central	1	1	1						Peristaltic Pump
	MW-OB33	Central	1	1	1						Peristaltic Pump
MW-OB34	Central	1	1	1						Peristaltic Pump	
AP-2	Wells to be gauged only.										
BP-6											
BP-9											
MW-9											
MW-26											
MW-OB2											
MW-OB5											
MW-OB7											
MW-OB13											
MW-OB15											
MW-OB24											
MW-OB27											
WP-CC-12											
Sumps											
	Sump A	Central	1	1	1						Grab
	Sump B	Central	1	1	1						Grab
Shallow Bedrock Wells											
	AW-A11	Central	1	1	1						1.75" Bladder Normal
	AW-A14	Central	1	1	1						1.75" Bladder Normal
	MW-25S	Western	1	1	1						1.75" Bladder Normal
AW-A2	Wells to be gauged only.										
AW-A4											
AW-A10											
AW-A15											

Table 1
Sampling Event Schedule - October 2020
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Gauge Only	Gauge & Sample	Area of the Property	Field Parameters ¹	Total Cyanide ²	Dissolved Chromium and Hexavalent Chromium ³	Free Cyanide ⁴	Dissolved Vanadium ³	1,2-, 1,3-, and 1,4-Dichloro-benzenes	Total Dissolved Solids ⁵	Hardness	Sampling Pump
MW-19	Wells to be gauged only.										
MW-27S											
MW-36S											
P-A1											
Intermediate Bedrock Wells											
	AW-B4	Central	1	1	1						0.75" Bladder
	EW-B5	Central	1	1	1						Grab
	AW-B18	Western	1	1	1			1			1.75" Bladder Normal
AW-B2	Wells to be gauged only.										
AW-B3											
AW-B11											
AW-B17											
AW-B19											
AW-B20											
MW-10B											
MW-20D											
MW-25D											
MW-30D											
MW-36D											
MW-40B											
Deep Bedrock Wells											
	AW-C2	Western	1	1	1						1.75" Bladder Air Tank
	AW-C11	Central	1	1	1						1.75" Bladder Air Tank
AW-C1	Wells to be gauged only.										
AW-C7											
AW-C8											
AW-C9											
AW-C10											
MW-20C											
MW-36C											
Surface Water Samples											
	SW-01	Downriver	1		1	1	1		1	1	Peristaltic Pump
	SW-02	Central	1		1	1	1		1	1	Peristaltic Pump
	SW-03	Central	1		1	1	1		1	1	Peristaltic Pump
	SW-04	Upriver	1		1	1	1		1	1	Peristaltic Pump
SG-12	Surface water location to be gauged only.										

Notes:
1 = Field parameters to include pH, temperature, dissolved oxygen, redox potential, electrical conductivity, turbidity and barometric pressure.
2 = Total cyanide is an unfiltered sample.
3 = Chromium, hexavalent chromium and vanadium samples filtered in the field using 0.45 micrometer (µm) filters
4 = Free Cyanide is an unfiltered sample. Free Cyanide samples are to be collected per lab instructions.
5 = Total Dissolved Solids are to be laboratory-derived, not calculated.
6 = MW-28 has produced insufficient water for sampling during some previous groundwater sampling events. If well MW-28 is unable to be sampled, well MW-26 will be sampled as a substitute.

Pump	Description of Equipment associated with Pump.
1.75" Bladder Normal	1.75" QED Sample Pro Bladder Pump, with QED MP10 control box and QED MP2030 Air Compressor
1.75" Bladder Air Tank	1.75" QED Sample Pro Bladder Pump, with QED MP15 control box and air cylinder for remote locations (hillside or down by river)
0.75" Bladder	0.75" QED Sample Pro Bladder Pump, with QED MP10 control box and QED MP2030 Air Compressor
Peristaltic Pump	Geotech peristaltic pump, good for 1" wells, or wells with water columns too short for bladder pump use. Also good for remote hillside locations with use of battery packs.

Table 2
Water Level Gauging and Purging Data Summary - October 2020
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid ID	Well Name	Gauging Date	Gauging Time	Total Depth (ft btoc)	DTW (ft btoc)	TOC Elev (ft NGVD29)	Water Elevation (ft NGVD29)	Sample Pump Depth (ft btoc)	Purge Date	Sample Pump rate (mL/min)	Pre- Purge WL (ft btoc)	Post Purge WL (ft btoc)	Water Vol. Purged (gal)	Pump Type	Comments
OVERBURDEN															
D-5	AP-2	10/26/20	14:20	19.92	16.17	240.04	223.87	gauged only							--
F-4	BP-6	10/26/20	14:01	47.28	36.11	236.74	200.63	gauged only							--
E-5	BP-9	10/26/20	14:00	18.52	18.41	232.52	214.11	gauged only							--
D-4	IP-4	10/26/20	12:08	12.84	4.35	249.40	245.05	8.49	10/26/20	120	4.36	4.52	2.75	P	--
B-4	MW-9	10/26/20	11:05	44.45	18.92	246.25	227.33	gauged only							--
B-5	MW-26	10/26/20	11:10	13.31	11.22	242.10	230.88	12.25	10/27/20	100	11.20	11.58	1.2	P	--
B-5	MW-28	10/26/20	11:30	11.29	11.23	240.20	228.97	gauged only							--
G-4	MW-31	10/26/20	14:15	17.12	9.26	217.58	208.32	14.62	10/27/20	155	8.31	8.56	3.5	B	--
C-1	MW-OB2	10/26/20	11:06	18.40	12.42	284.70	272.28	gauged only							--
B-3	MW-OB5	10/26/20	11:39	14.32	9.86	263.70	253.84	gauged only							--
B-4	MW-OB7	10/26/20	14:27	13.97	10.68	249.20	238.52	gauged only							--
F-3	MW-OB13	10/26/20	13:25	15.05	10.63	244.50	233.87	gauged only							--
E-4	MW-OB14	10/26/20	14:24	20.36	11.11	241.65	230.54	15.96	10/29/20	150	11.46	13.40	0.10	P	Grab sample, greenish yellow water
F-1	MW-OB15	10/26/20	12:28	7.38	2.80	262.35	259.55	gauged only							--
C-3	MW-OB24	10/26/20	11:38	18.19	12.98	270.55	257.57	gauged only							--
E-4	MW-OB25	10/26/20	13:11	11.57	8.92	238.45	229.53	10.26	10/28/20	150	8.96	10.11	0.40	P	Deploy pump to 11.47'@09:11, well dry at 09:25
F-4	MW-OB26	10/26/20	13:50	17.91	13.41	238.45	225.04	17.67	10/30/20	100	17.42	17.91	0.10	P	Trolls removed @09:45, redeployed @10:34, deploy pump to 17.85' @ 10:14; dry @ 10:24. Grab sample taken prior to parameter reading; not enough water for parameter reading after the sample.
H-3	MW-OB27	10/26/20	10:15	15.90	12.74	239.15	226.41	gauged only							--
D-5	MW-OB30	10/26/20	13:32	18.55	10.41	225.71	215.30	14.58	10/29/20	100	10.58	16.81	0.8	P	10:08 put pump intake @ approximately 6" off bottom. After 7/8 PFAS bottles DTW 18.33', dropped to 18.45' for final bottle sampled. Slight brown color in 8th bottle.
D-5	MW-OB31	10/26/20	13:56	15.96	10.09	226.02	215.93	11.95	10/28/20	150	9.94	10.25	2.0	P	--
E-5	MW-OB32	10/26/20	13:46	13.31	9.17	227.96	218.79	11.18	10/28/20	150	9.03	9.86	2.0	P	--
E-5	MW-OB33	10/26/20	13:42	15.51	7.80	224.03	216.23	11.63	10/28/20	100	7.75	7.82	2.0	P	--
F-5	MW-OB34	10/26/20	13:47	16.35	13.25	223.58	210.33	15.62	10/28/20	100	14.87	15.85	1.5	P	Grab - well was going dry; all stable except DO
D-5	Sump A	10/26/20	10:11	NA	29.13	239.89	210.76	n/a	10/28/20	n/a	n/a	28.20	n/a	HB	--
F-4	Sump B	10/26/20	9:26	NA	24.58	236.39	211.81	n/a	10/28/20	n/a	n/a	23.16	n/a	HB	--
A-5	WP-CC-12	10/26/20	11:35	19.95	DRY	251.64	DRY	gauged only							--
SHALLOW BEDROCK															
B-4	AW-A2	10/26/20	10:20	40.11	25.42	249.10	223.68	gauged only							--
A-5	AW-A4	10/26/20	11:40	39.04	22.01	238.43	216.42	gauged only							--
C-5	AW-A10	10/26/20	11:50	45.65	26.40	239.05	212.65	gauged only							--
D-5	AW-A11	10/26/20	14:16	57.34	28.24	239.60	211.36	52.34	10/27/20	200	28.06	29.00	5.00	P	--
E-5	AW-A14	10/26/20	13:43	31.92	16.91	236.82	219.91	26.92	10/27/20	150	16.52	18.31	2.50	B	--
C-4	AW-A15	10/26/20	11:55	34.11	16.87	246.90	230.03	gauged only							--
B-4	MW-19	10/26/20	10:36	45.70	16.35	249.10	232.75	gauged only							--
B-5	MW-25S	10/26/20	11:13	42.15	27.77	241.55	213.78	37.15	10/28/20	100	27.43	28..99	3.0	B	--
B-5	MW-27S	10/26/20	11:25	34.25	18.73	240.57	221.84	gauged only							--
B-3	MW-36S	10/26/20	11:45	36.16	22.55	264.85	242.30	gauged only							--
C-1	P-A1	10/26/20	12:50	14.31	17.03	283.30	266.27	gauged only							--

Table 2
Water Level Gauging and Purging Data Summary - October 2020
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Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid ID	Well Name	Gauging Date	Gauging Time	Total Depth (ft btoc)	DTW (ft btoc)	TOC Elev (ft NGVD29)	Water Elevation (ft NGVD29)	Sample Pump Depth (ft btoc)	Purge Date	Sample Pump rate (mL/min)	Pre- Purge WL (ft btoc)	Post Purge WL (ft btoc)	Water Vol. Purged (gal)	Pump Type	Comments
INTERMEDIATE BEDROCK															
B-4	AW-B2	10/26/20	10:10	54.59	24.99	248.80	223.81	gauged only							--
A-5	AW-B3	10/26/20	11:51	60.47	27.16	244.70	217.54	gauged only							--
E-5	AW-B4	10/26/20	13:42	46.03	30.41	238.25	207.84	41.03	10/27/20	70	30.12	31.73	3.00	B	--
C-5	AW-B11	10/26/20	11:41	59.30	29.35	238.65	209.30	gauged only							--
E-5	AW-B14	10/26/20	NG	NG	NG	238.10	NG	--							--
E-5	AW-B15	10/26/20	NG	NG	NG	236.75	NG	--							--
F-4	AW-B17	10/26/20	13:53	47.28	36.11	236.42	200.31	gauged only							--
C-4	AW-B18	10/26/20	12:00	55.70	37.74	247.30	209.56	50.70	10/26/20	145	37.70	38.45	2.50	B	--
E-4	AW-B19	10/26/20	12:15	52.65	34.86	245.48	210.62	gauged only							--
F-4	AW-B20	10/26/20	13:20	37.01	17.61	243.65	226.04	gauged only							--
F-5	EW-B5	10/26/20	9:37	53.69	47.99	235.75	187.76	n/a	10/28/20	n/a	n/a	48.88	n/a	HB	Grab sample bailer
F-2	MW-10B	10/26/20	12:19	34.95	27.99	254.70	226.71	gauged only							--
C-3	MW-20D	10/26/20	12:05	49.04	44.25	266.90	222.65	gauged only							--
B-5	MW-25D	10/26/20	11:22	59.27	33.37	241.30	207.93	gauged only							--
G-4	MW-30D	10/26/20	14:21	44.07	11.31	217.10	205.79	gauged only							--
B-3	MW-36D	10/26/20	11:50	54.35	41.37	266.40	225.03	gauged only							--
B-1	MW-40B	10/26/20	11:25	54.89	50.00	284.55	234.55	gauged only							--
DEEP BEDROCK															
B-1	AW-C1	10/26/20	11:20	134.47	36.91	283.50	246.59	gauged only							--
B-5	AW-C2	10/26/20	11:17	171.41	53.16	241.10	187.94	166.91	10/27/20	135	53.39	54.15	3.25	B	14:47 change CO2 tanks, 14:57 change CO2 tank
A-5	AW-C7	10/26/20	11:38	160.57	53.34	245.31	191.97	gauged only							--
B-4	AW-C8	10/26/20	10:00	164.07	60.43	249.10	188.67	gauged only							--
G-2	AW-C9	10/26/20	13:31	117.71	46.72	251.60	204.88	gauged only							--
F-2	AW-C10	10/26/20	12:25	135.70	53.41	254.95	201.54	gauged only							--
E-5	AW-C11	10/26/20	13:40	154.99	44.25	238.45	194.20	149.99	10/27/20	140	44.25	44.32	3.0	B	11:45 change CO2 tank/no CO2, wait for new tanks
C-3	MW-20C	10/26/20	12:00	166.05	76.08	269.25	193.17	gauged only							--
B-3	MW-36C	10/26/20	11:33	164.63	77.74	266.60	188.86	gauged only							--
						Reference Point (ft NGVD29)	Water Elevation (ft NGVD29)								
SURFACE WATER															
I-4	SW-01	10/26/20	NG	NG	NG	NG	NG	1.25	10/29/20	150	n/a	n/a	0.50	P	--
F-5	SW-02	10/26/20	NG	NG	NG	NG	NG	1.25	10/29/20	150	n/a	n/a	0.50	P	--
E-5	SW-03	10/26/20	NG	NG	NG	NG	NG	1.50	10/29/20	150	n/a	n/a	0.50	P	--
A-5	SW-04	10/26/20	NG	NG	NG	NG	NG	1.25	10/29/20	150	n/a	n/a	0.50	P	--
F-5	SG-12*	10/26/20	14:13	NA	2.28	210.47	208.19	gauged only							--

Notes:

* The gauge reference point for surface water gauge SG-12 is the elevation of the 3-foot mark on the gauge.

B = bladder pump

CO2 = carbon dioxide

DO = dissolved oxygen

DTW = Dept

ft btoc = feet below top of casing

ft NGVD29 = feet relative to National Vertical Geodetic Datum of 1929

gal = gallons

HB = hand bailer

mL/min = milliliters per minute

n/a = not applicable

NA = not available

NG = not gauged

P = peristaltic pump

PFAS = Per- and polyfluoroalkyl substances

TOC = top of casing

WL = water level

Table 3
Field-Monitored Parameters
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
Overburden									
D-4	IP-4	IP-4_20150723	07/23/15	0.41	0.49	-137	7.03	15.13	0.0
D-4	IP-4	IP-4_20151209	12/09/15	0.68	0.42	-211	7.87	9.58	0.0
D-4	IP-4	IP-4_20160727	07/27/16	0.50	0.00	-129	7.04	19.24	0.0
D-4	IP-4	IP-4_20161129	11/29/16	0.62	0.69	-173	6.80	10.29	0.0
D-4	IP-4	IP-4_20170301	03/01/17	0.39	0.61	-220	6.72	9.22	1.5
D-4	IP-4	IP-4_20170621	06/21/17	0.56	0.00	-166	9.77	14.72	0.0
D-4	IP-4	IP-4_20170913	09/13/17	0.43	0.94	-270	9.31	16.03	0.0
D-4	IP-4	IP-4_20171213	12/13/17	0.65	0.21	-170	7.12	9.88	5.1
D-4	IP-4	IP-4_20180321	03/21/18	0.50	0.00	-195	7.58	7.10	0.0
D-4	IP-4	IP-4_20180614	06/14/18	0.56	0.00	-214	8.95	15.15	0.0
D-4	IP-4	IP-4_20180919	09/19/18	0.60	0.00	-200	7.65	18.10	0.0
D-4	IP-4	IP-4_20190911	09/11/19	0.50	0.00	-133	8.72	20.01	0.0
D-4	IP-4	IP-4_20201026	10/26/20	0.70	1.26	-137	9.79	13.10	1.70
B-5	MW-26	MW-26_20150727	07/27/15	0.71	0.50	-14	7.27	19.61	0.4
B-5	MW-26	MW-26_20151208	12/08/15	1.17	0.70	-84	7.44	10.86	0.0
B-5	MW-26	MW-26_20160727	07/27/16	0.87	0.00	-174	7.50	15.58	0.0
B-5	MW-26	MW-26_20161129	11/29/16	0.75	1.66	-129	7.59	8.73	0.0
B-5	MW-26	MW-26_20170228	02/28/17	0.67	1.08	105	6.59	9.72	0.0
B-5	MW-26	MW-26_20170620	06/20/17	0.89	0.00	-9	7.84	14.52	0.0
B-5	MW-26	MW-26_20170912	09/12/17	0.80	2.09	-59	8.17	14.09	0.9
B-5	MW-26	MW-26_20171212	12/12/17	1.18	0.72	-145	7.89	11.44	1.8
B-5	MW-26	MW-26_20180320	03/20/18	0.79	0.00	104	7.41	7.86	0.0
B-5	MW-26	MW-26_20180612	06/12/18	0.83	0.00	0	8.03	12.88	2.6
B-5	MW-26	MW-26_20180918	09/18/18	0.64	0.00	19	7.95	18.63	0.0
B-5	MW-26	MW-26_20190909	09/09/19	0.88	0.00	173	8.34	15.96	0.0
B-5	MW-26	MW-26_20201027	10/27/20	0.917	0.77	-72	10.98	14.50	1.8
B-5	MW-28	MW-28_20160727	07/27/16	0.38	1.19	163	6.79	19.97	7.8
B-5	MW-28	-(2)	11/29/16	-	-	-	-	-	-
B-5	MW-28	MW-28_20170228	02/28/17	0.00	8.58	149	5.54	13.40	0.0
B-5	MW-28	-(2)	06/22/17	-	-	-	-	-	-
B-5	MW-28	-(2)	07/24/17	-	-	-	-	-	-
B-5	MW-28	-(2)	09/12/17	-	-	-	-	-	-
B-5	MW-28	-(2)	12/12/17	-	-	-	-	-	-
B-5	MW-28	-(2)	03/21/18	-	-	-	-	-	-
B-5	MW-28	-(2)	06/12/18	-	-	-	-	-	-
B-5	MW-28	-(2)	09/20/18	-	-	-	-	-	-
B-5	MW-28 ⁽³⁾	MW-28_20190910	09/09/19	0.27	0.00	-60	7.05	18.41	85.7
B-5	MW-28	-(9)	10/27/20	0.37	3.97	182	7.62	13.95	25.7
G-4	MW-31	MW-31_20150805	08/05/15	1.08	0.40	-255	5.71	15.39	1.6
G-4	MW-31	MW-31_20151209	12/09/15	1.09	1.86	-268	6.44	12.38	0.0
G-4	MW-31	MW-31_20160727	07/27/16	0.97	0.00	-266	6.39	18.61	0.0
G-4	MW-31	MW-31_20161201	12/01/16	1.30	0.81	-290	6.37	12.41	0.0
G-4	MW-31	MW-31_20170301	03/01/17	1.23	0.53	-187	6.36	10.43	0.0
G-4	MW-31	MW-31_20170622	06/22/17	1.05	0.00	-284	6.60	14.07	1.0
G-4	MW-31	MW-31_20170913	09/13/17	1.31	0.00	-330	6.75	17.88	0.0
G-4	MW-31	MW-31_20171214	12/14/17	1.17	0.00	-148	6.81	10.91	0.0
G-4	MW-31	MW-31_20180321	03/21/18	1.03	0.52	-284	6.73	7.96	0.0
G-4	MW-31	MW-31_20180613	06/13/18	1.06	0.00	-126	6.75	12.84	2.2
G-4	MW-31	MW-31_20180919	09/19/18	1.38	0.61	-203	6.58	22.22	3.5
G-4	MW-31	MW-31_20190319	03/19/19	0.92	0.00	-87	6.73	8.42	0.0
G-4	MW-31	MW-31_20190910	09/10/19	1.19	0.00	-108	6.69	16.16	0.0
G-4	MW-31	MW-31_20200326	03/26/20	1.30	6.00	-249	6.66	8.94	2.9
G-4	MW-31	MW-31_20201027	10/27/20	1.05	0.00	-295	6.97	12.38	0.0

Table 3
Field-Monitored Parameters
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
B-4	MW-OB7	MW-OB7_20150723	07/23/15	1.20	2.34	50	10.76	13.55	153.0
B-4	MW-OB7	MW-OB7-20151209	12/09/15	1.58	4.17	-65	10.04	11.03	0.0
B-4	MW-OB7	MW-OB7_20160728	07/28/16	0.88	0.00	-115	9.78	16.60	1.6
B-4	MW-OB7	MW-OB7_20161129 ⁽²⁾	11/29/16	-	-	-	-	-	-
B-4	MW-OB7	MW-OB7_20170301	03/01/17	0.61	0.76	-27	9.59	14.24	3.8
B-4	MW-OB7	MW-OB7_20170622	06/22/17	0.47	0.00	47	8.84	17.54	0.0
B-4	MW-OB7	MW-OB7_20170912	09/12/17	0.45	2.09	-178	11.86	19.18	2.7
B-4	MW-OB7	MW-OB7_20171212 ⁽³⁾	12/12/17	0.94	5.47	-156	8.47	8.30	9.8
B-4	MW-OB7	MW-OB7_20180320 ⁽³⁾	03/20/18	0.39	0.00	9	8.13	8.57	4.2
B-4	MW-OB7	MW-OB7_20180613	06/13/18	0.54	0.22	-189	7.53	17.12	0.4
B-4	MW-OB7	MW-OB7_20180917	09/17/18	0.47	5.96	-137	9.39	27.18	1.4
B-4	MW-OB7 ⁽³⁾	MW-OB7_20190910	09/10/19	0.44	0.00	-133	7.57	21.98	69.7
E-4	MW-OB14	MW-OB14_20150805	08/05/15	0.67	7.30	80	9.98	15.96	1.4
E-4	MW-OB14	MW-OB14_20160727	07/27/16	0.59	4.23	199	9.69	17.46	0.0
E-4	MW-OB14	MW-OB14_20161129	11/29/16	0.82	1.18	163	8.87	10.69	0.0
E-4	MW-OB14	MW-OB14_20170228	02/28/17	0.40	4.28	6	8.76	11.55	0.0
E-4	MW-OB14	MW-OB14_20170621	06/21/17	0.39	0.00	157	9.87	13.92	0.0
E-4	MW-OB14	MW-OB14_20170913	09/13/17	0.88	0.00	-118	10.59	15.26	1.6
E-4	MW-OB14	MW-OB14_20171212	12/12/17	1.46	4.02	3	11.69	10.24	3.1
E-4	MW-OB14	MW-OB14_20180321	03/21/18	0.49	0.74	23	10.02	8.41	0.0
E-4	MW-OB14	MW-OB14_20180613	06/13/18	0.43	1.84	66	10.11	15.04	3.3
E-4	MW-OB14	MW-OB14_20180918	09/18/18	0.63	1.49	22	9.64	15.67	0.7
E-4	MW-OB14	MW-OB14_20181210	12/10/18	0.42	8.24	208	9.80	9.80	0.0
E-4	MW-OB14	MW-OB14_20190321	03/21/19	0.38	0.12	-98	9.18	6.86	9.7
E-4	MW-OB14	MW-OB14_20190618	06/18/19	0.26	0.00	134	9.37	15.89	2.7
E-4	MW-OB14 ⁽³⁾	MW-OB14_20190911	09/11/19	0.46	7.33	84	9.60	16.47	10.9
E-4	MW-OB14	MW-OB14_20191209	12/09/19	0.33	0.00	43	9.05	9.18	0.0
E-4	MW-OB14	MW-OB14_20200325	03/25/20	0.33	7.75	83	7.83	7.36	0.0
E-4	MW-OB14	MW-OB14-20200616	06/16/20	0.39	7.22	33	8.36	18.12	0.0
E-4	MW-OB14	MW-OB14_20201029	10/28/20	0.56	6.02	-32	9.97	10.85	6.2
E-4	MW-OB25	MW-OB25-20151209	12/09/15	0.88	4.28	163	6.93	10.81	0.0
E-4	MW-OB25	MW-OB25_20160728	07/28/16	0.76	4.09	167	7.66	20.57	37.2
E-4	MW-OB25	MW-OB25_20161201	12/01/16	0.73	8.14	-4	8.94	9.43	0.0
E-4	MW-OB25	MW-OB25_20170228	02/28/17	0.32	5.34	74	7.99	10.10	0.0
E-4	MW-OB25	MW-OB25_20170621	06/21/17	0.85	4.56	220	9.89	17.22	0.0
E-4	MW-OB25	MW-OB25_20170913	09/13/17	0.52	3.14	12	9.30	23.38	6.1
E-4	MW-OB25	MW-OB25_20171212 ⁽³⁾	12/12/17	1.08	13.71	19	7.44	8.41	9.5
E-4	MW-OB25	MW-OB25_20180320	03/20/18	0.72	8.03	119	7.90	6.42	1.2
E-4	MW-OB25	MW-OB25_20180613 ⁽³⁾	06/13/18	0.60	4.86	182	7.89	16.40	13.8
E-4	MW-OB25	MW-OB25_20180919 ⁽³⁾	09/19/18	0.48	1.03	-14	8.25	23.75	1.4
E-4	MW-OB25	MW-OB25_20181210	12/10/18	0.48	4.99	181	8.08	7.43	1.1
E-4	MW-OB25	MW-OB25_20190319	03/19/19	0.32	5.21	202	7.11	6.35	7.1
E-4	MW-OB25	MW-OB25_20190619 ⁽³⁾	06/19/19	0.79	22.87	289	6.93	17.16	0.0
E-4	MW-OB25 ⁽³⁾	MW-OB25_20190912 ⁽³⁾	09/12/19	0.76	2.56	230	7.67	23.27	14.9
E-4	MW-OB25	MW-OB25_20191209	12/09/19	0.57	0.00	148	7.73	8.56	0.0
E-4	MW-OB25	MW-OB25_20200324	03/24/20	0.59	7.23	194	7.23	5.56	2.7
F-4	MW-OB25 ⁽⁸⁾	MW-OB25_20200617	06/16/20	0.73	6.19	126	7.30	22.38	0.0
F-4	MW-OB25 ⁽⁸⁾	MW-OB25_20201028	10/28/20	0.94	4.52	-39	7.78	12.99	2.7
F-4	MW-OB26	MW-OB26_20160728	07/28/16	1.16	0.00	251	7.15	17.39	49.9
F-4	MW-OB26	MW-OB26_20161201	12/01/16	1.51	2.39	7	12.21	8.63	12.5
F-4	MW-OB26	MW-OB26_20170228	02/28/17	1.40	3.38	159	8.18	11.06	0.0
F-4	MW-OB26	MW-OB26_20170622	06/22/17	1.20	5.30	193	10.69	19.82	0.0
F-4	MW-OB26	MW-OB26_20170914	09/14/17	0.96	1.66	-215	9.88	17.49	1.2
F-4	MW-OB26	MW-OB26_20171213 ⁽²⁾	12/13/17	-	-	-	-	-	-

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Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
F-4	MW-OB26	MW-OB26_20180320	03/20/18	1.14	1.35	119	8.53	9.88	1.5
F-4	MW-OB26	MW-OB26_20180614 ⁽³⁾	06/14/18	0.81	7.69	86	9.11	18.81	8.3
F-4	MW-OB26	MW-OB26_20180919 ⁽³⁾	09/19/18	1.07	2.92	-3	8.05	23.46	4.9
F-4	MW-OB26	MW-OB26_20181211 ⁽³⁾	12/11/18	1.02	7.13	251	8.58	9.62	9.8
F-4	MW-OB26	MW-OB26_20190320 ⁽³⁾	03/20/19	0.44	7.04	82	9.12	12.72	5.7
F-4	MW-OB26 ⁽³⁾	MW-OB26_20190619 ⁽³⁾	06/19/19	1.07	12.82	212	7.18	17.80	2.7
F-4	MW-OB26 ⁽³⁾	MW-OB26_20190911	09/11/19	1.53	4.38	0	9.51	20.21	29.3
F-4	MW-OB26 ⁽³⁾	MW-OB26_20191209 ⁽³⁾	12/09/19	1.69	1.94	-107	9.13	9.75	5.2
F-4	MW-OB26 ⁽³⁾	MW-OB26_20191210	12/10/19	1.25	0	110	9.89	10.51	6.4
F-4	MW-OB26 ⁽³⁾	MW-OB26_20200326 ⁽³⁾	03/26/20	0.91	4.17	181	8.13	13.58	0.0
F-4	MW-OB26 ⁽⁸⁾	MW-OB26_20200617	06/17/20	1.55	5.94	112	6.16	16.15	12.2
F-4	MW-OB26	MW-OB26_20201029	10/29/20	1.74	13.78	-268	8.96	11.22	42.0
F-4	MW-OB26	MW-OB26_20201030	10/29/20	1.74	13.78	-268	8.96	11.22	42.0
D-5	MW-OB30	MW-OB30-20151209 ⁽³⁾	12/09/15	3.87	2.17	-161	11.08	8.92	60.4
D-5	MW-OB30	MW-OB30_20160727	07/27/16	2.37	2.95	-110	11.54	28.48	0.0
D-5	MW-OB30	MW-OB30_20161130 ⁽³⁾	11/30/16	1.93	3.55	87	10.48	11.99	137.0
D-5	MW-OB30	MW-OB30_20170118	01/18/17	2.31	5.33	-95	11.45	12.62	2.2
D-5	MW-OB30	MW-OB30_20170302	03/02/17	1.45	2.73	-140	11.10	6.72	0.0
D-5	MW-OB30	MW-OB30_20170425	04/25/17	1.84	6.86	-39	11.87	9.75	0.8
D-5	MW-OB30	MW-OB30_20170622	06/22/17	1.68	0.00	-157	11.99	21.78	0.0
D-5	MW-OB30	MW-OB30_20170724 ⁽⁴⁾	07/24/17	2.02	1.09	-32	12.77	14.44	0.6
D-5	MW-OB30	MW-OB30_20170913	09/13/17	1.70	0.00	-212	11.85	23.78	1.2
D-5	MW-OB30	MW-OB30_20190320	03/20/19	0.71	0.00	59	10.96	11.46	3.1
D-5	MW-OB30	MW-OB30_20171220	12/20/17	2.32	1.90	-9	10.88	10.80	4.0
D-5	MW-OB30	MW-OB30_20180321	03/21/18	1.17	2.14	-121	10.07	8.27	0.0
D-5	MW-OB30	MW-OB30_20180614	06/14/18	1.34	2.69	-72	9.17	17.65	0.2
D-5	MW-OB30	MW-OB30_20180919	09/19/18	1.31	0.00	21	10.66	17.23	0.0
D-5	MW-OB30	MW-OB30_20180910	09/10/19	0.96	0.00	3	10.28	17.87	6.1
D-5	MW-OB30	MW-OB30_20200326	03/26/20	0.92	2.11	95	10.13	10.99	0.0
D-5	MW-OB30	MW-OB30_20201029	10/29/20	1.09	2.12	-142	10.73	11.34	8.5
D-5	MW-OB31	MW-OB31-20151209	12/09/15	0.99	1.30	-272	9.20	11.40	1.8
D-5	MW-OB31	MW-OB31_20160727	07/27/16	0.74	1.66	-176	6.71	20.32	40.9
D-5	MW-OB31	MW-OB31_20161201	12/01/16	0.85	0.85	-138	8.30	11.84	51.3
D-5	MW-OB31	MW-OB31_20170118	01/18/17	2.01	1.50	-240	9.32	9.43	2.5
D-5	MW-OB31	MW-OB31_20170302	03/02/17	0.84	2.30	-141	9.02	5.31	0.0
D-5	MW-OB31	MW-OB31_20170425	04/25/17	1.86	0.00	219	10.40	10.27	1.5
D-5	MW-OB31	MW-OB31_20170622	06/22/17	1.72	0.00	-273	10.57	22.95	0.0
D-5	MW-OB31	MW-OB31_20170725	07/25/17	1.29	0.00	-246	11.26	14.46	3.0
D-5	MW-OB31	MW-OB31_20170913	09/13/17	1.53	0.02	-412	10.10	18.64	2.5
D-5	MW-OB31	MW-OB31_20171214	12/14/17	2.82	0.61	-367	9.07	10.70	0.9
D-5	MW-OB31	MW-OB31_20180321	03/21/18	1.29	0.00	-312	9.02	6.08	0.0
D-5	MW-OB31	MW-OB31_20180614	06/14/18	1.15	0.00	-329	9.64	20.00	0.0
D-5	MW-OB31	MW-OB31_20180919	09/19/18	0.90	0.00	-271	9.44	18.80	3.2
D-5	MW-OB31	MW-OB31_20190320	03/20/19	0.93	3.44	-116	10.51	7.36	1.4
D-5	MW-OB31	MW-OB31_20190910	09/10/19	1.11	0.00	164	8.16	23.14	4.3
D-5	MW-OB31	MW-OB31_20200326	03/26/20	1.22	0.00	-267	10.47	15.58	0.0
D-5	MW-OB31	MW-OB31_20201028	10/28/20	1.52	0.53	158	10.22	11.59	1.0
E-5	MW-OB32	MW-OB32-20151208	12/08/15	1.24	2.78	212	7.79	11.25	0.0
E-5	MW-OB32	MW-OB32_20160726	07/26/16	0.90	0.00	202	7.79	17.06	0.0
E-5	MW-OB32	MW-OB32_20161201	12/01/16	1.15	2.81	163	7.14	11.84	0.0
E-5	MW-OB32	MW-OB32_20170302	03/02/17	0.85	5.36	218	7.18	4.59	0.0
E-5	MW-OB32	MW-OB32_20170425	04/25/17	1.20	2.15	292	7.57	8.98	0.0
E-5	MW-OB32	MW-OB32_20170622	06/22/17	1.44	0.17	247	7.65	15.48	0.0
E-5	MW-OB32	MW-OB32_20170725	07/25/17	1.06	0.22	261	8.18	14.54	1.2

Table 3
Field-Monitored Parameters
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
E-5	MW-OB32	MW-OB32_20170913	09/13/17	1.61	0.00	54	7.85	22.22	0.0
E-5	MW-OB32	MW-OB32_20171214	12/14/17	3.66	0.41	150	6.90	8.85	0.4
E-5	MW-OB32	MW-OB32_20180321	03/21/18	0.76	5.81	252	7.62	9.32	0.0
E-5	MW-OB32	MW-OB32_20180614	06/14/18	1.43	0.00	177	8.05	14.16	0.9
E-5	MW-OB32	MW-OB32_20180919	09/19/18	0.95	0.00	177	7.54	16.64	0.0
E-5	MW-OB32	MW-OB32_20190320	03/20/19	0.53	7.92	332	7.83	7.54	0.0
E-5	MW-OB32	MW-OB32_20190910	09/10/19	1.11	0.00	164	8.16	23.14	4.3
E-5	MW-OB32	MW-OB32_20200326	03/26/20	0.67	2.82	247	7.35	14.45	0.0
E-5	MW-OB32	MW-OB32_20201028	10/28/20	1.40	0.67	187	7.99	11.61	0.8
E-5	MW-OB33	MW-OB33-20151208	12/08/15	0.63	1.61	156	9.12	12.16	0.0
E-5	MW-OB33	MW-OB33_20160726	07/26/16	0.53	0.82	265	8.35	17.05	620.0
E-5	MW-OB33	MW-OB33_20161201	12/01/16	0.56	4.19	190	8.09	14.43	152.0
E-5	MW-OB33	MW-OB33_20170302	03/02/17	0.74	3.83	158	8.32	6.91	4.7
E-5	MW-OB33	MW-OB33_20170622	06/22/17	0.85	0.00	233	9.37	14.54	0.0
E-5	MW-OB33	MW-OB33_20170725	07/25/17	0.45	0.00	132	7.38	18.45	0.0
E-5	MW-OB33	MW-OB33_20170913	09/13/17	0.47	1.82	-134	11.26	17.86	0.6
E-5	MW-OB33	MW-OB33_20171214	12/14/17	0.52	1.96	241	6.45	10.26	1.6
E-5	MW-OB33	MW-OB33_20180321	03/21/18	0.69	2.40	199	8.91	6.68	2.5
E-5	MW-OB33	MW-OB33_20180614	06/14/18	0.74	0.00	261	10.31	12.99	1.0
E-5	MW-OB33	MW-OB33_20180919	09/19/18	0.49	1.35	274	8.04	14.86	0.0
E-5	MW-OB33	MW-OB33_20190320	03/20/19	0.49	3.14	302	9.36	7.61	4.0
E-5	MW-OB33	MW-OB33_20190910	09/10/19	0.37	2.09	238	10.11	25.22	2.6
E-5	MW-OB33	MW-OB33_20200326	03/26/20	0.79	2.92	245	8.82	8.95	1.2
E-5	MW-OB33	MW-OB33_20201028	10/28/20	0.61	5.05	-67	9.69	12.82	3.3
F-5	MW-OB34	MW-OB34-20151208	12/08/15	5.81	7.81	-235	7.69	10.88	0.9
F-5	MW-OB34	MW-OB34_20160726	07/26/16	3.03	0.00	-45	7.08	21.31	0.0
F-5	MW-OB34	MW-OB34_20161201	12/01/16	3.47	0.73	-145	6.74	11.42	0.0
F-5	MW-OB34	MW-OB34_20170302	03/02/17	0.89	5.45	6	6.13	8.46	0.0
F-5	MW-OB34	MW-OB34_20170622	06/22/17	1.65	0.00	-24	6.93	24.67	0.0
F-5	MW-OB34	MW-OB34_20170725	07/25/17	1.61	3.56	95	7.30	13.49	2.6
F-5	MW-OB34	MW-OB34_20170913	09/13/17	2.48	1.32	-72	8.16	15.67	0.0
F-5	MW-OB34	MW-OB34_20171214	12/14/17	2.36	0.00	142	6.14	8.98	9.9
F-5	MW-OB34	MW-OB34_20180321	03/21/18	1.89	0.47	11	6.95	5.89	0.0
F-5	MW-OB34	- ⁽²⁾	06/14/18	-	-	-	-	-	-
F-5	MW-OB34	MW-OB34_20180919	09/19/18	2.74	0.00	-22	6.96	20.96	0.0
F-5	MW-OB34	MW-OB34_20190320	03/20/19	0.78	0.00	121	6.50	7.99	0.0
F-5	MW-OB34	MW-OB34_20190910	09/10/19	1.89	0.00	-17	7.06	23.33	6.1
F-5	MW-OB34	MW-OB34_20200326	03/26/20	0.67	0.00	118	6.86	12.27	0.2
F-5	MW-OB34	MW-OB34_20201028	10/28/20	3.19	1.32	44	6.93	11.37	0.9
D-5	SUMP A	Sump_A_20160726	07/26/16	0.76	3.84	247	7.86	20.37	38.1
D-5	SUMP A	SUMP A_20161130	11/30/16	1.29	10.03	183	7.17	10.92	0.0
D-5	SUMP A	Sump_A_20170228	02/28/17	0.46	3.90	180	5.86	17.70	85.4
D-5	SUMP A	Sump_A_20170425	04/25/17	0.94	4.67	67	8.19	10.20	0.3
D-5	SUMP A	Sump_A_20170621	06/21/17	0.90	11.09	259	10.36	16.32	0.0
D-5	SUMP A	Sump_A_20170724	07/24/17	0.81	11.52	258	6.94	14.48	340
D-5	SUMP A	Sump_A_20170912	09/12/17	0.98	2.38	118	7.46	16.03	10.9
D-5	SUMP A	Sump_A_20171212	12/12/17	1.44	4.17	164	7.90	10.52	13.7
D-5	SUMP A	Sump_A_20180322	03/22/18	0.45	7.29	86	7.27	12.82	329
D-5	SUMP A	Sump_A_20180614	06/14/18	0.85	27.53	155	8.20	13.31	6.4
D-5	SUMP A	Sump_A_20180918	09/18/18	1.12	6.73	84	7.98	19.58	31.8
D-5	SUMP A	Sump_A_20181211	12/11/18	1.27	3.33	155	7.73	11.69	1.7
D-5	SUMP A	SumpA_20190320	03/20/19	0.60	4.61	252	8.25	11.81	4.2
D-5	SUMP A	SumpA_20190618	06/18/19	0.73	18.36	303	8.26	15.44	0.0
D-5	SUMP A	SumpA_20190912	09/12/19	0.30	3.97	166	7.36	18.53	1.0
D-5	SUMP A	SumpA_20191210	12/10/19	1.09	12.35	228	7.76	11.06	0.0
D-5	SUMP A	SumpA_20200325	03/25/20	0.57	3.31	264	8.16	11.68	3.9

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Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
D-5	SUMP A	SumpA_20200617	06/17/20	0.01	5.96	452	7.68	44.06	0.0
D-5	SUMP A	SUMP-A_20201028	10/28/20	0.83	2.78	126	8.33	11.36	0.1
F-5	SUMP B	Sump_B_20160726	07/26/16	0.38	4.28	235	6.54	21.18	0.0
F-5	SUMP B	SUMPB_20161130	11/30/16	0.36	7.33	180	5.99	10.12	1.8
F-5	SUMP B	SUMPB_20170228	02/28/17	0.43	4.86	183	6.10	18.08	0.2
F-5	SUMP B	SUMPB_20170621	06/21/17	0.48	9.64	247	10.52	19.17	0.0
F-5	SUMP B	SUMPB_20170724	07/24/17	0.30	8.41	279	7.92	17.16	0.4
F-5	SUMP B	SUMPB_20170912	09/12/17	0.92	5.42	-5	6.81	21.55	0.0
F-5	SUMP B	SUMPB_20171212	12/12/17	0.63	5.27	178	7.00	10.85	1.7
F-5	SUMP B	SUMPB_20180322	03/22/18	1.03	6.64	189	7.52	12.72	42.2
F-5	SUMP B	SUMPB_20180614	06/14/18	0.26	5.50	232	7.96	19.79	3.5
F-5	SUMP B	SUMPB_20180918	09/18/18	0.42	7.05	185	7.90	22.15	2.9
F-5	SUMP B	SUMPB_20181210	12/10/18	0.74	14.70	335	8.46	8.87	0.5
F-5	SUMP B	SUMPB_20190320	03/20/19	0.60	6.35	277	8.10	13.11	8.4
F-5	SUMP B	SUMPB_20190618	06/18/19	0.55	14.34	285	8.22	20.22	0.0
F-5	SUMP B	SUMPB_20190912	09/12/19	0.34	8.56	262	8.04	20.35	3.1
F-5	SUMP B	SUMPB_20191210	12/10/19	0.68	27.73	102	7.32	8.21	0.0
F-5	SUMP B	SUMPB_20200325	03/25/20	0.64	9.46	247	7.72	10.31	0.3
F-5	SUMP B	SUMPB_20200617	06/17/20	1.19	8.45	153	7.44	17.33	0.0
F-5	SUMP B	SUMP-B_20201028	10/28/20	0.38	5.59	169	8.07	12.78	1.6
Shallow Bedrock									
B-4	AW-A2	AW-A2-20151209	12/09/15	1.32	0.61	-138	7.40	10.49	0.0
B-4	AW-A2	AW-A2_20160728	07/28/16	0.95	0.00	-203	7.83	18.80	0.0
B-4	AW-A2	AW-A2_20161129	11/29/16	1.31	0.80	-179	6.86	9.33	0.0
B-4	AW-A2	AW-A2_20170228	02/28/17	1.20	1.50	-151	6.74	9.69	0.0
B-4	AW-A2	AW-A2_20170620	06/20/17	0.92	0.00	-142	7.68	16.45	0.0
B-4	AW-A2	AW-A2_20170914	09/14/17	0.81	1.41	-221	8.04	13.14	0.3
B-4	AW-A2	AW-A2_20171214	12/14/17	1.15	0.00	-156	7.87	7.99	2.5
B-4	AW-A2	AW-A2_20180321	03/21/18	0.90	0.00	-187	7.49	9.08	0.0
B-4	AW-A2	AW-A2_20180613	06/13/18	0.96	0.00	-168	7.17	13.85	0.6
B-4	AW-A2	AW-A2_20180918	09/19/18	0.52	0.00	-143	8.33	16.80	6.8
B-4	AW-A2	AW-A2_20190911	09/11/19	0.91	0.00	-57	7.90	17.00	9.1
C-5	AW-A10	AW-A10_20150729	07/29/15	1.29	0.41	-222	8.22	16.29	2.1
C-5	AW-A10	AW-A10-20151209	12/09/15	1.40	0.87	-235	8.08	10.78	0.0
C-5	AW-A10	AW-A10_20160728	07/28/16	1.25	0.00	-155	8.52	16.65	4.3
C-5	AW-A10	AW-A10_20161202	12/02/16	1.50	1.08	-253	8.29	13.12	9.1
C-5	AW-A10	AW-A10_20170301	03/01/17	2.03	0.92	-216	7.08	10.29	3.5
C-5	AW-A10	AW-A10_20170621	06/21/17	1.63	1.53	-45	8.64	13.69	1.9
C-5	AW-A10	AW-A10_20170915	09/15/17	1.72	0.00	-217	7.61	16.95	0.0
C-5	AW-A10	AW-A10_20171213	12/13/17	1.78	0.36	-133	7.24	9.17	8.0
C-5	AW-A10	AW-A10_20180322	03/22/18	1.63	0.00	-158	7.51	12.68	4.7
C-5	AW-A10	AW-A10_20180614	06/14/18	1.48	0.00	-85	7.60	13.71	9.6
C-5	AW-A10	AW-A10_20180920	09/20/18	1.57	0.00	-108	7.35	13.89	9.2
C-5	AW-A10	AW-A10_20180912	09/12/19	1.46	0.00	25	7.36	14.91	9.2
D-5	AW-A11	AW-A11_20150730	07/30/15	1.04	0.39	54	8.65	16.50	0.6
D-5	AW-A11	AW-A11-20151209	12/09/15	1.15	2.45	-30	8.77	11.39	0.0
D-5	AW-A11	AW-A11_20160728	07/28/16	0.86	0.00	56	9.01	16.87	0.0
D-5	AW-A11	AW-A11_20161202	12/02/16	0.85	0.86	3	8.67	11.47	0.0
D-5	AW-A11	AW-A11_20170301	03/01/17	1.18	1.00	-19	8.34	11.03	0.0
D-5	AW-A11	AW-A11_20170621	06/21/17	0.77	0.00	63	8.53	15.40	0.0
D-5	AW-A11	AW-A11_20170724	07/24/17	0.56	0.00	89	9.64	14.76	1.2
D-5	AW-A11	AW-A11_20170914	09/14/17	0.80	0.00	-212	8.84	16.01	0.0
D-5	AW-A11	AW-A11_20171212	12/12/17	0.76	4.61	-154	8.80	8.92	8.8
D-5	AW-A11	AW-A11_20180320	03/20/18	0.75	0.00	-104	8.80	11.31	0.0
D-5	AW-A11	AW-A11_20180614	06/14/18	0.50	0.00	69	8.81	16.85	2.1
D-5	AW-A11	AW-A11_20180919	09/19/18	0.53	3.56	94	8.84	14.71	0.0

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Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
D-5	AW-A11	AW-A11_20190319	03/19/19	0.43	0.00	-18	8.70	11.51	0.0
D-5	AW-A11	AW-A11_20190912	09/12/19	0.61	0.00	242	8.63	13.96	4.9
D-5	AW-A11	AW-A11_20200324	03/24/20	0.59	0.00	70	8.90	9.02	4.1
D-5	AW-A11	AW-C11_20201027	10/27/20	0.85	0.56	-39	8.82	11.60	0.0
E-5	AW-A14	AW-A14_20150730	07/30/15	0.83	0.83	-4	8.74	15.72	1.7
E-5	AW-A14	AW-A14-20151209	12/09/15	0.64	8.96	-165	8.78	10.21	0.0
E-5	AW-A14	AW-A14_20160727	07/27/16	0.61	0.00	-77	7.36	15.16	0.0
E-5	AW-A14	AW-A14_20161130	11/30/16	0.95	1.41	-191	7.39	9.74	0.0
E-5	AW-A14	AW-A14_20170228	02/28/17	1.00	0.79	-244	8.29	12.55	0.0
E-5	AW-A14	AW-A14_20170621	06/21/17	0.86	0.00	-91	8.21	13.90	0.0
E-5	AW-A14	AW-A14_20170914	09/14/17	0.77	0.96	-170	9.68	13.95	0.0
E-5	AW-A14	AW-A14_20171212	12/12/17	1.05	0.00	-152	7.97	10.97	2.3
E-5	AW-A14	AW-A14_20180322	03/22/18	0.86	0.30	-186	8.31	9.06	0.0
E-5	AW-A14	AW-A14_20180614	06/14/18	0.80	0.00	-82.00	9.17	19	0.80
E-5	AW-A14	AW-A14_20180919	09/19/18	0.73	0.00	-138	9.08	15.21	1.7
E-5	AW-A14	AW-A14_20181211	12/11/18	1.21	6.49	-80	8.52	9.62	2.8
E-5	AW-A14	AW-A14_20190320	03/20/19	0.50	5.71	-87	8.32	11.18	8.2
E-5	AW-A14	AW-A14_20190618	06/18/19	0.75	0.00	-212	8.52	11.26	1.8
E-5	AW-A14	AW-A14_20190912	09/12/19	0.90	0.00	-134	8.76	12.62	4.3
E-5	AW-A14	AW-A14_20191209	12/09/19	1.20	4.30	-14	8.31	7.27	0.0
E-5	AW-A14	AW-A14_20200324	03/24/20	0.68	0.00	-154	8.58	10.48	0.0
E-5	AW-A14	AW-A14_20200617	06/17/20	1.11	0.27	297	7.70	13.87	-0.6
E-5	AW-A14	AW-A14_20201027	10/27/20	1.21	0.52	-94	8.22	11.35	0.8
C-4	AW-A15	AW-A15_20150724	07/24/15	1.45	6.26	-112	6.95	15.94	5.1
C-4	AW-A15	AW-A15-20151209	12/09/15	1.25	0.71	-155	7.20	10.18	0.0
C-4	AW-A15	AW-A15_20160728	07/28/16	1.04	0.08	-83	6.46	19.73	0.0
C-4	AW-A15	AW-A15_20161130	11/30/16	0.94	0.77	-149	6.66	9.78	2.8
C-4	AW-A15	AW-A15_20170301	03/01/17	1.21	0.99	-253	5.73	12.36	1.5
C-4	AW-A15	AW-A15_20170620	06/20/17	1.10	0.00	-76	9.36	13.67	0.0
C-4	AW-A15	AW-A15_20170912	09/12/17	1.10	0.00	-148	7.34	12.64	4.4
C-4	AW-A15	AW-A15_20171211	12/11/17	1.05	0.00	-94	7.00	10.07	0.0
C-4	AW-A15	AW-A15_20180319	03/19/18	0.71	0.61	-89	7.05	10.63	0.0
C-4	AW-A15	AW-A15_20180613	06/13/18	0.71	0.02	-73	7.21	18.43	0.0
C-4	AW-A15	AW-A15_20180918	09/18/18	0.66	0.00	-90	7.85	15.60	5.3
C-4	AW-A15	AW-A15_20190911	09/11/19	0.93	0.00	-78	7.02	15.40	8.8
B-5	MW-25S	MW-25S_20150728	07/28/15	0.82	0.90	-100	7.94	16.30	1.2
B-5	MW-25S	MW-25S-20151210	12/10/15	1.21	1.52	-124	7.78	13.36	0.0
B-5	MW-25S	MW-25S_20160728	07/28/16	1.17	0.28	-88	6.90	16.53	41.7
B-5	MW-25S	MW-25S_20161129	11/29/16	1.33	0.75	-196	7.95	9.79	0.0
B-5	MW-25S	MW-25S_20170301	03/01/17	1.09	0.62	-286	8.04	12.98	0.1
B-5	MW-25S	MW-25S_20170620	06/20/17	1.23	0.00	-205	10.75	14.01	0.0
B-5	MW-25S	MW-25S_20170915	09/15/17	0.50	1.89	-2	9.09	16.33	0.1
B-5	MW-25S	MW-25S_20171213	12/13/17	1.05	5.54	-155	8.56	9.12	0.6
B-5	MW-25S	MW-25S_20180322	03/22/18	1.00	0.00	-242	8.39	9.92	0.0
B-5	MW-25S	MW-25S_20180614	06/14/18	0.67	0.00	-134	8.57	15.37	4.1
B-5	MW-25S	MW-25S_20180920	09/20/18	0.24	1.69	134	7.91	14.56	0.3
B-5	MW-25S	MW-25S_20190911	09/11/19	1.21	0.40	-167	8.28	12.72	0.0
B-5	MW-25S	MW-25S_20201028	10/27/20	0.69	0.00	-296	8.80	9.87	1.0
Intermediate Bedrock									
B-4	AW-B2	AW-B2_20150723	07/23/15	1.50	0.49	-157	7.33	12.96	1.7
B-4	AW-B2	DUP-M1_20150723	07/23/15	-	-	-	-	-	-
B-4	AW-B2	AW-B2-20151210	12/10/15	1.61	1.28	-174	7.24	10.26	0.0
B-4	AW-B2	AW-B2_20160728	07/28/16	0.40	0.00	-179	7.24	18.75	0.0
B-4	AW-B2	AW-B2_20161129	11/29/16	0.36	2.26	-116	6.33	9.10	0.0
B-4	AW-B2	AW-B2_20170228	02/28/17	0.20	0.82	-157	6.32	13.33	0.0
B-4	AW-B2	AW-B2_20170621	06/21/17	0.24	6.97	165	6.93	14.22	13.9

Table 3
Field-Monitored Parameters
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Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
B-4	AW-B2	AW-B2_20170914	09/14/17	0.17	1.17	-248	10.30	13.52	2.4
B-4	AW-B2	AW-B2_20171214	12/14/17	0.35	0.00	-196	7.71	7.39	3.0
B-4	AW-B2	AW-B2_20180321	03/21/18	0.28	0.00	-151	7.43	9.16	9.0
B-4	AW-B2	AW-B2_20180614	06/14/18	0.30	0.00	-154	7.64	17.42	9.4
B-4	AW-B2	AW-B2_20180918	09/18/18	0.81	0.00	-135	7.53	16.20	8.2
B-4	AW-B2 ⁽⁷⁾	AW-B2_20190912	09/12/19	0.38	3.44	246	7.70	14.66	41.1
E-5	AW-B4	AW-B4_20150731	07/31/15	2.53	5.85	-34	7.15	17.33	1.0
E-5	AW-B4	AW-B4_20151209	12/09/15	2.85	0.98	-120	6.87	8.12	0.0
E-5	AW-B4	AW-B4_20160729	07/29/16	1.10	0.00	-7	7.30	25.62	0.0
E-5	AW-B4	AW-B4_20161130	11/30/16	0.66	2.83	21	6.95	10.31	3.2
E-5	AW-B4	AW-B4_20170302	03/02/17	0.93	9.32	-54	6.92	8.75	0.0
E-5	AW-B4	AW-B4_20170621	06/21/17	0.83	0.00	-124	7.21	18.67	0.0
E-5	AW-B4	AW-B4_20190319	03/19/19	0.61	0.39	228	6.87	7.15	8.2
E-5	AW-B4	AW-B4_20170913	09/13/17	0.76	0.00	-40	7.50	22.47	2.9
E-5	AW-B4	AW-B4_20171214	12/14/17	0.84	0.00	-18	7.00	6.45	8.3
E-5	AW-B4	AW-B4_20180321	03/21/18	0.91	0.00	-108	7.30	9.14	0.0
E-5	AW-B4	AW-B4_20180613	06/13/18	0.89	0.05	-117	6.90	17.14	0.6
E-5	AW-B4	AW-B4_20180918	09/18/18	0.60	5.65	144	8.36	19.71	9.2
E-5	AW-B4	AW-B4_20181211	12/11/18	0.74	0.00	292	7.18	8.62	2.2
E-5	AW-B4	AW-B4_20190319	03/19/19	0.61	0.39	228	6.87	7.15	8.2
E-5	AW-B4	AW-B4_20190618	06/18/19	0.97	3.03	248	7.25	16.17	1.7
E-5	AW-B4	AW-B4_20190910	09/10/19	0.88	0.00	50	7.63	14.85	1.6
E-5	AW-B4	AW-B4_20191210	12/10/19	0.83	0.00	38	7.70	10.38	0.0
E-5	AW-B4	AW-B4_20200324	03/24/20	0.81	7.51	47	7.82	7.35	3.6
E-5	AW-B4	AW-B4_20200616	06/16/20	1.11	11.14	103	7.57	19.62	1.1
E-5	AW-B4	AW-B4_20201027	10/27/20	1.21	8.10	198	7.68	11.16	2.1
C-5	AW-B11	AW-B11_20150727	07/27/15	0.81	0.82	-90	8.76	13.90	0.0
C-5	AW-B11	AW-B11_20151209	12/09/15	1.02	6.95	-227	10.12	10.90	0.7
C-5	AW-B11	AW-B11_20160728	07/28/16	0.64	0.00	-202	10.66	20.22	13.3
C-5	AW-B11	AW-B11_20161201	12/01/16	1.05	1.73	-302	10.53	11.21	0.0
C-5	AW-B11	AW-B11_20170301	03/01/17	1.14	0.69	-263	8.93	11.05	1.8
C-5	AW-B11	AW-B11_20170622	06/22/17	1.59	0.00	-192	7.85	16.27	0.70
C-5	AW-B11	AW-B11_20170914	09/14/17	0.56	0.00	-328	8.58	24.11	5.6
C-5	AW-B11	AW-B11_20171213	12/13/17	1.70	0.94	-230	7.68	6.09	4.0
C-5	AW-B11	AW-B11_20180322	03/22/18	0.30	0.00	-225	9.32	9.82	2.0
C-5	AW-B11	AW-B11_20180614	06/14/18	1.26	0.00	-162	8.80	14.09	3.7
C-5	AW-B11	AW-B11_20180920	09/20/18	0.95	0.13	-192	8.73	17.40	1.4
C-5	AW-B11	AW-B11_20190911	09/11/19	3.02	0.23	-139	7.44	21.66	0.0
F-4	AW-B17	AW-B17_20150806	08/06/15	1.26	0.23	-192	7.24	14.89	14.0
F-4	AW-B17	AW-B17_20151209	12/09/15	1.23	0.61	-131	6.87	10.23	0.0
F-4	AW-B17	AW-B17_20160727	07/27/16	0.97	0.00	-100	6.46	20.53	0.0
F-4	AW-B17	AW-B17_20161130	11/30/16	0.89	0.81	-174	6.97	10.64	2.5
F-4	AW-B17	AW-B17_20170301	03/01/17	1.15	0.62	-266	7.30	10.99	1.8
F-4	AW-B17	AW-B17_20170620	06/20/17	0.95	0.00	-119	7.67	15.39	1.3
F-4	AW-B17	AW-B17_20170912	09/12/17	1.03	0.30	-175	7.88	18.25	14.1
F-4	AW-B17	AW-B17_20171214	12/14/17	2.52	0.55	-165	6.46	7.06	3.5
F-4	AW-B17	AW-B17_20180320	03/20/18	0.98	0.00	-204	7.41	10.67	0.0
F-4	AW-B17	AW-B17_20180613	06/13/18	-0.81	0.00	-100	7.97	18.60	7.7
F-4	AW-B17	AW-B17_20180918	09/18/18	0.75	5.25	-71	7.58	21.09	9.7
F-4	AW-B17	AW-B17_20190319	03/19/19	0.67	0.00	-110	7.84	11.08	0.0
F-4	AW-B17	AW-B17_20190911	09/11/19	1.00	0.00	-95	7.68	16.17	9.7
F-4	AW-B17	AW-B17_20200325	03/25/20	0.74	0.00	-150	7.83	11.52	9.9
C-4	AW-B18	AW-B18_20150724	07/24/15	0.81	0.75	-74	6.85	12.15	0.0
C-4	AW-B18	AW-B18_20151207	12/07/15	1.25	1.60	-143	7.10	9.59	0.0
C-4	AW-B18	AW-B18_20160726	07/26/16	1.09	0.00	-80	6.42	16.49	2.6
C-4	AW-B18	AW-B18_20161130	11/30/16	1.45	1.76	-144	6.49	11.92	12.5

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Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
C-4	AW-B18	AW-B18_20170302	03/02/17	1.36	6.22	-184	6.69	9.44	0.0
C-4	AW-B18	AW-B18_20170620	06/20/17	1.29	0.00	-74	8.32	17.62	3.5
C-4	AW-B18	AW-B18_20170913	09/13/17	1.19	0.00	-221	7.36	14.77	2.5
C-4	AW-B18	AW-B18_20171211	12/11/17	1.23	0.00	-100	6.91	10.66	2.9
C-4	AW-B18	AW-B18_20180322	03/22/18	1.25	0.35	-129	7.26	10.72	4.7
C-4	AW-B18	AW-B18_20180612	06/12/18	1.14	2.57	-71	7.90	15.95	22.2
C-4	AW-B18	AW-B18_20180917	09/17/18	1.27	0.00	-95	7.16	18.51	5.8
C-4	AW-B18	AW-B18_20190909	09/09/19	0.89	3.06	-28	7.61	14.74	0.0
C-4	AW-B18	AW-B18_20201026	10/26/20	1.08	0.00	-77	7.37	10.09	3.8
C-4	AW-B18	DUP_20201026	10/26/20	1.08	0.00	-77	7.37	10.09	3.8
F-4	AW-B20	AW-B20_20150805	08/05/15	2.14	8.57	-107	8.57	16.58	0.0
F-4	AW-B20	AW-B20_20161130	11/30/16	1.96	1.34	-94	8.36	10.35	0.0
F-4	AW-B20	AW-B20_20170301	03/01/17	2.23	0.81	-220	6.94	11.17	0.3
F-4	AW-B20	AW-B20_20170621	06/21/17	2.20	0.00	149	8.46	17.53	0.0
F-4	AW-B20	AW-B20_20170913	09/13/17	2.21	0.00	-208	8.43	17.06	0.3
F-4	AW-B20	AW-B20_20171212	12/12/17	2.13	0.00	-95	7.95	9.20	2.1
F-4	AW-B20	AW-B20_20180320	03/20/18	2.18	0.00	-119	8.26	9.55	0.0
F-4	AW-B20	AW-B20_20180613	06/13/18	2.02	0.00	-109	8.58	17.35	3.1
F-4	AW-B20	AW-B20_20180918	09/18/18	2.40	0.00	-130	8.44	18.19	3.2
F-4	AW-B20	AW-B20_20190911	09/09/19	2.41	0.00	-78	8.19	22.14	0.2
F-5	EW-B5	EW-B5_20160726	07/28/16	2.59	1.60	788	8.17	21.25	10.3
F-5	EW-B5	EW-B5_20161202	12/02/16	2.50	0.81	47	7.89	11.08	0.0
F-5	EW-B5	EW-B5_20170118	01/18/17	3.49	1.01	-5	8.55	10.03	1.8
F-5	EW-B5	EW-B5_20170301	03/01/17	2.77	0.84	-74	6.89	13.36	3.0
F-5	EW-B5	EW-B5_20170621	06/21/17	3.32	0.00	-17	9.37	16.32	0.0
F-5	EW-B5	EW-B5_20170725	07/25/17	3.59	0.00	220	8.59	11.98	0.7
F-5	EW-B5	EW-B5_20170914	09/14/17	3.62	0.26	106	8.65	12.99	1.9
F-5	EW-B5	DUP_20170914	09/14/17	3.62	0.26	106	8.65	12.99	1.9
F-5	EW-B5	EW-B5_20171212	12/12/17	3.90	0.44	62	8.46	9.48	5.3
F-5	EW-B5	DUP_20171212	12/12/17	3.90	0.44	62	8.46	9.48	5.3
F-5	EW-B5	EW-B5_20180322	03/22/18	3.68	0.59	-104	9.16	11.91	1.2
F-5	EW-B5	DUP01_20180322	03/22/18	3.68	0.59	-104	9.16	11.91	1.2
F-5	EW-B5	EW-B5_20180613	06/13/18	3.52	0.00	-25	9.10	12.06	1.8
F-5	EW-B5	DUP01_20180613	06/13/18	3.52	0.00	-25	9.10	12.06	1.8
F-5	EW-B5	EW-B5_20180918	09/18/18	3.42	1.48	83	8.53	13.41	0.8
F-5	EW-B5	DUP_20180918	09/18/18	3.42	1.48	83	8.53	13.41	0.8
F-5	EW-B5	EW-B5_20181210	12/10/18	1.99	0.00	180	8.30	8.70	1.6
F-5	EW-B5	DUP_20181210	12/10/18	1.99	0.00	180	8.30	8.70	1.6
F-5	EW-B5	EW-B5_20190114	01/14/19	2.73	3.00	266	6.89	12.24	0.0
F-5	EW-B5	EW-B5_20190320	03/20/19	2.43	11.80	81	8.14	14.83	0.3
F-5	EW-B5	DUP_20190320	03/20/19	2.43	11.80	81	8.14	14.83	0.3
F-5	EW-B5 ⁽⁶⁾	EW-B5_20190618	06/18/19	2.54	14.88	302	8.16	17.42	0.0
F-5	EW-B5 ⁽⁶⁾	DUP_D_20190618	06/18/19	2.54	14.88	302	8.16	17.42	0.0
F-5	EW-B5	EW-B5_20190912	09/12/19	2.43	7.02	105	8.17	17.28	0.0
F-5	EW-B5	DUP-02_20190912	09/12/19	2.43	7.02	105	8.17	17.28	0.0
F-5	EW-B5	EW-B5_20191001	10/01/19	2.61	1.94	172	7.14	17.40	0.7
F-5	EW-B5	EW-B5_20191111	11/11/19	2.58	0.00	124	8.33	10.96	3.7
F-5	EW-B5	EW-B5_20191210	12/10/19	2.57	5.10	131	9.38	11.81	0.0
F-5	EW-B5	DUP-01_20191210	12/10/19	2.57	5.10	131	9.38	11.81	0.0
F-5	EW-B5	EW-B5_20200325	03/25/20	2.41	12.39	149	8.13	11.92	0.7
F-5	EW-B5	DUP_20200325	03/25/20	2.41	12.39	149	8.13	11.92	0.7
F-5	EW-B5 ⁽⁸⁾	EW-B5_2020617	06/17/20	2.18	1.47	384	7.27	15.73	-1.1
F-5	EW-B5	EW-B5_20201028	10/28/20	2.67	3.83	-6	8.28	10.75	1.5
F-5	EW-B5	DUP-02_20201028	10/28/20	2.67	3.83	-6	8.28	10.75	1.5
B-5	MW-25D	MW-25D_20150728	07/28/15	0.52	0.26	-101	7.27	19.94	0.0
B-5	MW-25D	MW-25D-20151210	12/10/15	1.07	1.91	-151	6.90	11.36	0.0

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ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
B-5	MW-25D	MW-25_20160728	07/28/16	0.83	0.00	-94	6.43	19.88	0.9
B-5	MW-25D	MW-25_20161129	11/29/16	0.72	2.30	-119	7.06	9.37	0.0
B-5	MW-25D	MW-25D-20170228	02/28/17	0.78	0.63	-196	7.21	11.00	0.0
B-5	MW-25D	MW-25D-20170621	06/21/17	0.93	0.00	-91	10.72	12.86	0.0
B-5	MW-25D	MW-25D-20170915	09/15/17	1.02	1.37	-200	7.45	25.00	1.2
B-5	MW-25D	MW-25D-20171213	12/13/17	1.04	8.90	-139	7.81	8.07	8.0
B-5	MW-25D	MW-25D-20180322	03/22/18	0.98	0.00	-186	7.27	12.41	4.6
B-5	MW-25D	MW-25D-20180614	06/14/18	0.87	0.00	-127	7.58	17.70	0.2
B-5	MW-25D	MW-25D-20180920	09/20/18	0.93	0.00	-124	7.54	16.63	3.1
B-5	MW-25D	MW-25D-20190912	09/12/19	0.46	0.00	213	7.60	13.86	9.7
B-3	MW-36D	MW-36D_20150805	08/05/15	4.37	0.40	-304	10.00	15.39	4.2
B-3	MW-36D	MW-36D-20151207	12/07/15	4.36	0.22	-353	10.07	9.37	0.0
B-3	MW-36D	MW-36D_20160726	07/26/16	3.71	0.00	-284	9.89	14.62	0.0
B-3	MW-36D	MW-36D_20161130	11/30/16	3.07	2.29	-193	8.57	10.73	2.0
B-3	MW-36D	MW-36D_20170302	03/02/17	3.39	0.98	-336	8.41	7.09	0.0
B-3	MW-36D	DUP_20170302	03/02/17	3.39	0.98	-336	8.41	7.09	0.0
B-3	MW-36D	MW-36D_20170620	06/20/17	3.53	0.00	-303	11.98	17.75	0.0
B-3	MW-36D	DUP3_20170620	06/20/17	3.53	0.00	-303	11.98	17.75	0.0
B-3	MW-36D	MW-36D_20170913	09/13/17	4.51	0.00	-397	10.49	14.10	2.4
B-3	MW-36D	DUP-01_20170913	09/13/17	4.51	0.00	-397	10.49	14.10	2.4
B-3	MW-36D	MW-36D_20171211	12/11/17	4.18	0.48	-194	8.64	8.17	1.9
B-3	MW-36D	DUP-01_20171211	12/11/17	4.18	0.48	-194	8.64	8.17	1.9
B-3	MW-36D	MW-36D_20180322 ⁽⁵⁾	03/22/18	4.10	0.39	-333	10.16	11.64	1.5
B-3	MW-36D	DUP02_20180322 ⁽⁵⁾	03/22/18	4.10	0.39	-333	10.16	11.64	1.5
B-3	MW-36D	MW-36D_20180612 ⁽⁵⁾	06/12/18	4.18	0.00	-304	11.21	15.49	0.0
B-3	MW-36D	DUP1_20180612 ⁽⁵⁾	06/12/18	4.18	0.00	-304	11.21	15.49	0.0
B-3	MW-36D	MW-36D_20180917	09/17/18	3.94	0.00	-235	10.49	15.96	4.7
B-3	MW-36D	DUP_20180917	09/17/18	3.94	0.00	-235	10.49	15.96	4.7
B-3	MW-36D	DUP_20190909	09/10/19	4.57	0.00	-229	10.44	12.58	0.0
Deep Bedrock									
B-5	AW-C2	AW-C2_20150806	08/06/15	1.72	0.52	-104	6.66	15.51	5.3
B-5	AW-C2	AW-C2-20151210	12/10/15	1.89	4.17	-179	7.10	11.57	5.6
B-5	AW-C2	AW-C2_20160728	07/28/16	1.62	0.00	-140	7.22	17.33	0.0
B-5	AW-C2	AW-C2_20161129	11/29/16	1.73	1.09	-141	6.59	10.10	0.0
B-5	AW-C2	AW-C2_20170228	02/28/17	1.73	0.44	-205	6.00	10.50	0.0
B-5	AW-C2	AW-C2_20170621	06/21/17	1.53	0.00	-93	7.49	16.68	0.0
B-5	AW-C2	AW-C2_20170913	09/13/17	1.56	6.47	-230	7.17	14.08	2.8
B-5	AW-C2	AW-C2_20171213	12/13/17	1.57	0.00	-148	7.40	7.26	2.8
B-5	AW-C2	AW-C2_20180322	03/22/18	1.35	0.81	-140	7.22	10.14	1.0
B-5	AW-C2	AW-C2_20180612	06/12/18	1.23	7.33	-57	7.28	12.80	2.6
B-5	AW-C2	AW-C2_20180918	09/18/18	1.64	1.15	-112	6.99	12.95	5.0
B-5	AW-C2	AW-C2_20190910	09/10/19	1.60	0.00	-12	7.08	13.08	0.0
B-5	AW-C2	AW-C2_20201027	10/27/20	1.26	5.06	-119	7.50	10.12	2.6
E-5	AW-C11	AW-C11_20150806	08/06/15	1.55	0.55	-75	6.80	14.27	7.5
E-5	AW-C11	AW-C11-20151210	12/10/15	1.40	6.00	-42	6.25	10.87	16.3
E-5	AW-C11	AW-C11_20160728	07/28/16	1.61	0.00	72	5.71	17.90	38.1
E-5	AW-C11	AW-C11_20161130	11/30/16	1.61	0.58	-16	6.37	10.94	20.4
E-5	AW-C11	AW-C11_20170915	09/15/17	1.50	0.00	-48	7.16	19.99	0.5
E-5	AW-C11	AW-C11_20171212	12/12/17	1.58	0.43	37	6.69	7.34	9.9
E-5	AW-C11	AW-C11_20180322	03/22/18	1.43	0.00	-51	7.20	12.38	7.1
E-5	AW-C11	AW-C11_20180614	06/14/18	1.49	0.00	134	7.45	14.52	5.7
E-5	AW-C11	AW-C11_20180919	09/19/18	1.65	0.78	103	7.07	19.97	6.0
E-5	AW-C11	AW-C11_20181211	12/11/18	1.07	5.00	-1	7.58	9.08	8.3
E-5	AW-C11	AW-C11_20190321	03/21/19	1.14	0.43	-39	7.43	11.34	2.9
E-5	AW-C11	AW-C11_20190618	06/18/19	1.29	0.00	73	6.60	13.46	4.7
E-5	AW-C11	AW-C11_20190911	09/11/19	2.60	0.58	33	5.48	14.31	7.3

Table 3
Field-Monitored Parameters
Groundwater and Surface Water Monitoring Report
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Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
E-5	AW-C11	AW-C11_20191210	12/10/19	1.86	6.41	-48	6.62	8.54	4.8
E-5	AW-C11	AW-C11_20200324	03/24/20	1.24	0.94	-80	7.04	7.88	5.0
E-5	AW-C11	AW-C11-20200616	06/16/20	1.59	0.22	366	6.60	14.94	8.2
E-5	AW-C11	AW-C11_20201027	10/27/20	1.17	0.00	14	7.57	10.75	2.9
Surface Water									
I4	SW-01	SW-01_20150729	07/29/15	0.08	4.84	217	6.03	23.03	1.3
I4	SW-01	SW-01-20151208	12/08/15	0.09	11.57	164	6.07	1.78	0.0
I4	SW-01	SW-01_20160726	07/26/16	0.13	6.39	227	6.02	25.66	26.4
I4	SW-01	SW-01_20161201	12/01/16	0.11	7.07	199	4.87	15.56	0.0
I4	SW-01	SW-01_20170227	02/27/17	0.08	18.61	171	5.28	3.05	0.0
I4	SW-01	SW-01_20170622	06/22/17	0.12	5.87	187	6.44	22.02	0.3
I4	SW-01	SW-01_20170724	07/24/17	0.10	6.76	234	4.77	19.75	0.9
I4	SW-01	SW-01_20170912	09/12/17	0.25	5.57	108	6.39	16.80	0.8
I4	SW-01	SW-01_20171213	12/13/17	0.16	13.11	264	5.47	0.68	4.0
I4	SW-01	SW-01_20180320	03/20/18	0.08	10.50	142	5.83	2.42	0.0
I4	SW-01	SW-01_20180612	06/12/18	0.17	7.45	64	9.05	25.04	0.0
I4	SW-01	SW-01_20180920	09/20/18	0.21	6.10	280	5.75	16.34	0.4
I4	SW-01	SW-01_20190321	03/21/19	0.07	12.62	333	5.25	4.90	4.9
I4	SW-01	SW-01_20190912	09/12/19	0.10	2.87	192	5.86	16.91	3.4
I4	SW-01	SW-01_20200325	03/25/20	0.10	12.64	110	9.17	8.07	0.0
I4	SW-01	SW-1_20201029	10/29/20	0.17	9.25	356	5.37	10.93	0.0
I4	SW-01	SW-1-20201029	10/29/20	0.17	9.25	356	5.37	10.93	0.0
F5	SW-02	SW-02_20150729	07/29/15	0.08	3.51	205	6.47	25.97	1.0
F5	SW-02	SW-02-20151208	12/08/15	0.09	10.91	137	6.81	5.68	0.0
F5	SW-02	SW-02_20160726	07/26/16	0.91	5.71	281	4.96	32.45	0.0
F5	SW-02	SW-02_20161201	12/01/16	0.12	8.14	248	4.73	10.80	0.0
F5	SW-02	SW-02_20170622	06/22/17	0.11	5.76	144	8.04	24.93	1.5
F5	SW-02	SW-02_20170724	07/24/17	0.07	6.93	192	8.00	17.70	1.5
F5	SW-02	SW-02_20170912	09/12/17	0.24	6.26	112	6.71	17.82	0.5
F5	SW-02	SW-02_20171213	12/13/17	0.10	10.36	275	6.11	1.58	3.5
F5	SW-02	SW-02_20180320	03/20/18	0.09	9.40	128	6.23	3.80	0.0
F5	SW-02	SW-02_20180612	06/12/18	0.13	6.65	120	9.54	24.63	0.0
F5	SW-02	SW-02_20180920	09/20/18	0.14	6.99	126	6.55	21.15	3.7
F5	SW-02	SW-02_20190321	03/21/19	0.07	8.52	373	5.35	5.32	4.6
F5	SW-02	SW-02_20190912	09/12/19	0.10	4.79	198	6.00	17.39	5.4
F5	SW-02	SW-02_20200325	03/25/20	0.08	13.24	146	8.16	6.57	0.0
F5	SW-02	SW-2_20201029	10/29/20	0.15	12.45	346	5.66	9.44	0.0
F5	SW-02	SW-2-20201029	10/29/20	0.15	12.45	346	5.66	9.44	0.0
E5	SW-03	SW-03_20150729	07/29/15	0.07	3.67	170	6.74	27.77	0.0
E5	SW-03	SW-03-20151208	12/08/15	0.07	14.31	139	6.52	6.63	0.0
E5	SW-03	SW-03_20160726	07/26/16	0.04	5.80	131	8.03	31.62	0.0
E5	SW-03	SW-03_20161201	12/01/16	0.12	11.01	171	5.91	5.32	0.0
E5	SW-03	SW-03_20170118	01/18/17	0.10	13.13	27	8.55	1.82	0.2
E5	SW-03	SW-03_20170227	02/27/17	0.05	12.24	118	6.09	3.68	1.0
E5	SW-03	SW-03_20170425	04/25/17	0.08	8.39	199	5.47	19.53	0.0
E5	SW-03	SW-03_20170622	06/22/17	0.08	5.93	126	7.39	28.59	0.7
E5	SW-03	SW-03_20170724	07/24/17	0.06	7.18	196	8.12	17.01	1.0
E5	SW-03	SW-03_20170912	09/12/17	0.22	5.78	-10	6.92	21.71	0.1
E5	SW-03	SW-03_20171213	12/13/17	0.08	10.21	191	6.45	4.50	0.0
E5	SW-03	SW-03_20180320	03/20/18	0.07	9.32	124	6.25	5.07	0.0
E5	SW-03	DUP-20180320	03/20/18	0.07	9.32	124	6.25	5.07	0.0
E5	SW-03	SW-03_20180612	06/12/18	0.14	8.23	195	10.00	24.65	0.0
E5	SW-03	DUP02-20180612	06/12/18	0.14	8.23	195	10.00	24.65	0.0
E5	SW-03	SW-03_20180920	09/20/18	0.14	8.29	93	7.07	23.77	0.2
E5	SW-03	DUP-20180920	09/20/18	0.14	8.29	93	7.07	23.77	0.2
E5	SW-03	SW-03_20190321	03/21/19	0.05	7.17	312	6.01	6.55	4.3

Table 3
Field-Monitored Parameters
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Former Ciba-Geigy Facility, Glens Falls, NY

Map Grid	Sample	Sample	Sample	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Temperature	Turbidity
ID	Location	ID ⁽¹⁾	Date	mS/cm	mg/L	mV	s.u.	°C	NTU
E5	SW-03	DUP-20190321	03/21/19	0.05	7.17	312	6.01	6.55	4.3
E5	SW-03	SW-03_20190912	09/12/19	0.10	6.06	183	6.14	17.60	4.9
E5	SW-03	DUP-20190912	09/12/19	0.10	6.06	183	6.14	17.60	4.9
E5	SW-03	SW-03_20200325	03/25/20	0.07	4.88	166	7.56	6.45	1.1
E5	SW-03	DUP-20200325	03/25/20	0.07	4.88	166	7.56	6.45	1.1
E5	SW-03	SW-3_20201029	10/29/20	0.16	11.70	292	5.98	9.62	0.0
E5	SW-03	SW-3-20201029	10/29/20	0.16	11.70	292	5.98	9.62	0.0
E5	SW-03	DUP_20201029	10/29/20	0.16	11.70	292	5.98	9.62	0.0
E5	SW-03	DUP-20201029	10/29/20	0.16	11.70	292	5.98	9.62	0.0
A5	SW-04	SW-04_20150729	07/29/15	0.07	4.34	152	6.82	32.57	0.0
A5	SW-04	SW-04-20151208	12/08/15	0.08	9.76	139	6.92	5.24	0.0
A5	SW-04	SW-04_20160726	07/26/16	0.09	8.01	121	7.79	27.91	0.0
A5	SW-04	SW-04_20161201	12/01/16	0.12	9.51	162	5.76	6.51	0.0
A5	SW-04	SW-04_20170622	06/22/17	0.09	5.82	127	9.23	25.01	0.0
A5	SW-04	SW-04_20170912	09/12/17	0.22	5.32	-15	7.04	23.25	0.0
A5	SW-04	SW-04_20171213	12/13/17	0.08	10.95	206	6.41	3.56	0.0
A5	SW-04	SW-04_20180320	03/20/18	0.06	6.71	130	6.09	15.22	0.0
A5	SW-04	SW-04_20180612	06/12/18	0.13	5.70	81	9.29	30.19	0.1
A5	SW-04	SW-04_20180920	09/20/18	0.14	8.16	87	7.01	24.95	1.2
A5	SW-04	SW-04_20190321	03/21/19	0.05	9.47	261	6.55	4.68	2.9
A5	SW-04	SW-04_20190912	09/12/19	0.09	6.95	190	6.37	22.89	3.0
A5	SW-04	SW-04_20200325	03/25/20	0.07	14.27	169	7.51	6.01	0.0
A5	SW-04	SW-4_20201029	10/29/20	0.08	13.29	278	5.77	9.26	0.0
A5	SW-04	SW-4-20201029	10/29/20	0.08	13.29	278	5.77	9.26	0.0

Notes:

(1) = Field parameters are collected for the purpose of evaluating overall Site geochemistry. There are no Groundwater GA Standards in 6 NYCRR 703.5, Table 1 Water Quality Standards (or Water Quality Guidance Values from New York State Division of Water TOGS 1.1.1) for these parameters.

(2) = Insufficient water - field parameters not collected.

(3) = Due to low water yield, samples were collected the day following purging and turbidity levels may have increased over the course of sampling.

(4) = pH readings collected using two different probes, with one reading 14.0, and the other reading 12.77.

(5) = Sample analyzed at dilution due to a "foaming issue" with sample.

(6) = Field log erroneously noted pH = 18.16; confirmed to be 8.16 by Antea.

(7) = High turbidity despite long purging time; therefore, sample not analyzed.

(8) = Grab Sample

(9) = Insufficient water - well not sampled

" = " indicates not available/not analyzed

°C = degrees Celsius

mg/L = milligrams per liter

mS/cm = millisiemen per centimeter

mV = millivolts

NTU = nephelometric turbidity units

s.u. = standard units

Table 4
Laboratory Method Summary
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Analyte	Groundwater Quality Standard GA standard ¹ (µg/L)	Surface Water Quality Standard ¹ Class A, B, C (µg/L)	Method Number	Media	Anticipated Reporting Limit (µg/L)	Sample Container Type	Container Volume (each in mL)*	No. Containers per sample	Preservation	Holding Time
Geochemistry Parameters										
Total Dissolved Solids	not screened	not screened	SM2540C	Water	10,000	Plastic	500	1	Cool, < 6 deg. C.	7 days
Hardness	not screened	not screened	SM2340C	Water	2,000	Plastic	250	1	HNO3 to pH<2	6 Months
Dissolved Metals										
Chromium	50	calculated*	SW846 6020A	Water	1.5	Plastic	250	1	Filtration + HNO ₃ to pH<2	6 Months
Vanadium	n/a	190 A(A) 14 A(C)			2					
Hexavalent Chromium	50	16 A(A) 11 A(C)	USEPA 218.6	Water	0.3	Plastic	125	1	Filtration + NH4OH/(NH4)2SO4	28 days
Cyanide										
Total Cyanide	200	9000 H(FC)	SW846 9012B	Water	10	Plastic	250	1	NaOH to pH>12, Cool, < 6 deg. C.	14 Days
Volatile Organic Compounds										
Dichlorobenzenes (1,2-; 1,3-; and 1,4-)**	3	5	SW846 8260C	Water	1	Glass VOA	40	3	HCl to pH<2, Cool, < 6 deg. C.	14 Days
Free Available Cyanide										
Free Cyanide	n/a	5.2 A(A) 22 A(C)	OIA-1677	Water	2	Glass VOA	40	1	lead-acetate strip test for sulfide 40 mL VOA with NaOH or if sulfide detected 40 mL VOA no preservative	14 Days or 24 hrs

Notes:
1 = 6 NYCCR 703.5, Table 1 Water Quality Standards Surface Waters (or Water Quality Guidance Values from NYS Dept. of Water TOGS 1.1.1 as noted).
not screened = indicates not a site-related constituent; data used for geochemical assessment/developing surface water criteria only
n/a indicates no screening value available. Total metals criteria may be used for screening dissolved metals that have no screening value available.
A(C) = protective of fish propogation in fresh waters - applicable to dissolved phases only (acid soluble phase for vanadium)
A(A) = protective of fish survival in fresh waters - applicable to dissolved phases only (acid soluble phase for vanadium)
* = indicates A(A) and A(C) values are calculated based on hardness
GA = protective of fresh groundwaters for drinking water source
H(FC) = protective of human health for fish consumption
** = GA standard for dichlorobenzenes (DCB) applies individually to isomers (1,2-DCB; 1,3-DCB; and 1,4-DCB). Surface water A(C) value applies to the sum of the isomers.
DCB method will allow reporting to less than 3 µg/L with applicable qualification

µg/L = micrograms per liter
deg C = degrees Celsius
HCl = hydrochloric acid
HNO3 = nitric acid
mL = milliliters

NaOH = sodium hydroxide
VOA = volatile organic analysis
NH4OH = ammonium hydroxide
(NH4)2SO4 = ammonium sulfate

Table 5
Groundwater Analytical Results – Chromium and Cyanide
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			Chromium, hexavalent µg/L	Chromium, total µg/L	Cyanide µg/L
NYSDEC Class GA Groundwater Quality Standards (µg/l) ⁽¹⁾			50	50	200
Location ID	Sample Name	Sample Date ⁽⁵⁾			
AW-A11	AW-A11_20180320	3/20/2018	670	680	57
AW-A11	AW-A11_20180614	6/14/2018	640	610	53
AW-A11	AW-A11_20180919	9/19/2018	300	290	56
AW-A11	AW-A11_20190319	3/19/2019	22	36	50
AW-A11	AW-A11_20190912	9/12/2019	50	64	49
AW-A11	AW-A11_20200324	3/24/2020	68	68 J	37
AW-A11	AW-A11_20201027	10/27/2020	38	41	49
AW-A14	AW-A14_20180322	3/22/2018	10 U	11	61
AW-A14	AW-A14_20180614	6/14/2018	10 U	3.1	100
AW-A14	AW-A14_20180919	9/19/2018	10 U	3.1 J	90
AW-A14	AW-A14_20181211	12/11/2018	10 U	2.8 U	73 J
AW-A14	AW-A14_20190320	3/20/2019	10 U	3.7	38 J
AW-A14	AW-A14_20190618	6/18/2019	10 U	3.6 U	46
AW-A14	AW-A14_20190912	9/12/2019	0.27 J	3.4	84
AW-A14	AW-A14_20191209	12/9/2019	0.3 U	2.8	68 J
AW-A14	AW-A14_20200324	3/24/2020	0.3 U	2.7 J	48
AW-A14	AW-A14_20200617	6/17/2020	0.31	2.9 U	51
AW-A14	AW-A14_20201027	10/27/2020	0.3 U	3.1	46
AW-B4	AW-B4_20180321	3/21/2018	33	57	190
AW-B4	AW-B4_20180613	6/13/2018	10 U	21	200
AW-B4	AW-B4_20180918	9/18/2018	24	32	200 T
AW-B4	AW-B4_20181211	12/11/2018	28 U	27	99 J
AW-B4	AW-B4_20190319	3/19/2019	10 U	10	130
AW-B4	AW-B4_20190518	6/18/2019	12	16	30
AW-B4	AW-B4_20190910	9/10/2019	0.3 J	6.7	150
AW-B4	AW-B4_20191210	12/10/2019	1.8	9.9	110 J
AW-B4	AW-B4_20200324	3/24/2020	0.84	4.6 J	96
AW-B4	AW-B4_20200616	6/16/2020	3.4 J	7.2	110
AW-B4	AW-B4_20201027	10/27/2020	3.3	7.5	110
AW-B17	AW-B17_20180320	3/20/2018	10 U	2.3	33
AW-B17	AW-B17_20180613	6/13/2018	10 U	3	30
AW-B17	AW-B17_20180918	9/18/2018	10 U	2.4 J	30
AW-B17	AW-B17_20190319	3/19/2019	10 U	3	29
AW-B17	AW-B17_20190911	9/11/2019	0.3 U	2.1	25
AW-B17	AW-B17_20200325	3/25/2020	0.3 U	2 J	22
AW-B18	AW-B18_20150724	7/24/2015	10 U	4.4	206
AW-B18	AW-B18-20151207	12/7/2015	--	--	214
AW-B18	AW-B18-20151207F	12/7/2015	10 U	2.1 U	--
AW-B18	AW-B18_20160726	7/26/2016	10 U	1.8 U	270
AW-B18	AW-B18_20161130	11/30/2016	10 UJ	2.7	450
AW-B18	AW-B18_20170228	2/28/2017	10 U	2.5	200
AW-B18	AW-B18_20170620	6/20/2017	10 U	1.2 J	270
AW-B18	AW-B18_20170913	9/13/2017	50 U	2.8	260
AW-B18	AW-B18_20171211	12/11/2017	10 U	13	200 J
AW-B18	AW-B18_20180319	3/19/2018	10 U	2.1	170
AW-B18	AW-B18_20180612	6/12/2018	10 U	0.61 J	--
AW-B18	AW-B18_20180917	9/17/2018	10 U	5 U	240
AW-B18	AW-B18_20190909	9/9/2019	0.3 U	1.1 J	210
AW-B18	AW-B18_20201026	10/26/2020	0.3 U	3	140 J
AW-B18	DUP_20201026	10/26/2020	0.3 U	1.2 J	120
AW-C2	AW-C2_20150806	8/6/2015	10 U	19	19
AW-C2	AW-C2_20151210	12/10/2015	10 U	73.9	22
AW-C2	AW-C2_20160728	7/28/2016	10 U	13	10
AW-C2	AW-C2_20161129	11/29/2016	10 U	13	23
AW-C2	AW-C2_20170228	2/28/2017	10 U	27	42
AW-C2	AW-C2_20170621	6/21/2017	10 U	21	18
AW-C2	AW-C2_20170913	9/13/2017	10 U	13	29
AW-C2	AW-C2_20171213	12/13/2017	10 U	15	31
AW-C2	AW-C2_20180322	3/22/2018	10 U	22	32

Table 5
Groundwater Analytical Results – Chromium and Cyanide
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			Chromium, hexavalent µg/L 50	Chromium, total µg/L 50	Cyanide µg/L 200
NYSDEC Class GA Groundwater Quality Standards (µg/l) ⁽¹⁾					
Location ID	Sample Name	Sample Date ⁽⁵⁾			
AW-C2	AW-C2_20180612	6/12/2018	10 U	17 J	25 J
AW-C2	AW-C2_20180918	9/18/2018	10 U	21	48
AW-C2	AW-C2_20190910	9/10/2019	0.3 U	17	26
AW-C2	AW-C2_20201027	10/27/2020	0.3 U	12	24
AW-C11	AW-C11_20180322	3/22/2018	6200	6900	130
AW-C11	AW-C11_20180614	6/14/2018	7100	6900	140
AW-C11	AW-C11_20180919	9/19/2018	5300	4900	120
AW-C11	AW-C11_20181211	12/11/2018	3200	3800	54 J
AW-C11	AW-C11_20190320	3/20/2019	260	830	83 J
AW-C11	AW-C11_20190618	6/18/2019	4700	5400	88
AW-C11	AW-C11_20190911	9/11/2019	1000 J	1300	68 J
AW-C11	AW-C11_20191210	12/10/2019	0.48	100	56
AW-C11	AW-C11_20200324	3/24/2020	0.32	57 J	39
AW-C11	AW-C11_20200616	6/16/2020	3000 J	3200	65 J
AW-C11	AW-C11_20201027	10/27/2020	1600	1600	52
EW-B5 DUP	DUP01_20180322	3/22/2018	130000	140000	760
EW-B5	EW-B5_20180322	3/22/2018	130000	140000	640
EW-B5 DUP	DUP_20180613	6/13/2018	130000 J	100000	520
EW-B5	EW-B5_20180613	6/13/2018	130000 J	100000	580
EW-B5 DUP	DUP_20180918	9/18/2018	110000	110000	540
EW-B5	EW-B5_20180918	9/18/2018	120000	110000	550
EW-B5 DUP	DUP_20181210	12/10/2018	35000	38000 J	87
EW-B5	EW-B5_20181210	12/10/2018	37000	24000 J	87
EW-B5	EW-B5_20190114	1/14/2019	46000	68000	490
EW-B5	EW-B5_20190218	2/18/2019	52000	53000	420
EW-B5 DUP	DUP_20190320	3/20/2019	150 J	9600	320 J
EW-B5	EW-B5_20190320	3/20/2019	6.6 J	9800	350 J
EW-B5	EW-B5_20190618	6/18/2019	46000	58000	910 J
EW-B5 DUP	DUP_20190618	6/18/2019	48000	61000	920
EW-B5 DUP	DUP-02_20190912	9/12/2019	38000 J	47000	280
EW-B5	EW-B5_20190912	9/12/2019	39000 J	48000	280
EW-B5	EW-B5_20191001	10/1/2019	39000	40000	210
EW-B5	EW-B5_20191111	11/11/2019	60000	67000	350 J
EW-B5 DUP	DUP-01_20191210	12/10/2019	56000	54000	300 J
EW-B5	EW-B5_20191210	12/10/2019	52000	53000	300 J
EW-B5 DUP	DUP 2_20200325	3/25/2020	41000	52000 J	300
EW-B5	EW-B5_20200325	3/25/2020	40000	49000 J	290
EW-B5 DUP	DUP03_20200617	6/17/2020	39000 J	48000	210
EW-B5	EW-B5_20200617	6/17/2020	38000 J	49000	180
EW-B5 DUP	EW-B5_20201028	10/28/2020	42000	43000	190
EW-B5	DUP-02_20201028	10/28/2020	41000	44000	210
IP-4	IP-4_20150723	7/23/2015	10 U	8.1	1380
IP-4	IP-4-20151209	12/9/2015	10 UJ	3.3 U	843
IP-4	IP-4_20160727	7/27/2016	10 U	3.9	710
IP-4	IP-4_20161129	11/29/2016	10 U	2	760
IP-4	IP-4_20170301	3/1/2017	10 U	3.9	640
IP-4	IP-4_20170621	6/21/2017	19 U	7.4	1200
IP-4	IP-4_20170913	9/13/2017	10 U	5.4	1400
IP-4	IP-4_20171213	12/13/2017	10 U	5.2 U	1100
IP-4	IP-4_20180321	3/21/2018	10 U	2.5	830
IP-4	IP-4_20180614	6/14/2018	10 U	13	2100
IP-4	IP-4_20180919	9/19/2018	10 U	10	2000
IP-4	IP-4_20190911	9/11/2019	0.97 J	24	3500
IP-4	IP-4_20201026	10/26/2020	0.29 J	7.3	930
MW-25S	MW-25S_20150728	7/28/2015	10 U	6.6	90

Table 5
Groundwater Analytical Results – Chromium and Cyanide
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			Chromium, hexavalent µg/L	Chromium, total µg/L	Cyanide µg/L
NYSDEC Class GA Groundwater Quality Standards (µg/l) ⁽¹⁾			50	50	200
Location ID	Sample Name	Sample Date ⁽⁵⁾			
MW-25S	MW-25S_20151210	12/10/2015	10 U	4.7 J	89
MW-25S	MW-25S_20160728	7/28/2016	10 U	3.9	66
MW-25S	MW-25S_20161129	11/29/2016	10 U	3.3	58
MW-25S	MW-25S_20170301	3/1/2017	10 U	7.3	84
MW-25S	MW-25S_20170620	6/20/2017	10 U	8.6	130
MW-25S	MW-25S_20170915	9/15/2017	250	220	27
MW-25S	MW-25S_20171213	12/13/2017	26	56	160
MW-25S	MW-25S_20180322	3/22/2018	10 U	20	220
MW-25S	MW-25S_20180614	6/14/2018	10 U	10	140
MW-25S	MW-25S_20180920	9/20/2018	10 U	5.4	10 U
MW-25S	MW-25S_20190911	9/11/2019	1.5 J	22	390 J
MW-25S	MW-25S_20201028	10/28/2020	4.7	18	220
MW-26	MW-26_20150727	7/27/2015	10 U	7.8	74
MW-26	MW-26_20151208	12/8/2015	10 U	7.1	68
MW-26	MW-26_20160727	7/27/2016	10 U	3.2	77
MW-26-DUP	DUP1_20160727	7/27/2016	10 UJ	3.4	71
MW-26	MW-26_20161129	11/29/2016	10 U	3.1	81
MW-26	MW-26_20170228	2/28/2017	5.1 J	7.3	94
MW-26	MW-26_20170620	6/20/2017	10 U	8.4	63
MW-26	MW-26_20170912	9/12/2017	10 U	3.1	95
MW-26	MW-26_20171212	12/12/2017	10 U	5 U	75
MW-26	MW-26_20180320	3/20/2018	36	39	87
MW-26	MW-26_20180612	6/12/2018	10 U	11 J	62 J
MW-26	MW-26_20180918	9/18/2018	10 U	3.2 J	89
MW-26	MW-26_20190909	9/9/2019	0.3 U	2.9	70
MW-26	MW-26_20201027	10/27/2020	0.3 U	2.9	56
MW-28	MW-28_20160727	7/27/2016	10 U	24	9.1 J
MW-28	MW-28_20170228	2/28/2017	10 U	17	350
MW-28	MW-28_20180321	3/21/2018	13	140	--
MW-28	MW-28_20190910	9/10/2019	0.98 U	27	49
MW-31	MW-31_20180321	3/21/2018	10 U	8.1	180
MW-31	MW-31_20180613	6/13/2018	10 U	9.5	220
MW-31	MW-31_20180919	9/19/2018	10 U	11	230
MW-31	MW-31_20190319	3/19/2019	10 U	11	220
MW-31	MW-31_20190910	9/10/2019	0.49 J	8.2	160
MW-31	MW-31_20200326	3/26/2020	0.3 U	8.9 J	180
MW-31	MW-31_20201027	10/27/2020	0.39	8.1	210
MW-OB14	MW-OB14_20180321	3/21/2018	3400	3700	710
MW-OB14	MW-OB14_20180613	6/13/2018	4500	4300	1200
MW-OB14	MW-OB14_20180918	9/18/2018	2700	4500	800
MW-OB14	MW-OB14_20181210	12/10/2018	2000	3700 J	610
MW-OB14	MW-OB14_20190321	3/21/2019	290	420	270
MW-OB14	MW-OB14_20190618	6/18/2019	120	160	10 U
MW-OB14	MW-OB14_20190912	9/12/2019	860	1300	770
MW-OB14	MW-OB14_20191209	12/9/2019	610	670	290 J
MW-OB14	MW-OB14_20200325	3/25/2020	31	42 J	170
MW-OB14	MW-OB14_20200616	6/16/2020	44	54	200
MW-OB14	MW-OB14_20201029	10/29/2020	5000	5500	440
MW-OB25	MW-OB25_20180320	3/20/2018	400	360	58
MW-OB25	MW-OB25_20180613	6/13/2018	630	570	110
MW-OB25	MW-OB25_20180919	9/19/2018	670	760	110
MW-OB25	MW-OB25_20181210	12/10/2018	270	280 J	23
MW-OB25	MW-OB25_20190319	3/19/2019	380	410	20
MW-OB25	MW-OB25_20190619	6/19/2019	250 J	230 J	68 J
MW-OB25	MW-OB25_20190912	9/12/2019	780	790	170
MW-OB25	MW-OB25_20191209	12/9/2019	290	320	69 J
MW-OB25	MW-OB25_20200324	3/24/2020	180	190 J	34
MW-OB25	MW-OB25_20200617	6/17/2020	360 J	420	77
MW-OB25	MW-OB25_20201028	10/28/2020	2400	2600	360

(2)

Table 5
Groundwater Analytical Results – Chromium and Cyanide
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			Chromium, hexavalent µg/L	Chromium, total µg/L	Cyanide µg/L
NYSDEC Class GA Groundwater Quality Standards (µg/l) ⁽¹⁾			50	50	200
Location ID	Sample Name	Sample Date ⁽⁵⁾			
MW-OB26	MW-OB26 20180320	3/20/2018	10 U	6.3	300
MW-OB26	MW-OB26 20180614	6/14/2018	33	140	300
MW-OB26	MW-OB26 20180919	9/19/2018	6.2 J	5.6	250
MW-OB26	MW-OB26 20181211	12/11/2018	62	50	160 J
MW-OB26	MW-OB26 20190320	3/20/2019	24	37	93 J
MW-OB26	MW-OB26 20190619	6/19/2019	26 J	18 J	65 J
MW-OB26	MW-OB26 20190912	9/12/2019	18	22	260
MW-OB26	MW-OB26 20191210	12/10/2019	29	34	190 J
MW-OB26	MW-OB26 20200326	3/26/2020	25	32 J	160
MW-OB26	MW-OB26 20200617	6/17/2020	40	20	140
MW-OB26	MW-OB26 20201029	10/29/2020	12	21	--
MW-OB26	MW-OB26 20201030	10/30/2020	--	--	220
MW-OB30	MW-OB30 20180321	3/21/2018	17000	19000	600
MW-OB30	MW-OB30 20180614	6/14/2018	9500	9500	430
MW-OB30	MW-OB30 20180919	9/19/2018	4400	4000	240
MW-OB30	MW-OB30 20190320	3/20/2019	290	290	29 J
MW-OB30	MW-OB30 20190910	9/10/2019	29 J	97	26
MW-OB30	MW-OB30 20200326	3/26/2020	2400	3300 J	75
MW-OB30	MW-OB30 20201029	10/29/2020	140	220	23 U
MW-OB31	MW-OB31 20180321	3/21/2018	40	300	160
MW-OB31	MW-OB31 20180614	6/14/2018	10 U	270	66
MW-OB31	MW-OB31 20180919	9/19/2018	7.4 J	140	45
MW-OB31	MW-OB31 20190320	3/20/2019	10	200	68 J
MW-OB31	MW-OB31 20190910	9/10/2019	4.8 J	110	39
MW-OB31	MW-OB31 20200326	3/26/2020	13	240 J	77
MW-OB31	MW-OB31 20201028	10/28/2020	5.5	110	48
MW-OB32	MW-OB32 20180321	3/21/2018	400	460	1200
MW-OB32	MW-OB32 20180614	6/14/2018	10 U	57	5400
MW-OB32	MW-OB32 20180919	9/19/2018	10 U	59	5300
MW-OB32	MW-OB32 20190320	3/20/2019	450	460	880 J
MW-OB32	MW-OB32 20190910	9/10/2019	1 UJ	92	9400
MW-OB32	MW-OB32 20200326	3/26/2020	280	300 J	2500
MW-OB32	MW-OB32 20201028	10/28/2020	1.5	110	6800
MW-OB33	MW-OB33 20180321	3/21/2018	1900	2100	370
MW-OB33	MW-OB33 20180614	6/14/2018	5200	4900	730
MW-OB33	MW-OB33 20180919	9/19/2018	2500	2200	180
MW-OB33	MW-OB33 20190320	3/20/2019	1100	1300	390 J
MW-OB33	MW-OB33 20190910	9/10/2019	2300 J	2500	270
MW-OB33	MW-OB33 20200326	3/26/2020	2100	2300 J	280
MW-OB33	MW-OB33 20201028	10/28/2020	45	2500	140
MW-OB34	MW-OB34 20180321	3/21/2018	10 U	95	550
MW-OB34	MW-OB34 20180615	6/15/2018	10 U	53 B	650
MW-OB34	MW-OB34 20180919	9/19/2018	10 U	95	550
MW-OB34	MW-OB34 20190320	3/20/2019	21	130	330 J
MW-OB34	MW-OB34 20190910	9/10/2019	0.3 U	61	1200
MW-OB34	MW-OB34 20200326	3/26/2020	67	160 J	590
MW-OB34	MW-OB34 20201028	10/28/2020	0.88	100	590
SUMP A	SUMP A 20180322	3/22/2018	400	470	1300
SUMP A	SUMP-A 20180614	6/14/2018	120	150	470
SUMP A	SUMP-A 20180918	9/18/2018	1100	1200	660
SUMP A	SUMP-A 20181211	12/11/2018	410	410	680 J
SUMP A	SUMP-A 20190320	3/20/2019	350	420	420 J
SUMP A	SUMP-A 20190618	6/18/2019	350	380	70
SUMP A	SUMP-A 20190912	9/12/2019	260	320	840
SUMP A	SUMP-A 20191210	12/10/2019	290	320	370 J
SUMP A	SUMP-A 20200325	3/25/2020	35	380 J	410
SUMP A	SUMP-A 20200617	6/17/2020	300 J	360	360
SUMP A	SUMP-A 20201028	10/28/2020	200	190	380

Table 5
Groundwater Analytical Results – Chromium and Cyanide
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			Chromium, hexavalent µg/L	Chromium, total µg/L	Cyanide µg/L
NYSDEC Class GA Groundwater Quality Standards (µg/l) ⁽¹⁾			50	50	200
Location ID	Sample Name	Sample Date ⁽⁵⁾			
SUMP B	SUMP B_20180322	3/22/2018	160	190	1200
SUMP B	SUMP-B_20180614	6/14/2018	620	610	340
SUMP B	SUMP-B_20180918	9/18/2018	130	150	710
SUMP B	SUMP-B_20181210	12/10/2018	240	270 J	920
SUMP B	SUMP-B_20190320	3/20/2019	100	140	660 J
SUMP B	SUMP-B_20190618	6/18/2019	120	160	140
SUMP B	SUMP-B_20190912	9/12/2019	140	160	1100
SUMP B	SUMP-B_20191210	12/10/2019	140	150	460 J
SUMP B	SUMP-B_20200325	3/25/2020	170	190 J	450
SUMP B	SUMP-B_20200617	6/17/2020	130 J	140	330
SUMP B	SUMP-B_20201028	10/28/2020	96	100	280

Notes:

(1) = Groundwater GA Standard from 6 NYCRR 703.5, Table 1 Water Quality Standards (or Water Quality Guidance Values from NYS Division of Water TOGS 1.1.1). GA standards are for protective of fresh groundwaters for drinking water source. There is no GA standard for hexavalent chromium. The value of 50 µg/L is the GA standard for total chromium.

(2) = Water was ponded on the ground surface around MW-OB14, due to snow melt. The water level in MW-OB14 was approximately 9 feet lower after 1 hour of purging. Sample results may have been affected by meltwater.

(3) = Sample collected from well EW-B5 under pumping conditions.

(4) = Sample collected from well EW-B5 under non-pumping conditions.

(5) = Table includes data for 2018 to present. Historical data was included in reports previously submitted to the NYSDEC.

µg/L = micrograms per liter

BOLD value indicates concentration above GA standard

J = indicates value is estimated

U = indicates analyte was not detected above reporting limit shown

NYSDEC = New York State Department of Environmental Conservation

Table 6
Groundwater Analytical Results – Dichlorobenzenes
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

			1,2-Dichlorobenzene µg/L 3	1,3-Dichlorobenzene µg/L 3	1,4-Dichlorobenzene µg/L 3
NYSDEC Class GA Groundwater Quality Standards (µg/L) ⁽¹⁾					
Location ID	Sample Name	Sample Date ⁽²⁾			
AW-B18	AW-B18_20180322-20180322	3/22/2018	47	< 2.0 U	5
AW-B18	AW-B18_20180612-20180612	6/12/2018	20	< 2.0 U	2.1
AW-B18	AW-B18_20180917-20180917	9/17/2018	56 J	< 2.0 U	6.3
AW-B18	AW-B18_20190909	9/9/2019	36	< 1.0 U	3.7
AW-B18	DUP_20201026	10/26/2020	37	< 1 U	4.1
AW-B18	AW-B18_20201026	10/26/2020	34 J	< 1 U	3.6

Notes:

(1) = Groundwater GA Standard from 6 NYCRR 703.5, Table 1 Water Quality Standards (or Water Quality Guidance Values from NYS Division of Water TOGS 1.1.1). GA standards are for protective of fresh groundwaters for drinking water source.

(2) = Table includes data for 2018 to present. Historical data was included in reports previously submitted to the NYSDEC.

µg/L = micrograms per liter

BOLD value indicates concentration above GA standard

J = indicates value is estimated

U = indicates analyte was not detected above reporting limit shown

NYSDEC = New York State Department of Environmental Conservation

Table 7
Surface Water Analytical Results
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Chemical Name Unit Surface Water Quality Criteria A(C) ⁽¹⁾		Chromium, hexavalent µg/L 11	Chromium, total µg/L See Table 9	Cyanide (Free) µg/L 5.2	Hardness (As CaCO ₃) µg/L n/a	Total Dissolved Solids µg/L n/a	Vanadium µg/L 14
Location ID	Sample Date ⁽²⁾						
SW-01	3/20/2018	10 U	1.5 U	2 U	28000	48000	4 U
SW-01	6/12/2018	10 U	0.82 J	2 U	40000	130000	4 U
SW-01	9/20/2018	10 U	5 U	2 U	48000	110000 J	10 U
SW-01	3/21/2019	10 U	1.5 U	2 U	20000	68000	4 U
SW-01	9/12/2019	0.29 J	1.5 U	2 U	32000	330000 U	4 U
SW-01	3/25/2020	0.3 U	0.4 J	2 U	20000	38000	4 U
SW-01	10/29/2020	0.3 U	0.38 J	--	88000 U	150000 U	4 U
SW-01	10/29/2020	--	--	1.3 J	--	--	--
SW-02	3/20/2018	10 U	1.5 U	2 U	36000	87000	4 U
SW-02	6/12/2018	10 U	0.52 J	2 U	36000	100000	4 U
SW-02	9/20/2018	10 U	5 U	2 U	36000	94000 J	10 U
SW-02	3/21/2019	10 U	1.5 U	2 U	24000	67000	4 U
SW-02	9/12/2019	0.4	1.5 U	2 U	36000	330000 U	4 U
SW-02	3/25/2020	0.3 U	0.39 J	2 U	20000	35000	4 U
SW-02	10/29/2020	0.3 U	1.5 U	--	88000 U	150000 U	4 U
SW-02	10/29/2020	--	--	1.1 J	--	--	--
SW-03	3/20/2018	10 U	1.5 U	2 U	24000	78000	4 U
SW-03 DUP	3/20/2018	10 U	1.5 U	2 U	28000	89000	4 U
SW-03	6/12/2018	10 U	1.5 U	2 U	32000	100000	4 U
SW-03 DUP	6/12/2018	8.3 J	1.5 UJ	2 U	32000	110000	4 U
SW-03	9/20/2018	6.2 J	5 U	2 U	32000	81000 J	10 U
SW-03 DUP	9/20/2018	5 J	5 U	2 U	32000	100000 J	10 U
SW-03	3/21/2019	10 U	1.5 U	2 U	20000	60000	4 U
SW-03 DUP	3/21/2019	10 U	1.5 U	2 U	16000	52000	4 U
SW-03	9/12/2019	0.3 U	1.5 U	2 U	32000	330000 U	4 U
SW-03 DUP	9/12/2019	0.3 U	1.5 U	2 U	32000	330000 U	4 U
SW-03	3/25/2020	0.3 U	1.5 U	2 U	16000	6000 J	4 U
SW-03 DUP	3/25/2020	0.3 U	0.36 J	2 U	16000	18000	4 U
SW-03	10/29/2020	0.3 U	0.39 J	--	88000 U	150000 U	4 U
SW-03	10/29/2020	--	--	1.6 J	--	--	--
SW-03 DUP	10/29/2020	0.3 U	0.71 J	--	88000 U	150000 U	4 U
SW-03 DUP	10/29/2020	--	--	1 J	--	--	--
SW-04	3/20/2018	10 U	1.5 U	2 U	24000	63000	4 U
SW-04	6/12/2018	10 U	0.37 J	2 U	32000	110000	4 U
SW-04	9/20/2018	6.2 J	5 U	2 U	32000	93000 J	10 U
SW-04	3/21/2019	10 U	1.5 U	2 U	20000	56000	4 U
SW-04	9/12/2019	0.3 U	1.5 U	2 U	32000	330000 U	4 U
SW-04	3/25/2020	0.3 U	1.5 U	2 U	20000	30000	4 U
SW-04	10/29/2020	0.3 U	1.5 U	--	88000 U	150000 U	4 U
SW-04	10/29/2020	--	--	1.8 J	--	--	--

Notes:

(1) Surface water quality criteria (SWQC) from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations from NYS Division of Water TOGS 1.1.1. Hudson River is classified as Class C waters in site vicinity.

A(C) = protective of fish propagation in fresh waters - applicable to dissolved phases only (or acid soluble phase for vanadium).

(2) Table includes data for 2018 to present. Historical data was included in reports previously submitted to the NYSDEC.

µg/L = micrograms per liter

J = indicates value is estimated

CaCO₃ = calcium carbonate

U = indicates analyte was not detected above reporting limit shown

n/a = not applicable

Table 8
Equipment Blank Analytical Results
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

NYSDEC Class GA Groundwater Quality Standards		Chromium, hexavalent µg/L 50	Chromium, total µg/L 50	Cyanide µg/L 200	Cyanide (Free) µg/L	Vanadium µg/L
Sample Name	Sample Date ⁽¹⁾					
EB 20180319	3/19/2018	10 U	1.5 U	10 U	---	4 U
EB 20180320	3/20/2018	10 U	1.5 U	10 U	2 U	4 U
EB 20180321	3/21/2018	10 U	0.47 J	5.1 J	---	4 U
EB 20180322	3/22/2018	10 U	14	10 U	---	4 U
EB 20180611	6/11/2018	---	---	10 UJ	2 U	---
EB 20180612	6/12/2018	10 U	7.5 UJ	10 UJ	2 U	20 U
EB 20180613	6/13/2018	10 U	1.5 U	10 U	---	4 U
EB 20180614	6/14/2018	10 U	1.5 U	10 U	---	4 U
EB 20180615	6/15/2018	10 U	1.5 U	10 U	---	4 U
EB 20180917	9/17/2018	10 U	5 U	10 U	---	10 U
EB 20180918	9/18/2018	10 U	5 U	4.9 J	---	10 U
EB 20180919	9/19/2018	10 U	2.3 J	10 U	---	10 U
EB 20180920	9/20/2018	10 U	5 U	10 U	2 U	10 U
EB 20181210	12/10/2018	10 U	0.51 J	3.3 J	---	---
EB 20181211	12/11/2018	8.6 J	1.1 J	10 U	---	4 U
EB 20190319	3/19/2019	10 U	0.46 J	10 U	---	---
EB 20190320	3/20/2019	10 UJ	0.52 J	10 U	---	---
EB 20190321	3/21/2019	10 U	0.47 J	10 U	2 U	4 U
EB 20190618	6/18/2019	10 U	0.84 J	10 U	---	---
EB 20190619	6/19/2019	10 UJ	1.5 U	10 U	---	---
EB 20190624	6/24/2019	---	---	3.4 J	2 U	---
EB 20190909	9/9/2019	0.3 UJ	1.5 U	10 UJ	---	---
EB 20190910	9/10/2019	---	1.5 U	10 U	---	---
EB 20190911	9/11/2019	0.3 UJ	1.5 U	10 UJ	---	---
EB-20190912	9/12/2019	0.3 UJ	0.36 J	10 U	2 U	4 U
EB 20191111	11/11/2019	17	4.5	10 U	---	---
EB 20191209	12/9/2019	0.3 U	1.5 U	10 U	---	---
EB 20191210	12/10/2019	0.3 U	1 J	8.9 J	---	---
EB 20200324	3/24/2020	0.3 U	0.38 J	10 U	---	---
EB-01 20200325	3/25/2020	0.3 U	1.5 U	10 U	---	---
EB-02 20200325	3/25/2020	0.3 U	1.5 U	---	2 U	4 U
EB 20200326	3/26/2020	0.3 U	0.45 J	10 U	---	---
EB02 20200615	6/15/2020	---	---	10 U	2 U	---
EB03 20200616	6/16/2020	0.3 U	1.5 U	10 U	---	---
EB04 20200617	6/17/2020	0.3 U	0.9 J	10 U	---	---
EB 20201026	10/26/2020	0.3 U	1.5 U	10 U	---	---
EB 20201027	10/27/2020	0.3 U	0.57 J	10 U	---	---
EB 20201028	10/28/2020	0.3 U	1.5 U	10 U	---	---
EB 20201029	10/29/2020	0.3 U	1.5 U	8.2 J	---	4 U
EB-20201029	10/29/2020	---	---	---	2 U	---
EB 20201030	10/30/2020	---	---	10 U	---	---

Notes:

(1) Table includes data for 2018 to present. Historical data was included in reports previously submitted to the NYSDEC.

Dashed cells indicate that sample was not analyzed for that constituent.

µg/L = micrograms per liter

EB = equipment blank

J = indicates value is estimated

NYSDEC = New York State Department of Environmental Conservation

U = indicates analyte was not detected above reporting limit shown

Table 9
Surface Water Quality Criteria for Dissolved Chromium
Groundwater and Surface Water Monitoring Report
Main Plant Site
Former Ciba-Geigy Facility, Glens Falls, NY

Location	Sample ID	Date ⁽¹⁾	Hardness (As CaCO ₃)	Total Dissolved Solids (Residue, Filterable)	Calculated Chromium (dissolved)	
	Surface Water Quality Criteria (SWQC) ⁽²⁾		µg/L	µg/L	A(C)	A(A)
SW-01	SW-01_20180320	03/20/18	28000	48000	26	201
SW-01	SW-01_20180612	6/12/2018	40000	130000	35	269
SW-01	SW-01_20180920	9/20/2018	48000	110000	41	312
SW-01	SW-01_20190321	3/21/2019	20000	68000	20	152
SW-01	SW-01_20190912	9/12/2019	32000	48000	29	224
SW-01	SW-01_20200325	3/25/2020	20000	38000	20	152
SW-01	SW-1_20201029	10/29/2020	88000	150000	67	513
SW-02	SW-02_20180320	03/20/18	36000	87000	32	247
SW-02	SW-02_20180612	6/12/2018	36000	100000	32	247
SW-02	SW-02_20180920	9/20/2018	36000	94000	32	247
SW-02	SW-02_20190321	3/21/2019	24000	67000	23	177
SW-02	SW-02_20190912	9/12/2019	36000	62000	32	247
SW-02	SW-02_20200325	3/25/2020	20000	35000	20	152
SW-02	SW-2_20201029	10/29/2020	88000	150000	67	513
SW-03	SW-03_20180320	03/20/18	24000	78000	23	177
SW-03	SW-03_20180612	6/12/2018	32000	110000	29	224
SW-03	SW-03_20180920	9/20/2018	32000	81000	29	224
SW-03	DUP_20180920	9/20/2018	32000	100000	29	224
SW-03-DUP	SW-03_20190321	3/21/2019	16000	52000	17	127
SW-03	SW-03_20190321	3/21/2019	20000	60000	20	152
SW-03	SW-03_20190912	9/12/2019	32000	64000	29	224
SW-03-DUP	DUP-01_20190912	9/12/2019	32000	37000	29	224
SW-03	SW-03_20200325	3/25/2020	16000	6000 J	17	127
SW-03 DUP	DUP 01_20200325	3/25/2020	16000	18000	17	127
SW-03	SW-3_20201029	10/29/2020	88000	150000	67	513
SW-03 DUP	DUP_20201029	10/29/2020	88000	150000	67	513
SW-04	SW-04_20180320	03/20/18	24000	63000	23	177
SW-04	SW-04_20180612	06/12/18	32000	110000	29	224
SW-04	SW-04_20180920	09/20/18	32000	93000	29	224
SW-04	SW-04_20190321	03/21/19	20000	56000	20	152
SW-04	SW-04_20190912	09/12/19	32000	88000	29	224
SW-04	SW-04_20200325	03/25/20	20000	30000	20	152
SW-04	SW-4_20201029	10/29/2020	88000	150000	67	513

Notes:

(1) Table includes values calculated for 2018 to present. Historical calculated values were included in reports previously submitted to the NYSDEC.

(2) Surface water quality criteria (SWQC) from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations from NYS Division of Water TOGS 1.1.1. Hudson River is classified as Class C waters in site vicinity.

A(C) = protective of fish propagation in fresh waters - applicable to dissolved phases only (or acid soluble phase for vanadium).

A(A) = protective of fish survival in fresh waters - applicable to dissolved phases only (acid soluble phase for vanadium).

Calculated values based on hardness (per TOGS 1.1.1):

Chromium A(C) = $(0.86) \exp(0.819 [\ln (\text{ppm hardness})]) + 0.6848$

Chromium A(A) = $(0.316) \exp(0.819 [\ln (\text{ppm hardness})]) + 3.7256$

Chromium aquatic standard applies to dissolved form and does not include hexavalent chromium.

µg/L = micrograms per liter

NYS = New York State

NYSDEC = New York State Department of Environmental Conservation

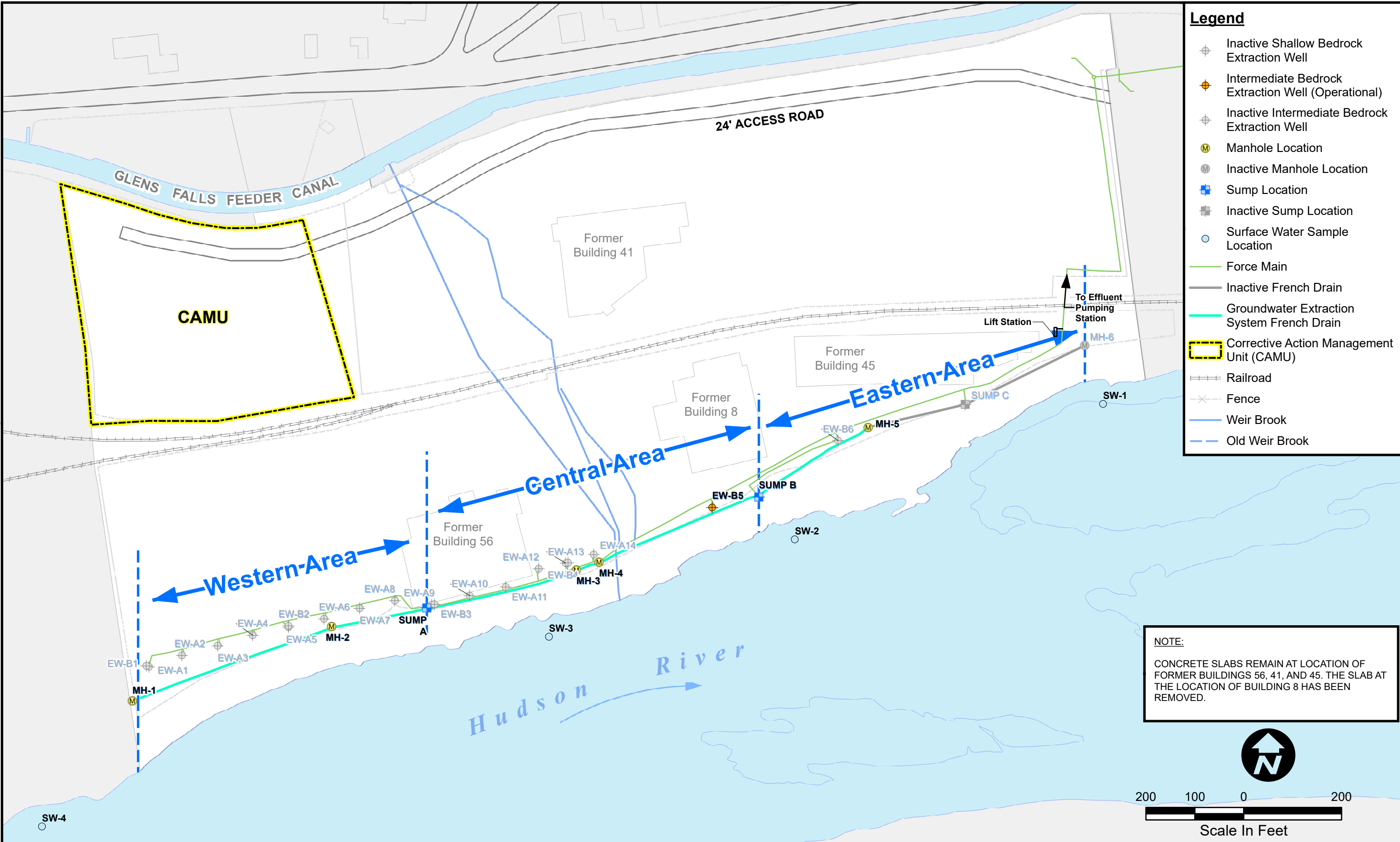
ppm = parts per million

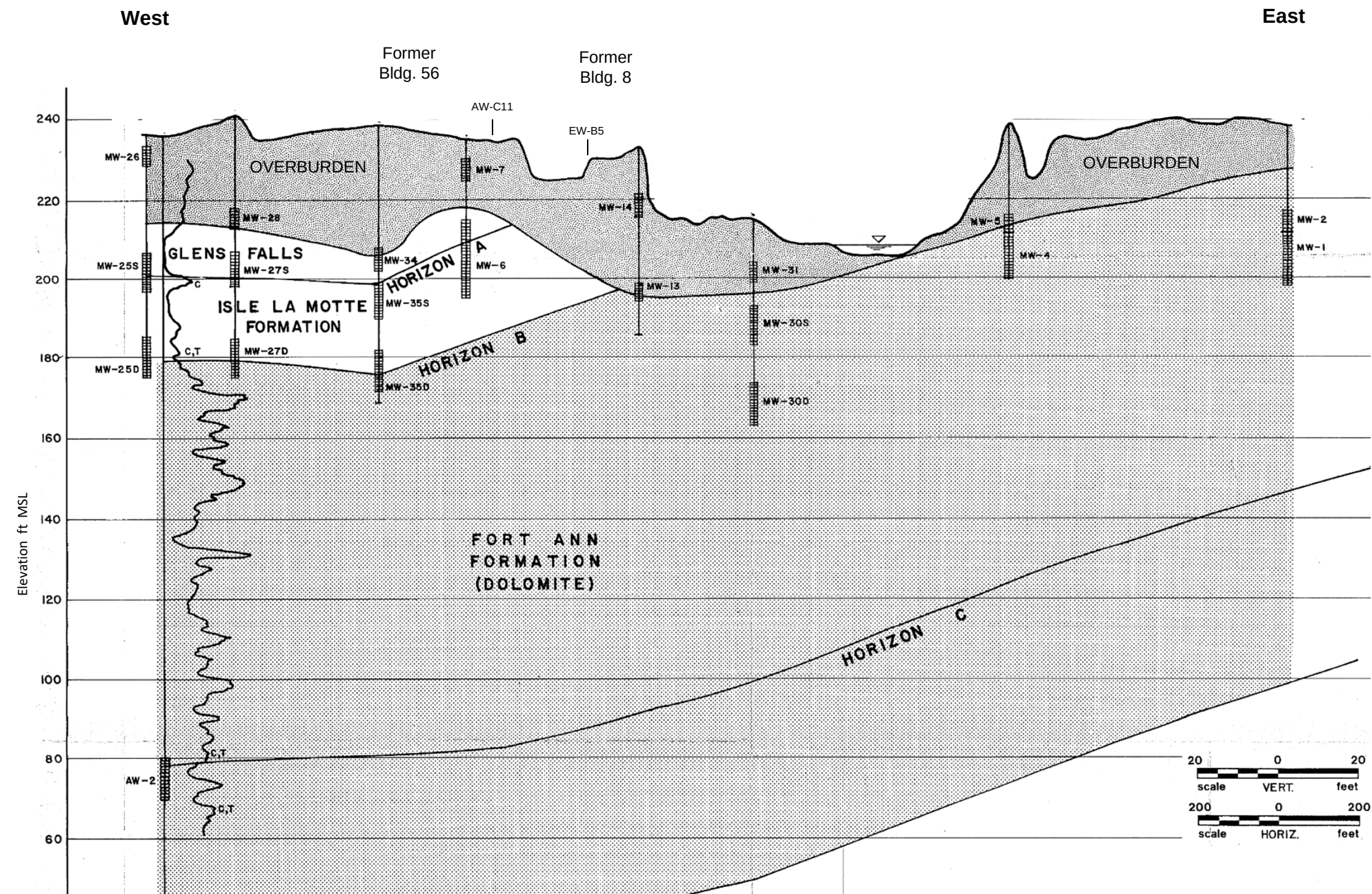
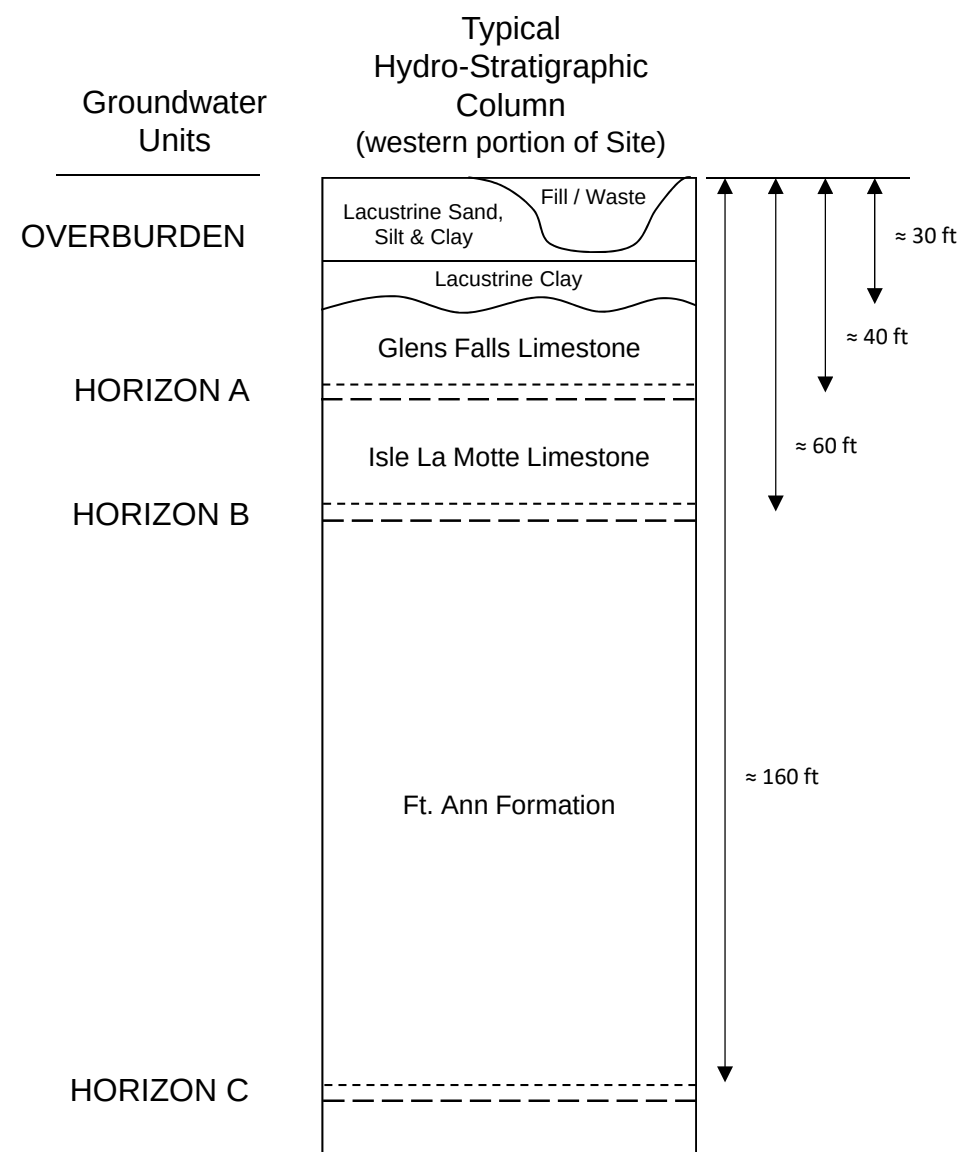
TOGS = Technical and Operational Guidance Series



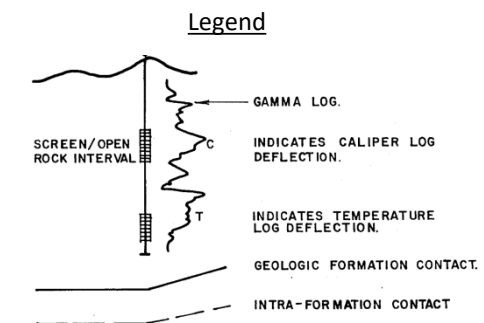
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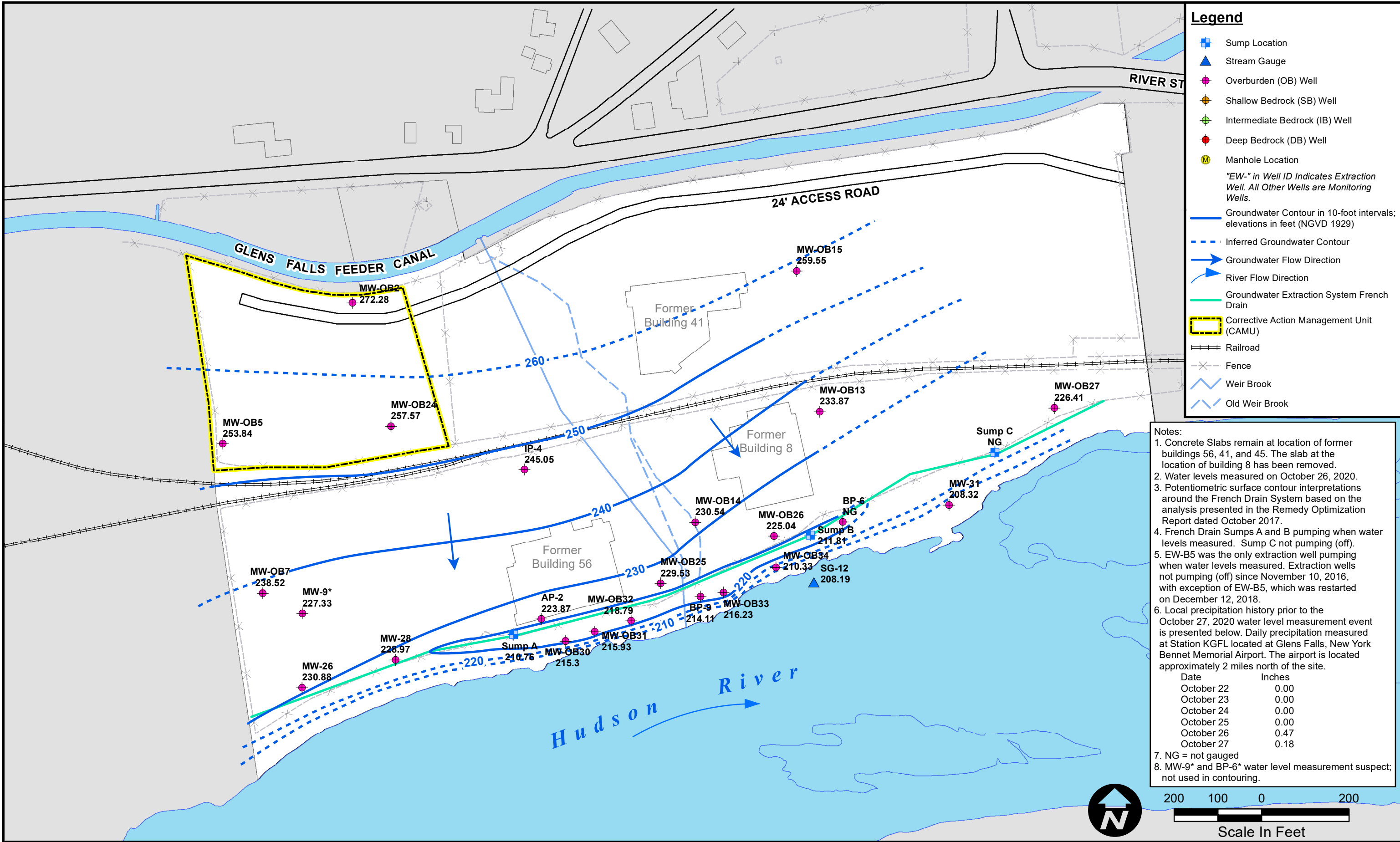
Reviewed By: C. Reuter

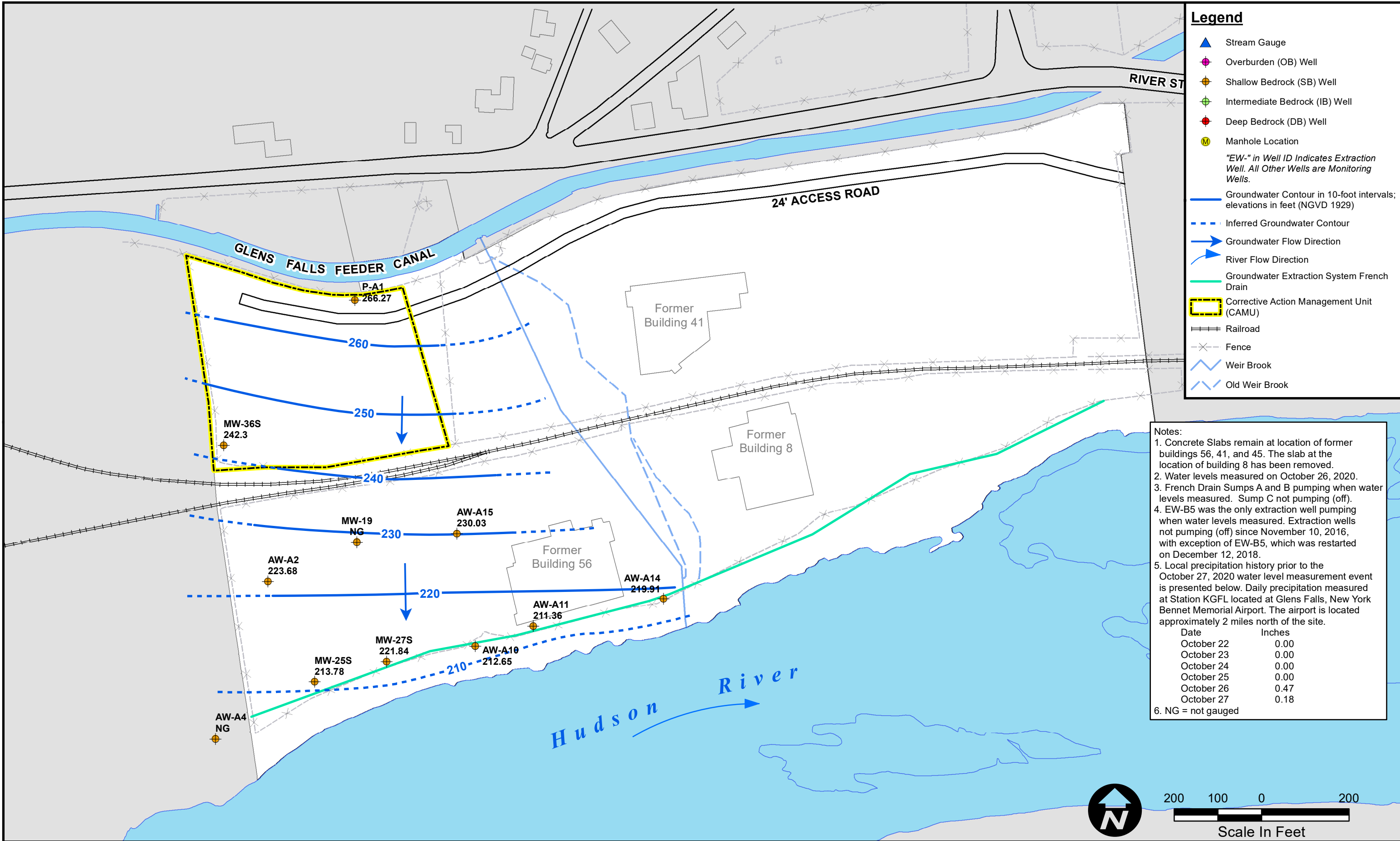


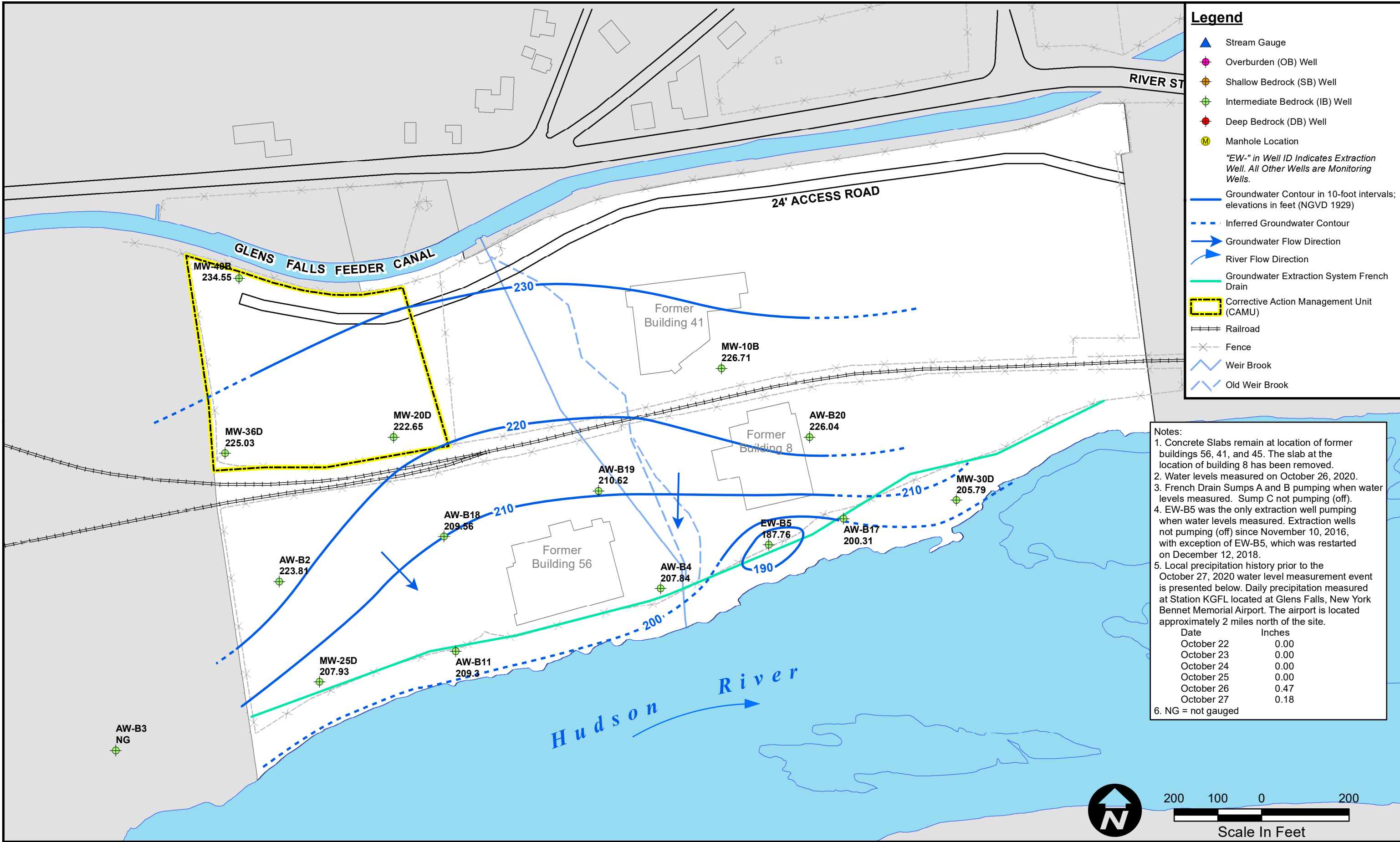


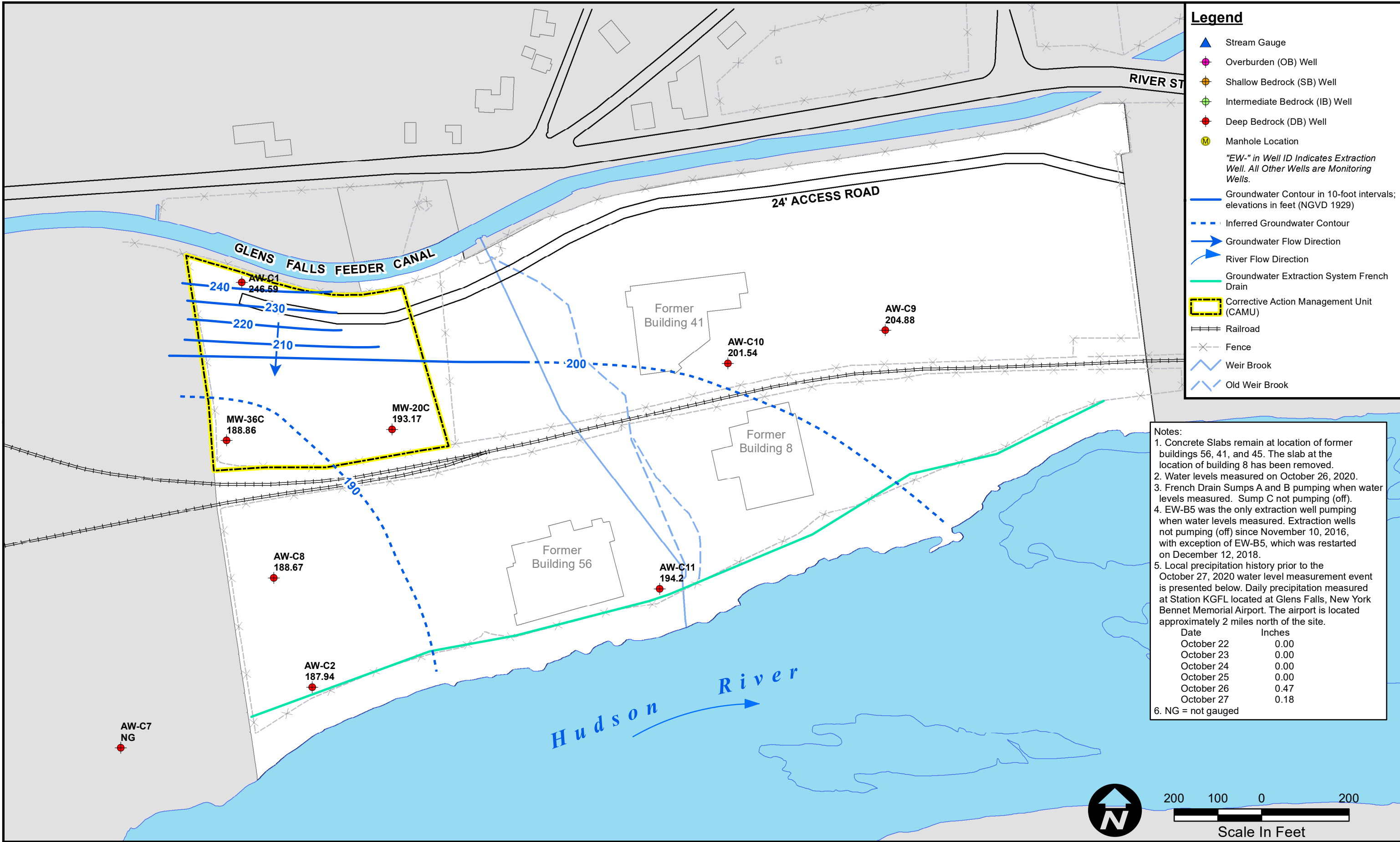
Map Source: AWARE Incorporated, January 1989. Hydrostratigraphic Cross Section D-D'.
Cross section placed along the northern banks of the Hudson River.

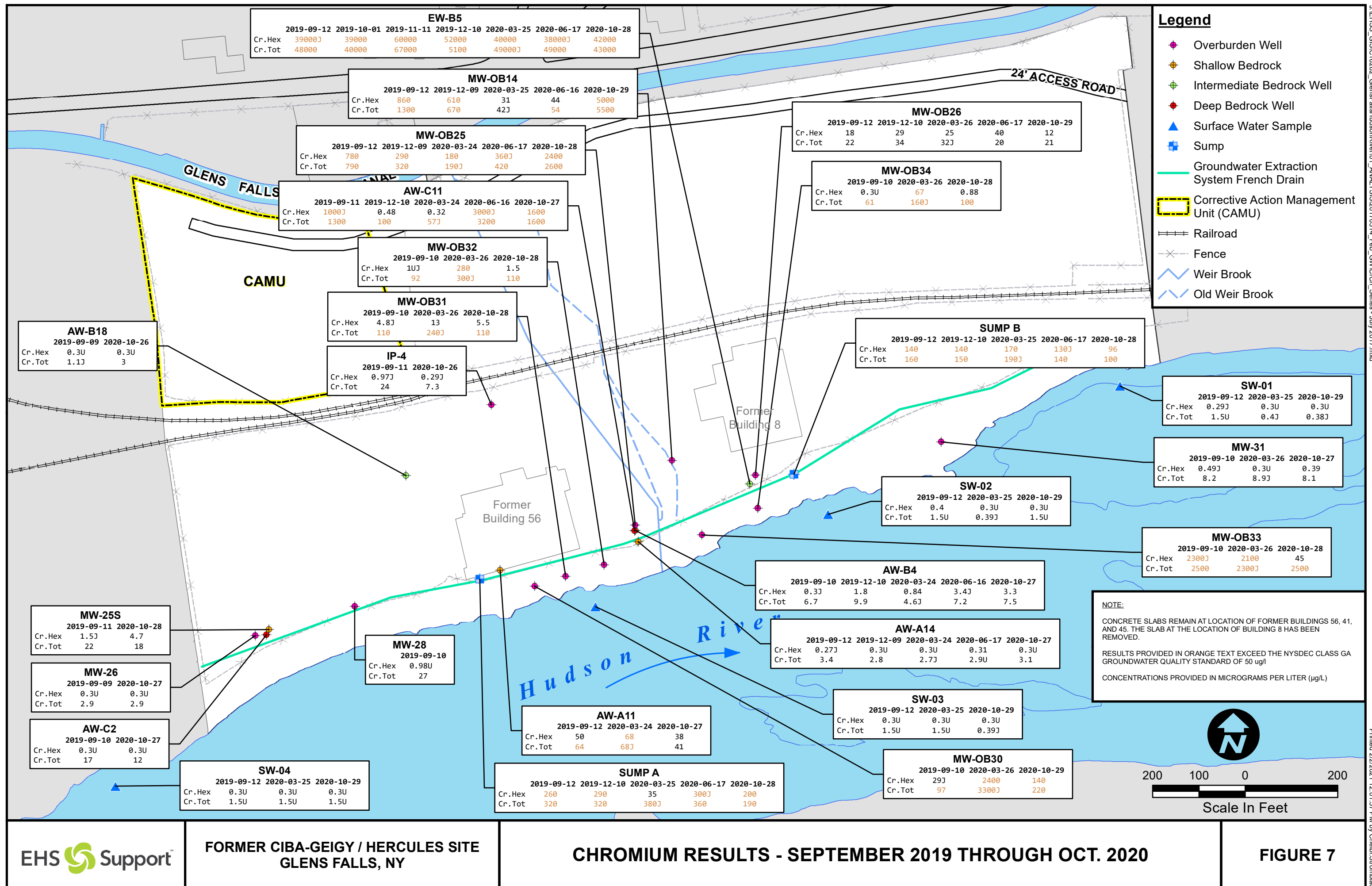


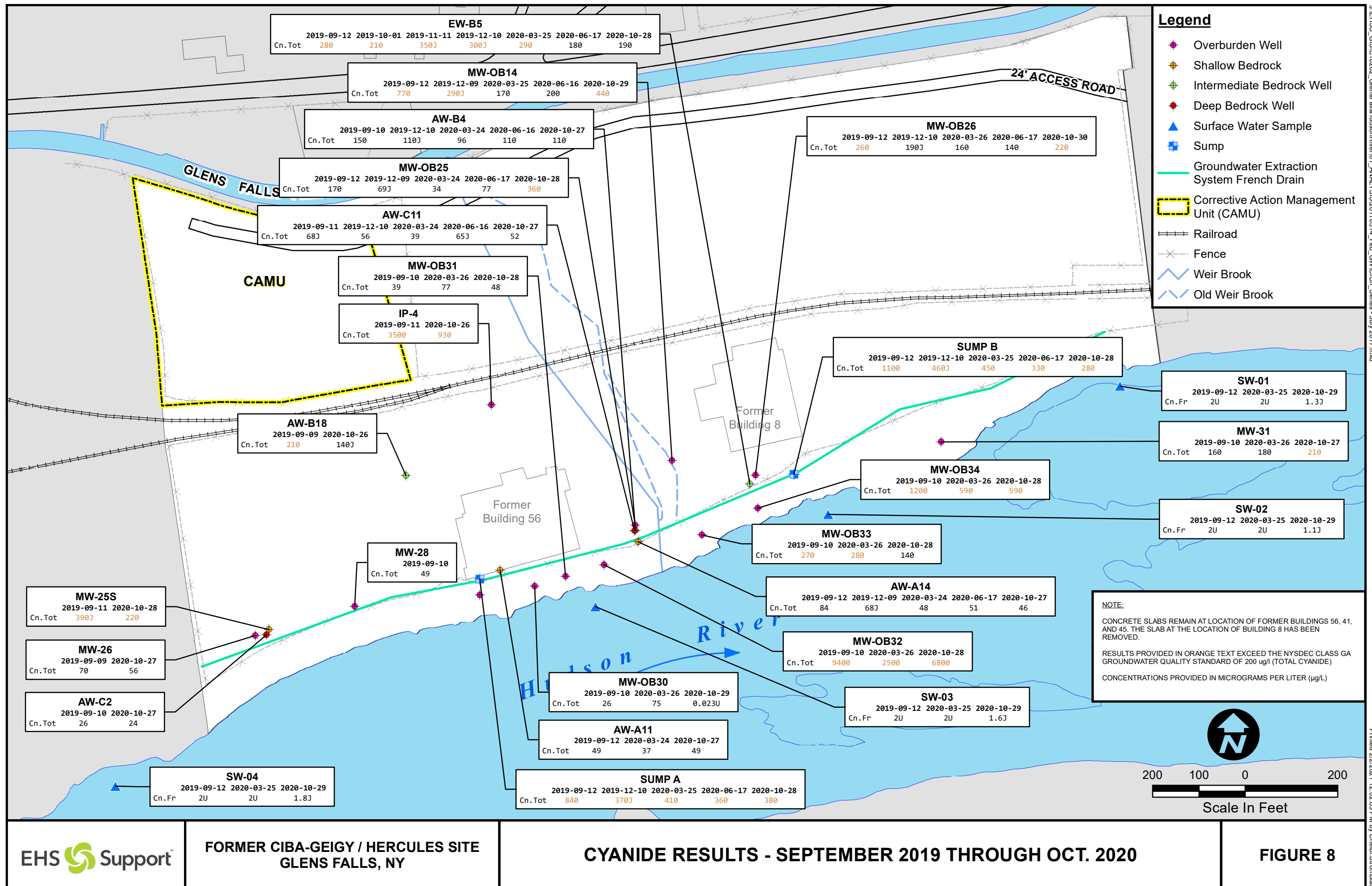






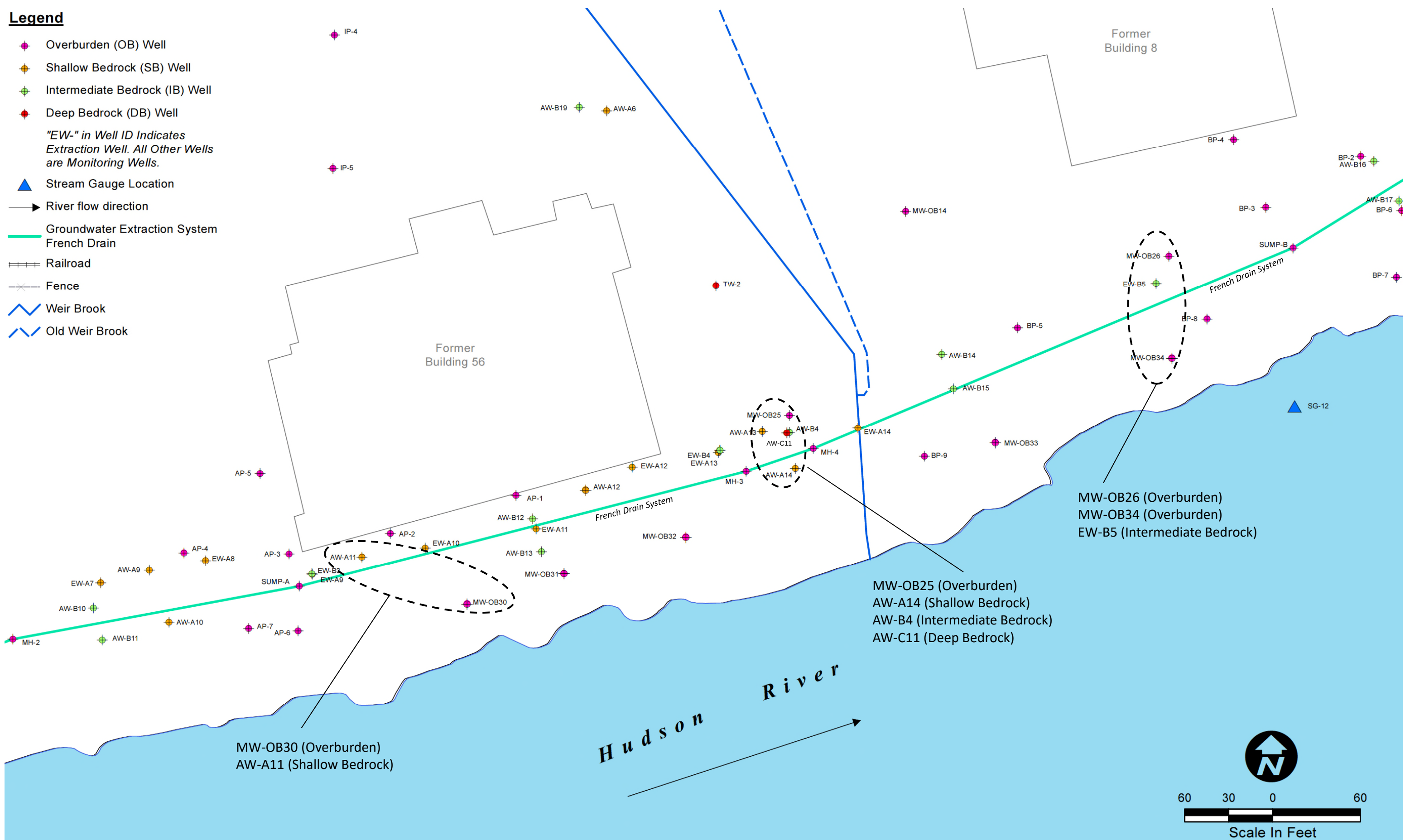


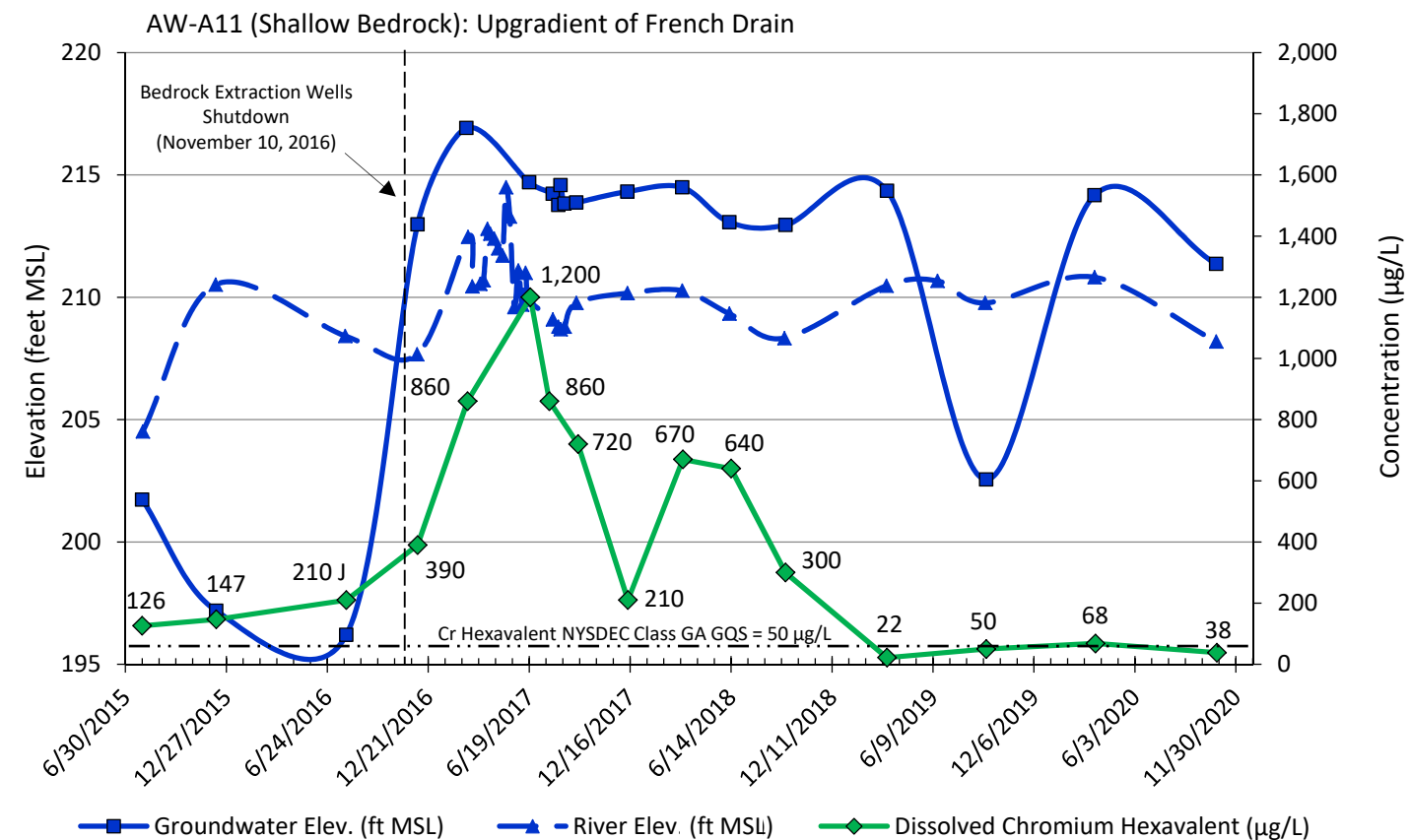
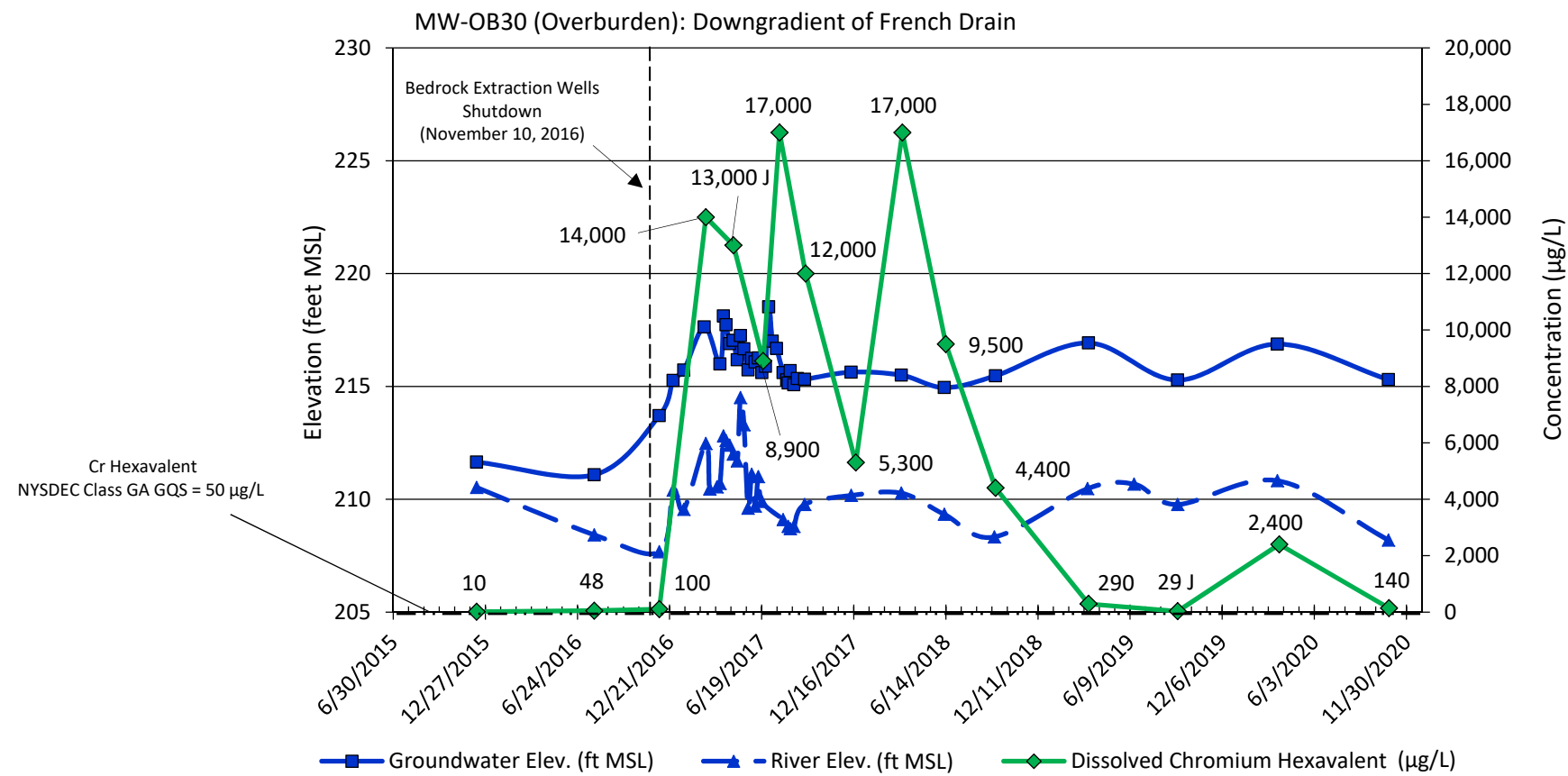




Legend

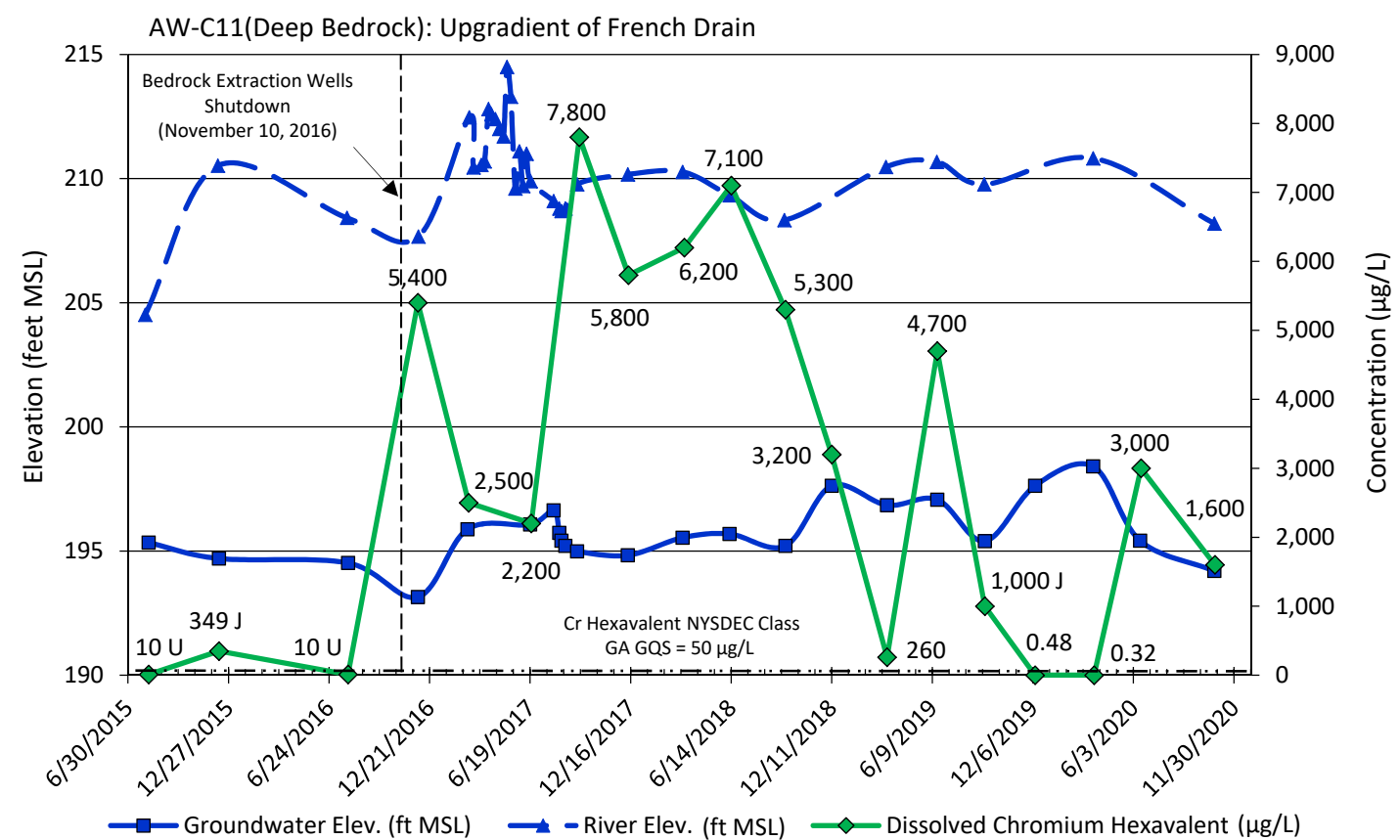
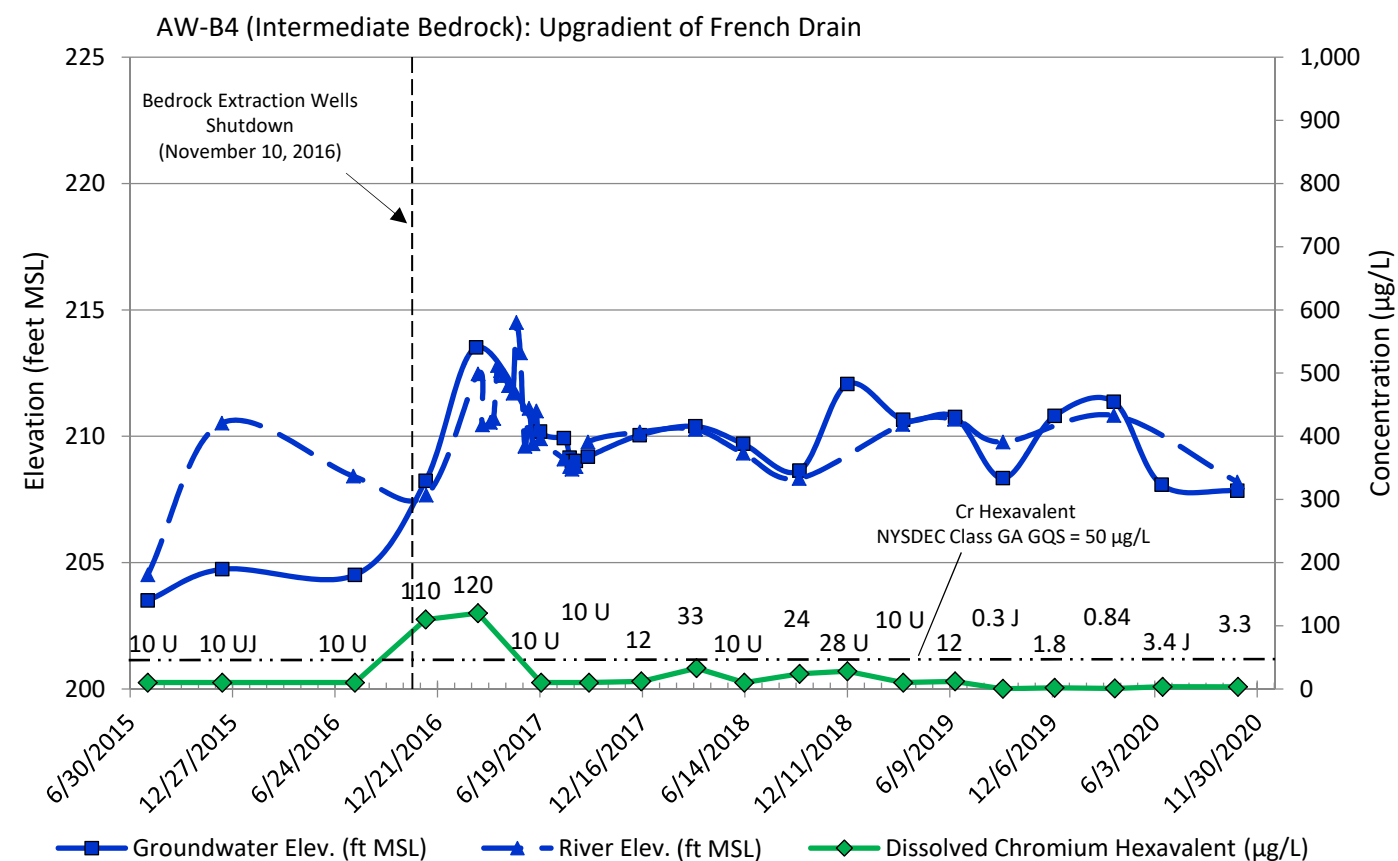
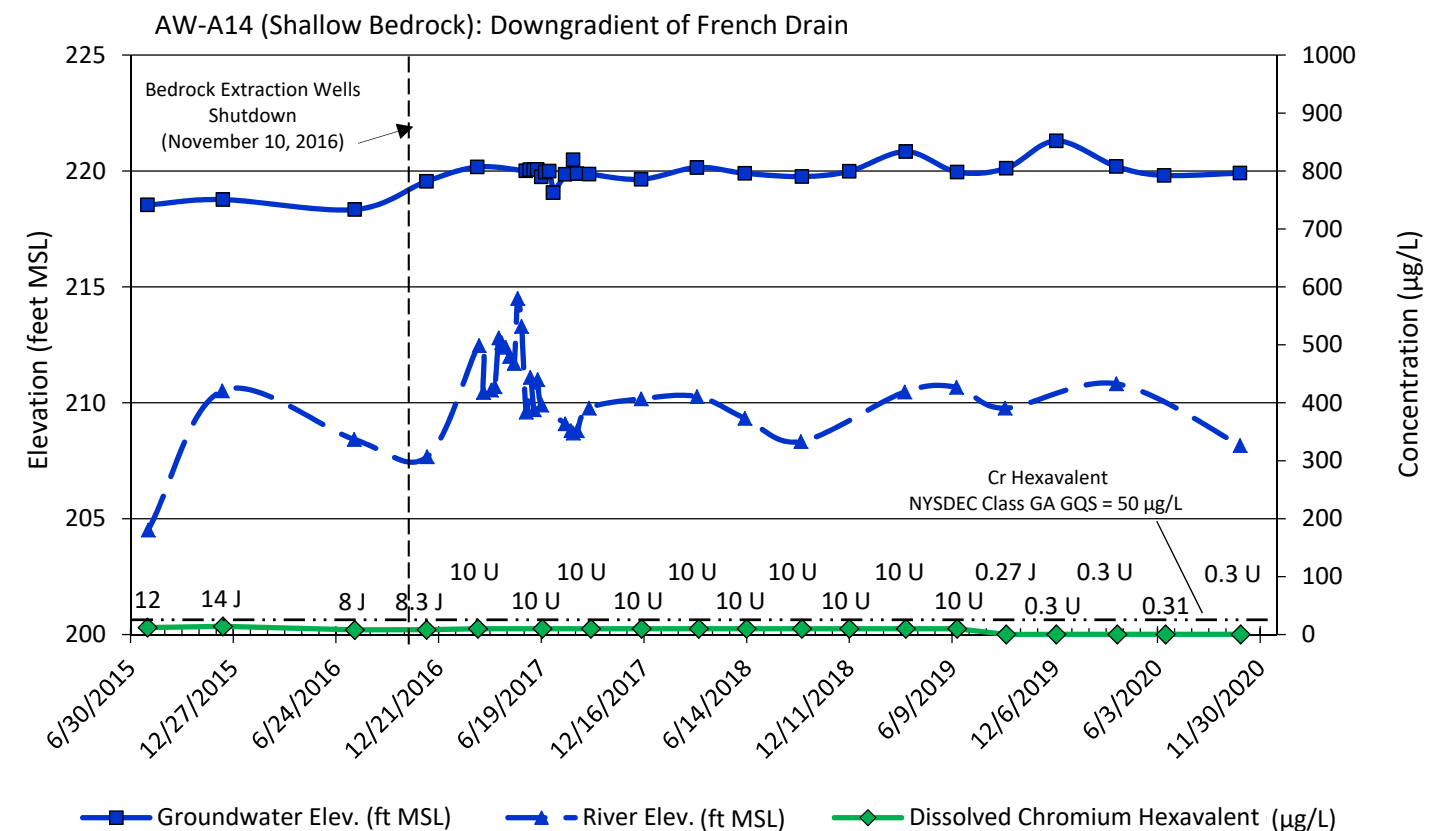
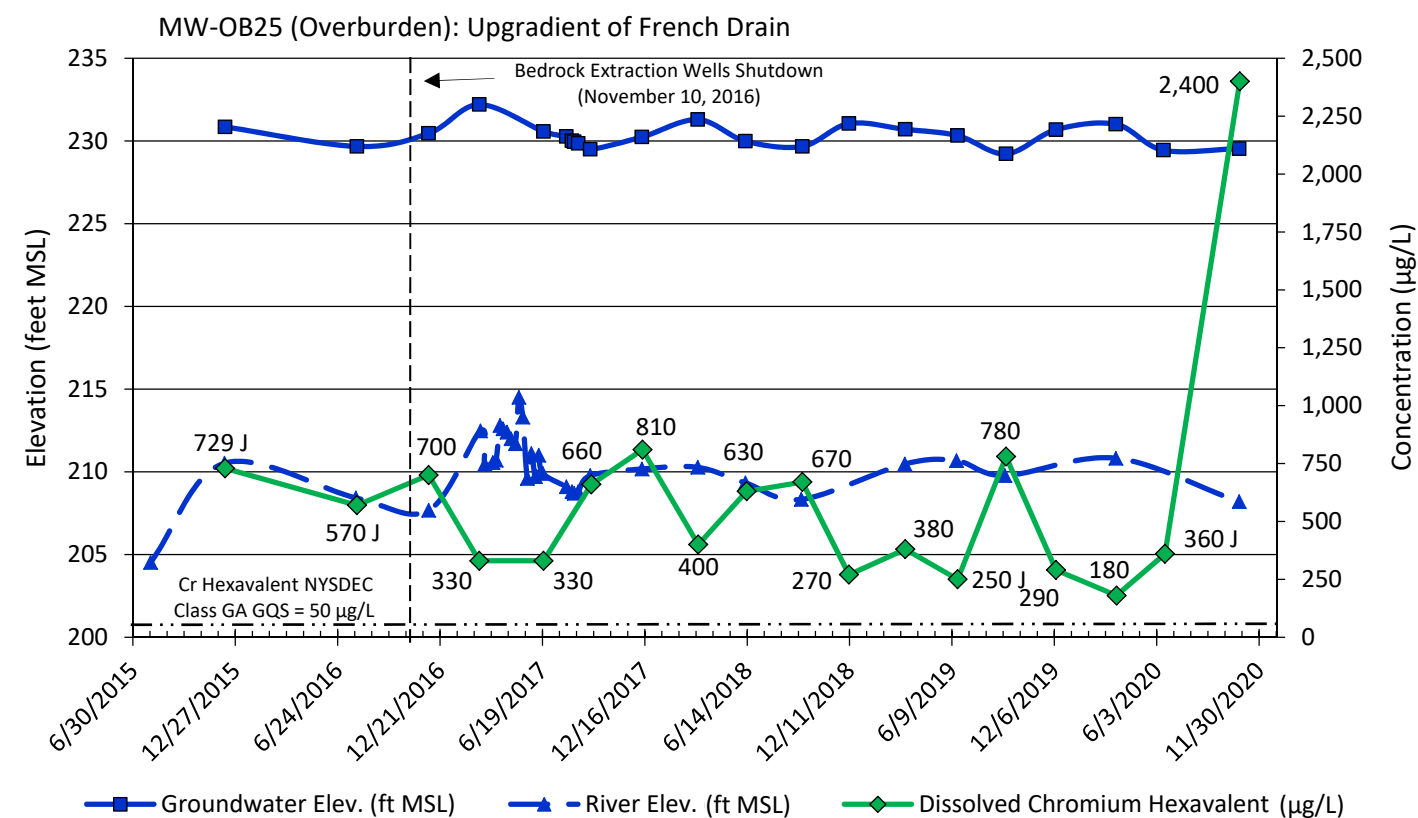
- ◆ Overburden (OB) Well
- ◆ Shallow Bedrock (SB) Well
- ◆ Intermediate Bedrock (IB) Well
- ◆ Deep Bedrock (DB) Well
- "EW-" in Well ID Indicates Extraction Well. All Other Wells are Monitoring Wells.*
- ▲ Stream Gauge Location
- River flow direction
- Groundwater Extraction System
- French Drain
- = Railroad
- Fence
- Weir Brook
- Old Weir Brook





Notes:

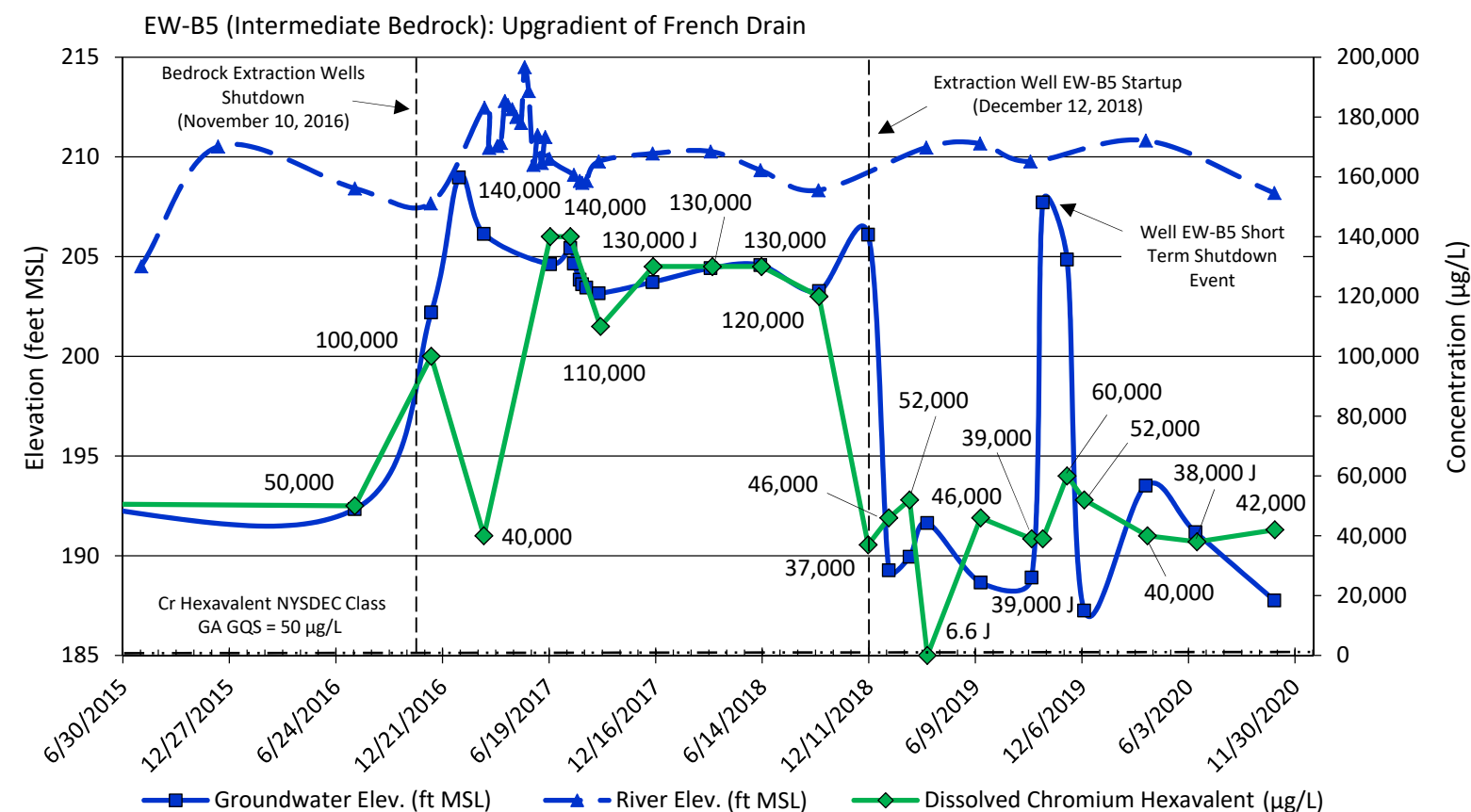
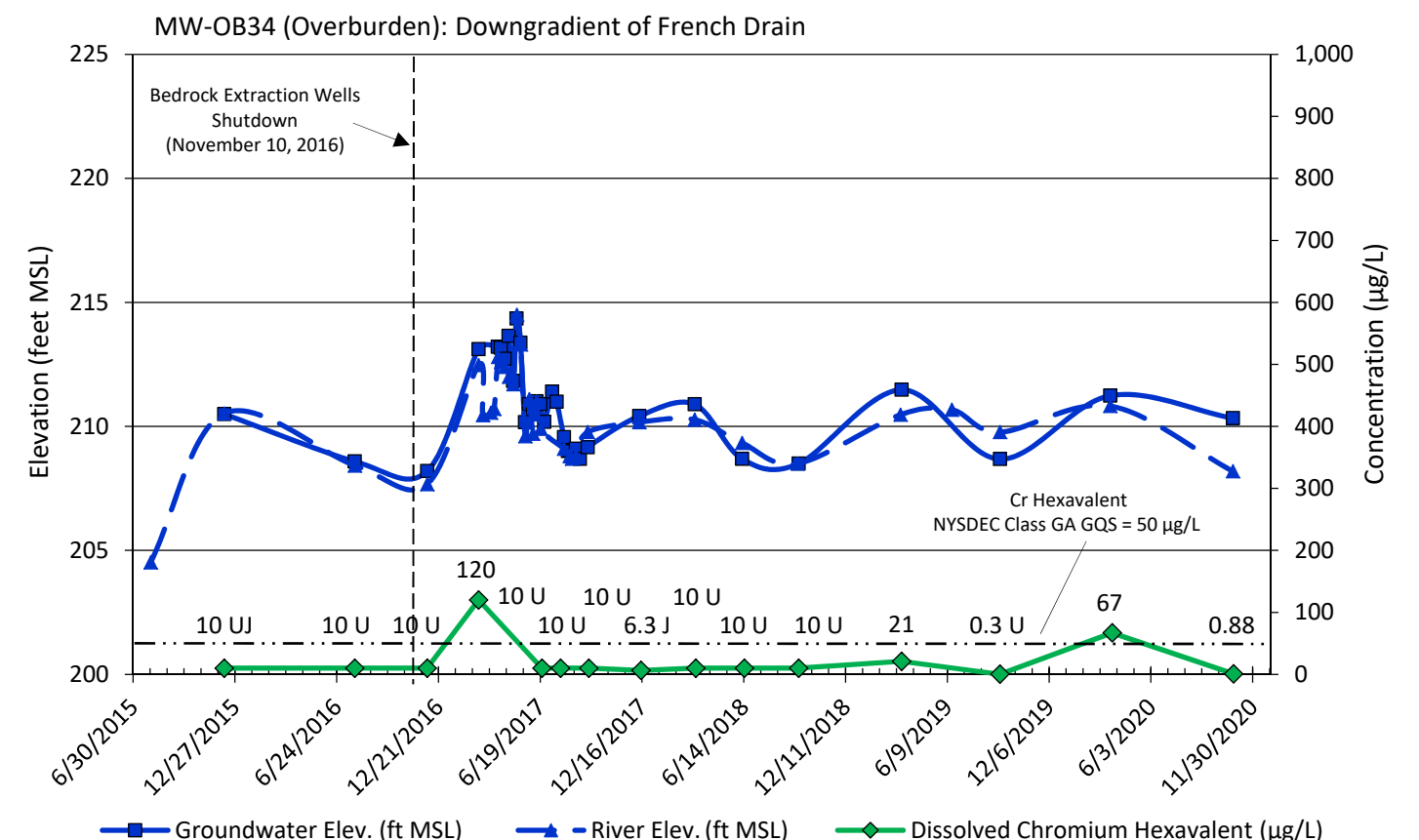
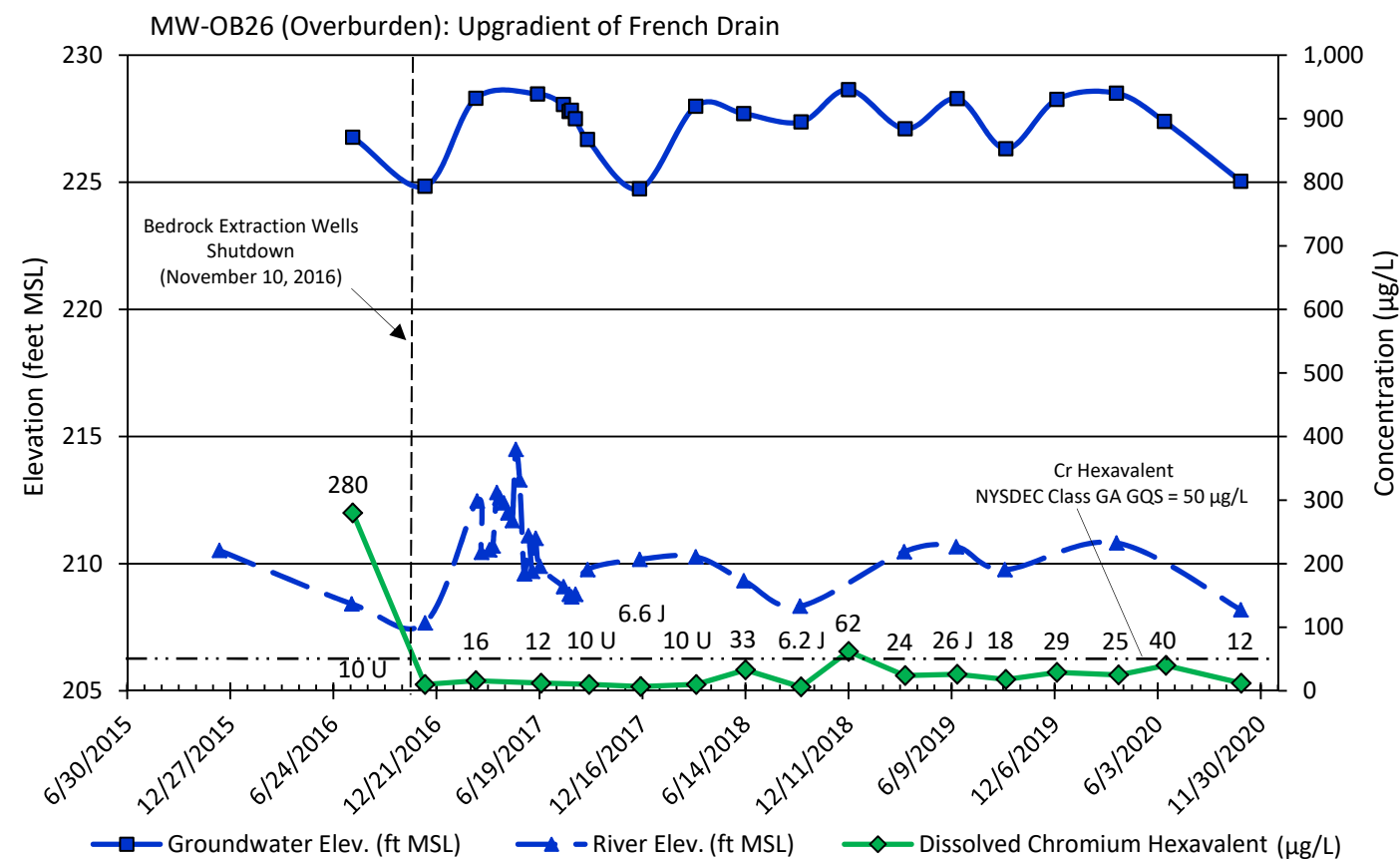
1. Groundwater (monitoring well) and surface water (Hudson River) hydraulic data points plotted on the graph are manual field measurements.
2. NYSDEC Class GA groundwater quality standard (GQS) from 6 NYCRR 703.5, Table 1 Water Quality Standards and Water Quality Guidance Values from NYS Division of Water TOGS 1.1.1.
3. U = indicates analyte was not detected above reporting limit shown
4. J = indicates value is estimated
5. µg/L = micrograms per liter
6. ft = feet
7. MSL = mean sea level



Notes:

1. Groundwater (monitoring well) and surface water (Hudson River) hydraulic data points plotted on the graph are manual field measurements.
2. NYSDEC Class GA groundwater quality standard (GQS) from 6 NYCRR 703.5, Table 1 Water Quality Standards and Water Quality Guidance Values from NYS Division of Water TOGS 1.1.1
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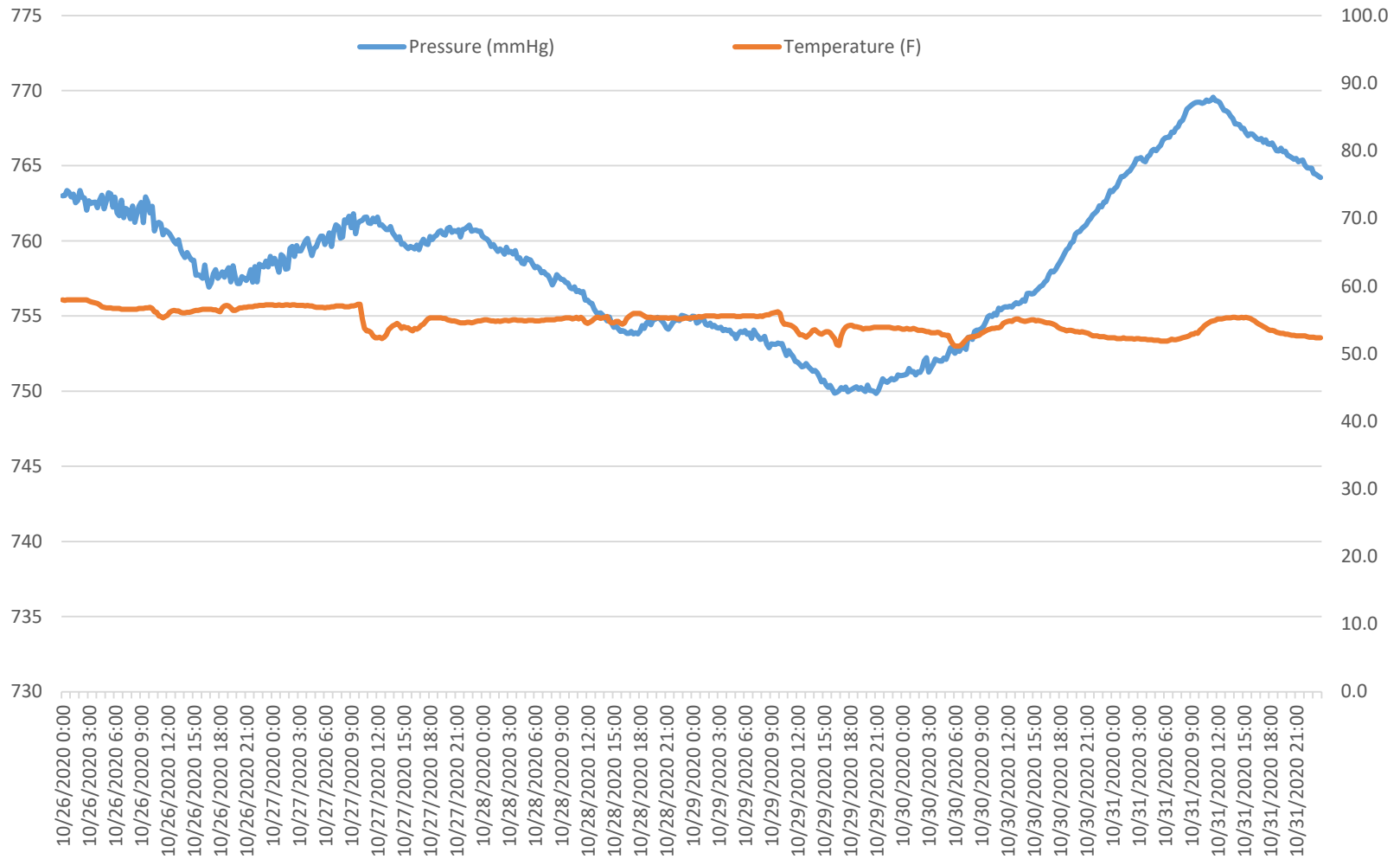
Notes:

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Appendix A Field Sampling Logs and Barometric Pressure Graph

Temperature and Barometric Pressure October 26 - October 31, 2020



Water Level Measurements
Ashland - Glens Falls, NY

Date: 10/26/2026
Quarter/Year: 4 Q 2020
Personnel: Cody M. Huley B. Bennett C.

Well Name	Install Depth (ft bgs)	Well Screen Length	Time	DTW (ft btoe)	Total Depth (ft btoe)	Comments
MAIN PLANT SITE						
AP-2	20.0	10	1420	16.17	14.92	
AW-A2	32.0	10	1020	25.42	40.11	
AW-A4	37.0	10	1140	22.01	39.04	
AW-A10	46.0	10	1150	26.40	45.65	
AW-A11	58.0	10	1416	28.24	57.34	
AW-A14	34.5	10	1343	16.41	31.92	
AW-A15	31.0	10	1155	16.87	31.11	
AW-B2	55.0	24	1010	24.99	54.59	
AW-B3	58.5	10	1151	27.16	60.47	
AW-B4	47.5	10	1342	30.41	46.03	
AW-B11	67.0	10	1140	29.35	59.30	
AW-B17	47.7	10	1353	36.11	47.28	
AW-B18	50.5	10	1203	37.79	55.72	
AW-B19	46.9	10	1215	34.86	52.65	
AW-B20	31.0	10	1320	17.61	37.01	
AW-C1	144.0	10	1120	36.41	134.97	
AW-C2	169.0	10	1117	59.16	171.91	
AW-C7	155.0	10	1138	53.34	60.52	
AW-C8	162.0	15	1000	60.43	64.07	
AW-C9	127.0	10	1231	46.72	47.71	
AW-C10	137.0	10	025	53.41	136.70	
AW-C11	158.0	10	1340	44.25	159.49	
BP-6	23.0	10	1400	26.11	47.28	
BP-9	16.0	10	1400	18.41	18.52	
IP-4	8.5	4	1200	4.35	12.84	
MW-9	49.4	10*	1105	18.92	49.045	
MW-10B	35.0	10	1219	27.22	34.95	
MW-19	41.5	31.5	1036	16.35	45.70	
MW-20C	160.0	10	1200	76.08	166.65	
MW-20D	55.1	10	1205	44.25	44.04	
MW-25D	60.7	10	1120	23.37	54.27	
MW-25S	39.4	10	1113	27.71	42.15	
MW-26	~8	5	1110	11.22	13.31	
MW-27S	42.5	10	1125	19.73	34.25	
MW-28	~12	5	1120	10.23	10.29	
MW-30D	51.5	10	1421	11.31	44.07	
MW-31	15.0	5	1415	7.26	17.12	
MW-36C	160.0	10	1133	77.74	164.13	
MW-36D	57.2	10	1150	41.37	54.35	
MW-36S	33.0	9	1140	22.55	36.16	
MW-40B	53.0	10	1125	50.00	54.89	
MW-OB2	17.0	10	1106	12.42	15.00	
MW-OB5	12.0	7	1139	9.86	14.32	
MW-OB7	9.0	5	1427	10.68	15.17	
MW-OB13	8.0	5	1323	10.63	15.05	
MW-OB14	18.0	10	1424	11.11	20.36	
MW-OB15	8.0	5	1226	7.80	7.35	
MW-OB24	10.5	5	1158	12.45	16.14	
MW-OB25	10.0	5	1341	8.92	11.57	
MW-OB26	14.0	5	1350	13.44	17.91	
MW-OB27	11.0	5	1015	12.74	15.96	
MW-OB30	18.25	12	1082	10.11	18.55	@1352
MW-OB31	13.67	8	1352	10.89	15.96	
MW-OB32	13.05	5	1346	9.17	15.31	
MW-OB33	15.21	10	1342	7.80	15.51	
MW-OB34	15.04	10	1347	15.26	16.35	
P-A1	34.5	10	1230	17.03	19.57	
WP-CC-12	21.2	5	1135	DRY	14.95	
SG-12	NA	N/A	1413	2.25	1.12	
REMEDIATION SYSTEM						
Sump A	~31.5	N/A	1011	24.15	NA	
Sump B	~29.2	N/A	426	24.58	NA	
EW-85	51.8	15.8	957	47.94	53.64	

Note: MW-9 - No log available, assumed to have 10' screen.

SG-11 Canal gauge no longer in place. Feeder Canal depth to water and total depth to be measured from canal wall by trail near former location of SG-2.

Ashland - Glens Falls, NY

Daily Calibrations

Date: 10/26/20

Quarter/Year: 4/2/2020

Personnel: Haley P., Corey M.

Parameter	Horiba Calibration Standards
pH	4.0
Conductivity	4.51 ms/cm
Turbidity	0 ntu
Diss. Oxygen	Varies per Temp., mg/L

Calibrations are to be conducted daily. Unsuccessful calibrations will be followed with second and third attempts. If calibrations remain unsuccessful, equipment will be removed from service, and spare equipment used in it's place. Calibration considered successful if within 2% of Calibration standards (NTU must be under 5 for turbidity).

Time 1502	Staff: HB/CM	
Model:	Horiba U-52	Successful?
Meter Serial #:	45KTS72E	
pH	3.96	✓
Conductivity	4.52	✓
Turbidity	0.0	✓
DO	12.07	✓
Temperature	13.48	N/A

Time 1507	Staff: HB/CM	
Model:	Horiba U-52	Successful?
Meter Serial #:	WY106UXB	
pH	3.99	✓
Conductivity	4.53	✓
Turbidity	0.0	✓
DO	11.47	✓
Temperature	12.46	N/A

Time 1509	Staff:	
Model:	Horiba U-52	Successful?
Meter Serial #:	162UMAV9	
pH	4.02	✓
Conductivity	4.51	✓
Turbidity	0.0	✓
DO	10.50	✓
Temperature	13.41	N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Ashland - Glens Falls, NY

Daily Calibrations

Date: 10/27/20

Quarter/Year: Q420

Personnel: Cody, Joanna, Haley, Garrett

Parameter	Horiba Calibration Standards
pH	4.0
Conductivity	4.51 ms/cm
Turbidity	0 ntu
Diss. Oxygen	Varies per Temp., mg/L

Calibrations are to be conducted daily. Unsuccessful calibrations will be followed with second and third attempts. If calibrations remain unsuccessful, equipment will be removed from service, and spare equipment used in its place. Calibration considered successful if within 2% of Calibration standards (NTU must be under 5 for turbidity).

Time <u>0825</u>	Staff: <u>H.B./CM</u>	
Model: <u>HORIBA U-52</u>		Successful?
Meter Serial #: <u>PC2HMAV9</u>		
pH <u>4.02</u>		<u>Y</u>
Conductivity <u>4.52</u>		<u>Y</u>
Turbidity <u>0.0</u>		<u>Y</u>
DO <u>11.04</u>		<u>Y</u>
Temperature <u>13.17</u>		N/A

Time <u>0820</u>	Staff: <u>H.B./CM</u>	
Model: <u>HORIBA U-52</u>		Successful?
Meter Serial #: <u>WY106NxB</u>		
pH <u>4.00</u>		<u>Y</u>
Conductivity <u>4.52</u>		<u>Y</u>
Turbidity <u>0.0</u>		<u>Y</u>
DO <u>10.93</u>		<u>Y</u>
Temperature <u>12.96</u>		N/A

Time <u>0815</u>	Staff: <u>H.B./CM</u>	
Model: <u>HORIBA U-52</u>		Successful?
Meter Serial #: <u>45KT572F</u>		
pH <u>3.99</u>		<u>Y</u>
Conductivity <u>4.5</u>		<u>Y</u>
Turbidity <u>0.0</u>		<u>Y</u>
DO <u>10.13</u>		<u>Y</u>
Temperature <u>13.40</u>		N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Time	Staff:	
Model:		Successful?
Meter Serial #:		
pH		
Conductivity		
Turbidity		
DO		
Temperature		N/A

Ashland - Glens Falls, NY

Daily Calibrations

Date: 10/28/20

Quarter/Year: Q420

Personnel: JS, CM

Parameter	Horiba Calibration Standards
pH	4.0
Conductivity	4.51 ms/cm
Turbidity	0 ntu
Diss. Oxygen	Varies per Temp., mg/L

Calibrations are to be conducted daily. Unsuccessful calibrations will be followed with second and third attempts. If calibrations remain unsuccessful, equipment will be removed from service, and spare equipment used in it's place. Calibration considered successful if within 2% of Calibration standards (NTU must be under 5 for turbidity).

Time	8:01	Staff: JS	
Model:	U-52		Successful?
Meter Serial #:	WY106NXB		
pH	4.00		✓
Conductivity	4.54		✓
Turbidity	0.0		✓
DO	10.56		✓
Temperature			N/A

Time	0802	Staff: CM	
Model:	U-52		Successful?
Meter Serial #:	762HMA79		
pH	4.02		✓
Conductivity	4.51		✓
Turbidity	0.0		✓
DO	10.99		✓
Temperature	13.07		N/A

Time	8:02	Staff: JS	
Model:	U-52		Successful?
Meter Serial #:	45KT572F		
pH	3.98		✓
Conductivity	4.53		✓
Turbidity	0.0		✓
DO	9.26		✓
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Ashland - Glens Falls, NY

Daily Calibrations

Date: 10/29/20

Quarter/Year: Q4 20

Personnel: CM, JS

Parameter	Horiba Calibration Standards
pH	4.0
Conductivity	4.51 ms/cm
Turbidity	0 ntu
Diss. Oxygen	Varies per Temp., mg/L

Calibrations are to be conducted daily. Unsuccessful calibrations will be followed with second and third attempts. If calibrations remain unsuccessful, equipment will be removed from service, and spare equipment used in it's place. Calibration considered successful if within 2% of Calibration standards (NTU must be under 5 for turbidity).

Time	<u>0808</u>	Staff: <u>CM</u>	
Model:	<u>HORIBA U-52</u>		Successful?
Meter Serial #:	<u>PCJHNAV9</u>		
pH	<u>4.00</u>		
Conductivity	<u>4.51</u>		
Turbidity	<u>0.0</u>		
DO	<u>11.23</u>		
Temperature	<u>12.79</u>		N/A

Time	<u>0810</u>	Staff: <u>JS</u>	
Model:	<u>HORIBA U-52</u>		Successful?
Meter Serial #:	<u>45KT572F</u>		
pH	<u>3.98</u>		
Conductivity	<u>4.52</u>		
Turbidity	<u>0.0</u>		
DO	<u>10.72</u>		
Temperature	<u>12.59</u>		N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

Time		Staff:	
Model:			Successful?
Meter Serial #:			
pH			
Conductivity			
Turbidity			
DO			
Temperature			N/A

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event (AW-11)

Sampling Personnel: <u>BB Helly B.</u>				Well ID: <u>AW-11</u>			
Date: <u>10-27-20</u>				Original Install Depth: <u>58.0</u>		feet	
Weather: <u>Cloudy 40s</u>				Screen Length: <u>12</u>		feet	
Time In: <u>1538</u> Time Out: <u>1705</u>				Well Diameter: <u>2</u>		inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>28.24</u>	<u>28.16</u>
Depth to Water (From TOC) With Pump in place:	(feet)		<u>28.06</u>
Total Depth (from TOC):	(feet)	<u>57.34</u>	
Length of Water Column:	(feet)	<u>29.18</u>	
Well Type: Flushmount ☒ Stick-Up ☐			
Well Locked: Yes ☒ No ☐			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(ml or gal)	<u>4.76 g</u>		Pump ID: <u>14312</u>	Pump Size: <u>Bin</u>	Depth of Pump Intake: <u>52.34</u>	
Pumping Rate of Pump:	(ml/min)	<u>200</u>		Evacuation Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Total Volume Removed:	(ml or gal)	<u>5 gm</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PC24MAV9</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>29.00</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	1600	1602	1604	1606	1608	1610	1615	1620	1625	1630	1635	1640	1645	1650
Rate (ml/min)	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Depth to Water (ft. TOC)	28.25	28.31	28.31	28.40	28.41	28.42	28.50	28.59	28.65	28.71	28.80	28.88	28.92	29.00
Temperature (°C)	12.76	12.19	12.10	12.06	11.96	11.92	11.83	11.80	11.78	11.75	11.73	11.72	11.71	11.69
pH	10.04	8.77	8.72	8.59	8.55	8.54	8.55	8.62	8.68	9.25	8.71	8.74	8.78	8.82
Conductivity (mS/cm)	0.677	0.745	0.774	0.771	0.783	0.790	0.787	0.792	0.800	0.808	0.808	0.833	0.842	0.850
Dissolved Oxygen (mg/L)	10.78	5.74	3.62	2.32	1.85	1.61	1.17	0.96	0.76	0.58	0.60	0.58	0.55	0.56
Turbidity (NTU)	7.2	10.5	9.2	8.2	6.5	5.8	3.4	1.9	0.8	0.0	0.4	0.0	0.0	0.0
ORP (mV)	96	67	47	28	9	-5	-13	-20	-28	-40	-38	-37	-38	-39

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>AW-11-20201027</u>	Duplicate ID:		UNIT STABILITY				
Diss. Chromium & Vanadium ☒	Start Time: <u>1654</u>	Sample Time:						
Diss. Hexavalent Chromium ☒	End Time: <u>1800</u>	Total Bottles:						
Total Cyanide <u>20</u>	MS/MSD: Yes ☐ No ☒	Sampled By:						
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:						
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:						
Hardness ☐	Sampled By: <u>LB</u>	Total Bottles:		pH	DO	Turb.	Cond.	ORP
VOCs (Dichlorobenzenes) ☐		Sampled By:		± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: JS		Well ID: AW-A14	
Date: 10/27/2020		Original Install Depth: 34.5 feet	
Weather: overcast 45°F		Screen Length: 10 feet	
Time In: 1405 Time Out: 1530		Well Diameter: 2" inches	

10/26 10/27		WELL INFORMATION	
Depth to Water (from TOC): (feet)	16.91 16.93	Well Type: Flushmount ☒ Stick-Up ☐	
Depth to Water (From TOC) With Pump in place: (feet)	16.52	Well Locked: Yes ☒ No ☐	
Total Depth (from TOC): (feet)	31.92	Measuring Point Marked: Yes ☒ No ☐	
Length of Water Column: (feet)	14.99	Well Condition: Good ☒ Poor ☐	
		Well Condition Comments:	

WELL WATER INFORMATION		EVACUATION INFORMATION	
Volume of Water in Well: (mL or gal)	2.44 GAL	Pump ID: 14311	Pump Size: 21.75" Depth of Pump Intake: 26.92
Pumping Rate of Pump: (mL/min)	150	Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐	
Total Volume Removed: (mL or gal)	2.5 GAL	Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐	
Volume Measurements (gal) (mL)		Water Quality Meter (type/Serial Number): Horiba/522924-45KTS72E	
Tubing Volume per foot	0.003 11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐
Well Volume per foot	0.041 155.18	1" diam. well	Did well go dry? Yes ☐ No ☒
	0.163 616.95	2" diam. well	Final Depth to Water (prior to turning off pump): 18.31
	0.653 2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:

FIELD PARAMETER READINGS:												
Time	1436	1438	1440	1442	1444	1449	1454	1459	1504	1509		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150		
Depth to Water (ft. TOC)	18.15	18.21	18.28	18.33	18.34	18.31	18.32	18.33	18.32	18.30		
Temperature (°C)	11.37	11.35	11.36	11.35	11.36	11.37	11.37	11.35	11.35	11.35		
pH	8.10	8.18	8.21	8.23	8.24	8.24	8.23	8.23	8.22	8.22		
Conductivity (mS/cm)	1.19	1.20	1.20	1.20	1.21	1.21	1.22	1.22	1.22	1.21		
Dissolved Oxygen (mg/L)	8.96	2.07	1.46	1.11	0.92	0.71	0.61	0.56	0.53	0.52		
Turbidity (NTU)	1.9	2.0	1.7	1.5	1.4	0.9	0.8	0.8	0.9	0.8		
ORP (mV)	106	56	25	-10	-34	-65	-79	-87	-91	-94		

SAMPLE INFORMATION		Observations (water color, clarity, etc.):	
Sample List:	Sample ID: AW-A14.2020027	Duplicate ID:	
Diss. Chromium & Vanadium ☒	Start Time: 1510	Sample Time:	
Diss. Hexavalent Chromium ☒	End Time: 1520	Total Bottles:	
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:	
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:	
Total Dissolved Solids ☐	Total Bottles: 3	Sample Time:	
Hardness ☐	Sampled By: JS	Total Bottles:	
VOCs (Dichlorobenzenes) ☐		Sampled By:	

Free Cyanide Sulfide Test Strip: ☒ Positive (Black) / Negative (No change) NA				
UNIT STABILITY				
pH	DO	Turb.	Cond	ORP
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: JS		Well ID: AW-B4	
Date: 10/27/20		Original Install Depth: 47.5 feet	
Weather: overcast 45°F		Screen Length: 10 feet	
Time In: 1120 Time Out: 1325		Well Diameter: 9 inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	30.41 30.31	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	30.12	Well Locked: Yes ☒ No ☐
Total Depth (from TOC):	(feet)	46.63	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	15.72	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	2.54 gal		Pump ID: 10235	Pump Size: 0.75'	Depth of Pump Intake: 41.05	
Pumping Rate of Pump:	(mL/min)	70 gal		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Total Volume Removed:	(mL or gal)	3 gallons		Tubing Used:	Teflon ☐	Polyethylene ☐	N/A ☒
Volume Measurements:	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): 1400-1600 U-52 32924 45KT572F			
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): 31.73			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	1156	1158	1200	1202	1204	1209	1214	1219	1224	1229	1234	1239	1242	1249
Rate (ml/min)	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Depth to Water (ft. TOC)	31.15	31.05	31.06	31.12	31.51	31.25	31.33	31.44	31.50	31.52	31.58	31.60	31.58	31.60
Temperature (°C)	11.10	11.13	11.15	11.69	11.13	11.11	11.23	11.25	11.31	11.32	11.33	11.35	11.58	11.60
pH	8.57	8.60	8.72	8.23	8.65	7.85	7.76	7.73	7.71	7.70	7.70	7.70	7.69	7.68
Conductivity (mS/cm)	0.001	0.855	1.16	1.17	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.26	1.21	1.21
Dissolved Oxygen (mg/L)	16.50	10.61	7.33	7.36	7.44	7.78	8.64	8.23	8.35	8.30	8.32	8.21	8.20	8.18
Turbidity (NTU)	120	3.4	2.6	2.5	2.5	2.3	2.3	2.5	2.2	2.1	2.3	2.1	2.2	2.0
ORP (mV)	187	187	212	268	291	316	311	297	277	268	252	233	215	207

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: AW-B4 2020 1027	Duplicate ID:	Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change) NA				
Diss. Chromium & Vanadium ☒	Start Time: 1255	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: 1315	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles: 3	Sample Time:					
Hardness ☐	Sampled By: JS	Total Bottles:	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By:	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS</u>				Well ID: <u>AW-BU</u>			
Date: <u>10/27/20</u>				Original Install Depth: <u>47.5</u>		feet	
Weather: <u>overcast 45°F</u>				Screen Length: <u>10</u>		feet	
Time In: <u>1120</u> Time Out: <u>1325</u>				Well Diameter: <u>2"</u>		Inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26 30.41</u>	<u>10/27 30.31</u>
Depth to Water (From TOC) With Pump in place:	(feet)	<u>30.12</u>	
Total Depth (from TOC):	(feet)	<u>46.03</u>	
Length of Water Column:	(feet)	<u>15.72</u>	
Well Type:		Flushmount ☒	Stick-Up ☐
Well Locked:		Yes ☒	No ☐
Measuring Point Marked:		Yes ☒	No ☐
Well Condition:		Good ☒	Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>2.54 gal</u>		Pump ID:	<u>16237</u>	Pump Size:	<u>75"</u>
Pumping Rate of Pump:	(mL/min)	<u>10</u>		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Total Volume Removed:	(mL or gal)	<u>3 gal</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Norba U-52</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>31.75</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:													
Time	<u>1254</u>												
Rate (mL/min)	<u>76</u>												
Depth to Water (ft. TOC)	<u>31.12</u>												
Temperature (°C)	<u>11.70</u>												
pH	<u>7.68</u>												
Conductivity (mS/cm)	<u>1.01</u>												
Dissolved Oxygen (mg/L)	<u>8.10</u>												
Turbidity (NTU)	<u>2.1</u>												
ORP (mV)	<u>198</u>												

SAMPLE INFORMATION				OBSERVATIONS (water color, clarity, etc.):			
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐	Sample ID: <u>A</u>	Duplicate ID: _____		Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>			
	Start Time: _____	Sample Time: _____					
	End Time: _____	Total Bottles: _____					
	MS/MSD: Yes ☐ No ☐	Sampled By: _____					
	Duplicate: Yes ☐ No ☐	MS/MSD ID: _____					
Total Bottles: _____	Sample Time: _____		UNIT STABILITY				
Sampled By: _____	Total Bottles: _____		pH	DO	Turb.	Cond	ORP
	Sampled By: _____		± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>				Well ID: <u>AW-B18</u>			
Date: <u>10/26/20</u>				Original Install Depth: <u>50.5</u>		feet	
Weather: <u>40°F's overcast / Rain showers</u>				Screen Length: <u>10</u>		feet	
Time In: <u>1540</u> Time Out: <u>1738</u>				Well Diameter: <u>2"</u>		inches	

WELL INFORMATION							
Depth to Water (from TOC):	(feet)	<u>37.79</u>	Well Type:	Flushmount ☒	Stick-Up ☐		
Depth to Water (From TOC) With Pump in place:	(feet)	<u>37.70</u>	Well Locked:	Yes ☒	No ☐		
Total Depth (from TOC):	(feet)	<u>55.70</u>	Measuring Point Marked:	Yes ☒	No ☐		
Length of Water Column:	(feet)	<u>17.91</u>	Well Condition:	Good ☒	Poor ☐		
			Well Condition Comments:				

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>2.91</u>	Pump ID:	<u>14310</u>	Pump Size:	<u>1.75"</u>	Depth of Pump Intake:
Pumping Rate of Pump:	(mL/min)	<u>145</u>	Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒	Other ☐
Total Volume Removed:	(mL or gal)	<u>2.5</u>	Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐	
Volume Measurements	(gal)	(mL)	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106 NXB</u>				
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>38.45</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>1557</u>	<u>1559</u>	<u>1601</u>	<u>1603</u>	<u>1605</u>	<u>1607</u>	<u>1612</u>	<u>1617</u>	<u>1622</u>	<u>1627</u>	<u>1632</u>	<u>1637</u>	<u>1642</u>	<u>1647</u>
Rate (mL/min)	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>
Depth to Water (ft. TOC)	<u>38.44</u>	<u>38.41</u>	<u>38.42</u>	<u>38.42</u>	<u>38.44</u>	<u>38.44</u>	<u>38.44</u>	<u>38.44</u>	<u>38.44</u>	<u>38.44</u>	<u>38.45</u>	<u>38.45</u>	<u>38.45</u>	<u>38.45</u>
Temperature (°C)	<u>10.96</u>	<u>10.75</u>	<u>10.63</u>	<u>10.66</u>	<u>10.52</u>	<u>10.42</u>	<u>10.32</u>	<u>10.28</u>	<u>10.24</u>	<u>10.18</u>	<u>10.14</u>	<u>10.11</u>	<u>10.10</u>	<u>10.09</u>
pH	<u>6.62</u>	<u>6.83</u>	<u>6.97</u>	<u>7.10</u>	<u>7.16</u>	<u>7.20</u>	<u>7.28</u>	<u>7.31</u>	<u>7.32</u>	<u>7.34</u>	<u>7.34</u>	<u>7.35</u>	<u>7.36</u>	<u>7.37</u>
Conductivity (mS/cm)	<u>0.926</u>	<u>1.01</u>	<u>1.05</u>	<u>1.07</u>	<u>1.08</u>	<u>1.08</u>	<u>1.09</u>	<u>1.09</u>	<u>1.09</u>	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>
Dissolved Oxygen (mg/L)	<u>1.95</u>	<u>0.44</u>	<u>0.11</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Turbidity (NTU)	<u>11.6</u>	<u>10.8</u>	<u>10.0</u>	<u>9.2</u>	<u>10.8</u>	<u>12.3</u>	<u>13.0</u>	<u>12.4</u>	<u>11.6</u>	<u>9.0</u>	<u>6.2</u>	<u>4.8</u>	<u>4.5</u>	<u>3.8</u>
ORP (mV)	<u>83</u>	<u>47</u>	<u>13</u>	<u>-3</u>	<u>-23</u>	<u>-35</u>	<u>-53</u>	<u>-60</u>	<u>-64</u>	<u>-69</u>	<u>-71</u>	<u>-73</u>	<u>-75</u>	<u>-77</u>

SAMPLE INFORMATION				Observations (water color, clarity, etc.):											
Sample List: Diss. Chromium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☒	Sample ID: <u>AW-B18-20201026</u>		Duplicate ID: <u>DUP-20201026</u>		Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)										
	Start Time: <u>1652</u>		Sample Time: <u>—</u>												
	End Time: <u>1724</u>		Total Bottles: <u>6</u>												
	MS/MSD: Yes ☒ No ☐		Sampled By: <u>CM</u>												
	Duplicate: Yes ☒ No ☐		MS/MSD ID: <u>AW-B18-20201026</u>												
	Total Bottles: <u>6</u>		Sample Time: <u>1652</u>												
Sampled By: <u>CM</u>		Total Bottles: <u>6</u>		UNIT STABILITY <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10% <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>		pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond			ORP									
± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV											
Sampled By: <u>CM</u>		Sampled By: <u>CM</u>													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>		Well ID: <u>AW-C2</u>	
Date: <u>10/27/20</u>		Original Install Depth: <u>169.0</u> feet	
Weather: <u>40° mostly cloudy</u>		Screen Length: <u>10</u> feet	
Time In: <u>1409</u> Time Out: <u>1559</u>		Well Diameter: <u>3"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>53.16</u> / <u>53.18</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>53.39</u>	Well Locked: Yes ☐ No ☒
Total Depth (from TOC):	(feet)	<u>171.91</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>118.73</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>19.35</u>	Pump ID: <u>14313</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>166.91</u>		
Pumping Rate of Pump:	(mL/min)	<u>135</u>	Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐				
Total Volume Removed:	(mL or gal)	<u>3.25</u>	Tubing Used: Teflon ☒ Polyethylene ☒ N/A ☐				
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52</u> <u>WV106N18</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>54.15</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:															
Time	<u>1427</u>	<u>1429</u>	<u>1431</u>	<u>1433</u>	<u>1435</u>	<u>1437</u>	<u>1442</u>	<u>1447*</u>	<u>1452</u>	<u>1457*</u>	<u>1502</u>	<u>1507</u>	<u>1512</u>	<u>1517</u>	
Rate (mL/min)	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	<u>135</u>	
Depth to Water (ft. TOC)	<u>53.62</u>	<u>53.71</u>	<u>53.76</u>	<u>53.81</u>	<u>53.82</u>	<u>53.82</u>	<u>53.82</u>	<u>53.71</u>	<u>53.62</u>	<u>53.76</u>	<u>53.48</u>	<u>53.45</u>	<u>54.00</u>	<u>54.11</u>	
Temperature (°C)	<u>11.55</u>	<u>11.28</u>	<u>11.02</u>	<u>10.84</u>	<u>10.70</u>	<u>10.62</u>	<u>10.50</u>	<u>10.42</u>	<u>10.39</u>	<u>10.33</u>	<u>10.21</u>	<u>10.15</u>	<u>10.16</u>	<u>10.14</u>	
pH	<u>8.48</u>	<u>8.51</u>	<u>8.51</u>	<u>8.36</u>	<u>8.02</u>	<u>7.77</u>	<u>7.54</u>	<u>7.52</u>	<u>7.53</u>	<u>7.52</u>	<u>7.52</u>	<u>7.52</u>	<u>7.53</u>	<u>7.51</u>	
Conductivity (mS/cm)	<u>1.06</u>	<u>1.06</u>	<u>1.03</u>	<u>0.951</u>	<u>0.968</u>	<u>1.10</u>	<u>1.19</u>	<u>1.21</u>	<u>1.23</u>	<u>1.23</u>	<u>1.24</u>	<u>1.24</u>	<u>1.24</u>	<u>1.25</u>	
Dissolved Oxygen (mg/L)	<u>11.80</u>	<u>10.94</u>	<u>11.37</u>	<u>11.25</u>	<u>10.33</u>	<u>10.44</u>	<u>9.25</u>	<u>8.36</u>	<u>7.73</u>	<u>7.28</u>	<u>6.84</u>	<u>6.31</u>	<u>5.75</u>	<u>5.52</u>	
Turbidity (NTU)	<u>27.8</u>	<u>35.7</u>	<u>25.9</u>	<u>19.3</u>	<u>8.5</u>	<u>3.8</u>	<u>2.5</u>	<u>3.4</u>	<u>2.9</u>	<u>2.4</u>	<u>2.8</u>	<u>1.8</u>	<u>2.4</u>	<u>2.1</u>	
ORP (mV)	<u>67</u>	<u>71</u>	<u>64</u>	<u>21</u>	<u>-67</u>	<u>-84</u>	<u>-100</u>	<u>-107</u>	<u>-111</u>	<u>-114</u>	<u>-116</u>	<u>-119</u>	<u>-121</u>	<u>-122</u>	

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>AW-C2-20201027</u>	Duplicate ID:	<u>*1447 change CO₂ tank</u> <u>*1457 change CO₂ tank</u> <u>NA</u>				
Diss. Chromium & Vanadium ☒	Start Time: <u>1532</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: <u>1545</u>	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:	Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u>				
Hardness ☐	Sampled By: <u>CM</u>	Total Bottles:	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By:	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>		Well ID: <u>AW-22</u>			
Date: <u>10/27/20</u>		Original Install Depth: <u>169.0</u>		feet	
Weather: <u>40° mostly cloudy</u>		Screen Length: <u>10</u>		feet	
Time In: <u>1409</u>		Time Out: <u>1559</u>		Well Diameter: <u>8"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>53.16</u>	<u>53.18</u>
Depth to Water (From TOC) With Pump in place:	(feet)		<u>53.39</u>
Total Depth (from TOC):	(feet)	<u>171.91</u>	
Length of Water Column:	(feet)	<u>118.73</u>	
Well Type: Flushmount ☒ Stick-Up ☐			
Well Locked: Yes ☐ No ☒			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>19.35</u>		Pump ID: <u>14313</u>	Pump Size: <u>1.75</u>	Depth of Pump Intake: <u>166.91</u>	
Pumping Rate of Pump:	(mL/min)	<u>135</u>		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Total Volume Removed:	(mL or gal)	<u>3.25</u>		Tubing Used:	Teflon ☒ <u>LM</u>	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52</u> <u>WY106WXB</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐ No ☒		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>54.15</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:											
Time	<u>1522</u>	<u>1527</u>									
Rate (mL/min)	<u>135</u>	<u>135</u>									
Depth to Water (ft. TOC)	<u>54.12</u>	<u>54.13</u>									
Temperature (°C)	<u>10.13</u>	<u>10.12</u>									
pH	<u>7.51</u>	<u>7.50</u>									
Conductivity (mS/cm)	<u>1.25</u>	<u>1.26</u>									
Dissolved Oxygen (mg/L)	<u>5.26</u>	<u>5.06</u>									
Turbidity (NTU)	<u>2.3</u>	<u>2.6</u>									
ORP (mV)	<u>-121</u>	<u>-119</u>									

SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:		Sample ID: <u>AW-22-2020-10-27</u>		Duplicate ID:													
Diss. Chromium & Vanadium ☒		Start Time: <u>1532</u>		Sample Time:													
Diss. Hexavalent Chromium ☒		End Time: <u>1545</u>		Total Bottles:													
Total Cyanide ☒		MS/MSD: Yes ☐ No ☒		Sampled By:													
Free Cyanide ☐		Duplicate: Yes ☐ No ☒		MS/MSD ID:													
Total Dissolved Solids ☐		Total Bottles: <u>3</u>		Sample Time:													
Hardness ☐		Sampled By: <u>cm</u>		Total Bottles:													
VOCs (Dichlorobenzenes) ☐				Sampled By:													
				Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>MA</u>													
				UNIT STABILITY													
				<table border="1"> <thead> <tr> <th>pH</th> <th>DO</th> <th>Turb.</th> <th>Cond</th> <th>ORP</th> </tr> </thead> <tbody> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </tbody> </table>				pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>				Well ID: <u>AW-C11</u>			
Date: <u>10/27/20</u>				Original Install Depth: <u>158.0'</u>		feet	
Weather: <u>60° mostly cloudy</u>				Screen Length: <u>10</u>		feet	
Time In: <u>11:11</u> Time Out: <u>1309</u>				Well Diameter: <u>2"</u>		inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26 44.25</u> <u>10/27 44.15</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>44.25</u>	Well Locked: Yes ☐ No ☒
Total Depth (from TOC):	(feet)	<u>154.99</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>110.65</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>18.04</u>	Pump ID: <u>14310</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>144.99</u>		
Pumping Rate of Pump:	(mL/min)	<u>140</u>	Evacuation Method: Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐				
Total Volume Removed:	(mL or gal)	<u>5</u>	Tubing Used: Teflon ☒ Polyethylene ☒ N/A ☐				
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106NXP</u>			
Tubing Volume per foot:	0.003	11.35	1/4" ID tubing	Sampling Method: Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐			
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>44.32</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>1135</u>	<u>1137</u>	<u>1139</u>	<u>1141</u>	<u>1143</u>	<u>1145*</u>	<u>1150</u>	<u>1153</u>	<u>1200</u>	<u>1205</u>	<u>1210</u>	<u>1215</u>	<u>1220</u>	<u>1225</u>
Rate (mL/min)	<u>140</u>	<u>140</u>	<u>140</u>	<u>146</u>	<u>140</u>		<u>140</u>	<u>140</u>	<u>140</u>	<u>140</u>	<u>140</u>	<u>140</u>	<u>140</u>	<u>140</u>
Depth to Water (ft. TOC)	<u>44.31</u>	<u>44.32</u>	<u>44.32</u>	<u>44.32</u>	<u>44.32</u>		<u>44.31</u>	<u>44.31</u>	<u>44.32</u>	<u>44.33</u>	<u>44.32</u>	<u>44.33</u>	<u>44.32</u>	<u>44.32</u>
Temperature (°C)	<u>11.32</u>	<u>11.22</u>	<u>11.10</u>	<u>11.09</u>	<u>11.21</u>		<u>11.22</u>	<u>11.20</u>	<u>11.27</u>	<u>11.15</u>	<u>10.91</u>	<u>10.80</u>	<u>10.78</u>	<u>10.75</u>
pH	<u>8.64</u>	<u>8.73</u>	<u>8.74</u>	<u>8.54</u>	<u>8.06</u>		<u>8.00</u>	<u>7.71</u>	<u>7.68</u>	<u>7.54</u>	<u>7.52</u>	<u>7.56</u>	<u>7.58</u>	<u>7.58</u>
Conductivity (mS/cm)	<u>1.04</u>	<u>1.05</u>	<u>1.05</u>	<u>0.991</u>	<u>0.936</u>		<u>0.931</u>	<u>0.930</u>	<u>0.928</u>	<u>0.960</u>	<u>1.06</u>	<u>1.11</u>	<u>1.13</u>	<u>1.15</u>
Dissolved Oxygen (mg/L)	<u>10.56</u>	<u>10.59</u>	<u>12.84</u>	<u>12.54</u>	<u>11.98</u>		<u>11.00</u>	<u>7.95</u>	<u>5.97</u>	<u>4.87</u>	<u>1.31</u>	<u>0.05</u>	<u>0.00</u>	<u>0.00</u>
Turbidity (NTU)	<u>0.8</u>	<u>1.2</u>	<u>1.9</u>	<u>4.6</u>	<u>13.5</u>		<u>14.8</u>	<u>14.7</u>	<u>14.6</u>	<u>13.4</u>	<u>6.9</u>	<u>4.4</u>	<u>3.9</u>	<u>3.3</u>
ORP (mV)	<u>-81</u>	<u>-71</u>	<u>-59</u>	<u>-60</u>	<u>-66</u>		<u>-58</u>	<u>-42</u>	<u>-30</u>	<u>-74</u>	<u>-71</u>	<u>-27</u>	<u>-4</u>	<u>6</u>

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>AW-C11-20201027</u>	Duplicate ID:	* 1145 change CO ₂ tank / NO CO ₂ . wait for new tanks.				
Diss. Chromium & Vanadium ☒	Start Time: <u>1240</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: <u>1255</u>	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☒ No ☐	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID: <u>AW-C11-20201027</u>					
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time: <u>1240</u>	Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>				
Hardness ☐	Sampled By: <u>CM</u>	Total Bottles: <u>3</u>	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By: <u>CM</u>	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Ledy Murphy</u>				Well ID: <u>AW-C11</u>			
Date: <u>10/27/26</u>				Original Install Depth: <u>158.0</u>		feet	
Weather: <u>40.5 mostly cloudy</u>				Screen Length: <u>10</u>		feet	
Time In: <u>11:11</u> Time Out: <u>1:30</u>				Well Diameter: <u>2"</u>		inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>44.25</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>44.25</u>	Well Locked: Yes ☐ No ☒
Total Depth (from TOC):	(feet)	<u>154.9</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>110.65</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>13.04</u>	Pump ID: <u>14310</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>149.99</u>		
Pumping Rate of Pump:	(mL/min)	<u>140</u>	Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐				
Total Volume Removed:	(mL or gal)	<u>3</u>	Tubing Used: Teflon ☒ CM ☒ Polyethylene ☒ N/A ☐				
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106N+B</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>44.32</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:											
Time	<u>1230</u>	<u>1235</u>									
Rate (ml/min)	<u>140</u>	<u>140</u>									
Depth to Water (ft. TOC)	<u>44.32</u>	<u>44.32</u>									
Temperature (°C)	<u>10.71</u>	<u>10.75</u>									
pH	<u>7.58</u>	<u>7.57</u>									
Conductivity (mS/cm)	<u>1.16</u>	<u>1.17</u>									
Dissolved Oxygen (mg/L)	<u>0.00</u>	<u>0.00</u>									
Turbidity (NTU)	<u>3.1</u>	<u>2.9</u>									
ORP (mV)	<u>11</u>	<u>14</u>									

SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:																	
Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐				Sample ID: <u>AW-C11-20201027</u> Start Time: <u>1240</u> End Time: _____ MS/MSD: Yes ☒ No ☐ Duplicate: Yes ☐ No ☒ Total Bottles: <u>3</u> Sampled By: <u>CM</u>													
				Duplicate ID: _____ Sample Time: _____ Total Bottles: _____ Sampled By: _____ MS/MSD ID: <u>AW-C11-20201027</u> Sample Time: <u>1240</u> Total Bottles: <u>3</u> Sampled By: <u>CM</u>													
				Free Cyanide Sulfide Test Strip: <u>Positive (black) / Negative (No change)</u> <u>NA</u>													
				UNIT STABILITY <table border="1"> <thead> <tr> <th>pH</th> <th>DO</th> <th>Turb.</th> <th>Cond</th> <th>ORP</th> </tr> </thead> <tbody> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </tbody> </table>				pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody M.</u>				Well ID: <u>EW-B5</u>													
Date: <u>10/28/20</u>				Original Install Depth: <u>51.8</u>		feet											
Weather: <u>40° Overcast</u>				Screen Length: <u>15.8</u>		feet											
Time In: <u>1100</u> Time Out: <u>1130</u>				Well Diameter: <u>8"</u>		Inches											
WELL INFORMATION																	
Depth to Water (from TOC):	(feet)	<u>10.66</u>	<u>10/28</u>	Well Type:	Flushmount ☐	Stick-Up ☐	<u>NA Excavation</u>										
Depth to Water (From TOC) With Pump in place:	(feet)	<u>47.99</u>	<u>48.86</u>	Well Locked:	Yes ☒	No ☐											
Total Depth (from TOC):	(feet)	<u>53.69</u>		Measuring Point Marked:	Yes ☒	No ☐											
Length of Water Column:	(feet)	<u>4.83</u>		Well Condition:	Good ☒	Poor ☐											
				Well Condition Comments:													
WELL WATER INFORMATION				EVACUATION INFORMATION													
Volume of Water in Well:	(mL or gal)	<u>-</u>		Pump ID:	<u>NA</u>	Pump Size:	<u>NA</u>										
Pumping Rate of Pump:	(mL/min)	<u>-</u>		Evacuation Method:	Bailer ☒	Peristaltic ☐	Bladder ☐										
Total Volume Removed:	(mL or gal)	<u>-</u>		Tubing Used:	Teflon ☐	Polyethylene ☐	<u>N/A</u> ☒										
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106415</u>													
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☒	Peristaltic ☐	Bladder ☐										
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒											
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning on pump): <u>48.48</u>													
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:													
FIELD PARAMETER READINGS:																	
Time	<u>1110</u>																
Rate (mL/min)	<u>-</u>																
Depth to Water (ft. TOC)	<u>48.86</u>																
Temperature (°C)	<u>10.75</u>																
pH	<u>8.28</u>																
Conductivity (mS/cm)	<u>2.67</u>																
Dissolved Oxygen (mg/L)	<u>3.83</u>																
Turbidity (NTU)	<u>1.5</u>																
ORP (mV)	<u>-16</u>																
SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:	Sample ID: <u>EW-B5-20201028</u>			Duplicate ID: <u>207-03-20201028</u>													
Diss. Chromium ☒	Start Time: <u>1114</u>			Sample Time: <u>-</u>													
Diss. Hexavalent Chromium ☒	End Time: <u>1123</u>			Total Bottles: <u>3</u>													
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒			Sampled By: <u>CM</u>													
Free Cyanide ☐	Duplicate: Yes ☒ No ☐			MS/MSD ID: <u>-</u>													
Total Dissolved Solids ☐	Total Bottles: <u>3</u>			Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (no change)</u> <u>NA</u>													
Hardness ☐	Sampled By: <u>CM</u>			UNIT STABILITY													
VOCs (Dichlorobenzenes) ☐				<table border="1"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td><u>+0.1</u></td> <td><u>± 10%</u></td> <td><u>± 10%, <10NTU</u></td> <td><u>± 3%</u></td> <td><u>± 10 mV</u></td> </tr> </table>				pH	DO	Turb.	Cond	ORP	<u>+0.1</u>	<u>± 10%</u>	<u>± 10%, <10NTU</u>	<u>± 3%</u>	<u>± 10 mV</u>
pH	DO	Turb.	Cond	ORP													
<u>+0.1</u>	<u>± 10%</u>	<u>± 10%, <10NTU</u>	<u>± 3%</u>	<u>± 10 mV</u>													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B.</u>		Well ID: <u>TP-4</u>	
Date: <u>10-26-20</u>		Original Install Depth: <u>85</u> feet	
Weather: <u>Rainy 50s</u>		Screen Length: <u>4</u> feet	
Time In: <u>1600</u> Time Out: <u>1755</u>		Well Diameter: <u>2 1"</u> Inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>4.35</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>4.36</u>	Well Locked: Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>12.84</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>10.86</u> <u>8.49</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(ml or gal)	<u>0.34 gal</u>		Pump ID: <u>4052</u>	Pump Size: <u>1/4 x 5/8"</u>	Depth of Pump Intake: <u>10' 4" 8.49</u>	
Pumping Rate of Pump:	(mL/min)	<u>120</u>		Evacuation Method: Baller ☐ Peristaltic ☒ Bladder ☒ Other ☐			
Total Volume Removed:	(ml or gal)	<u>2.75 gal</u>		Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐			
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PCZHMAY9</u>			
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method: Baller ☐ Peristaltic ☒ Bladder ☒ Other ☐			
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>4.52</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg: <u>—</u>			

FIELD PARAMETER READINGS:														
Time	<u>1615</u>	<u>1617</u>	<u>1619</u>	<u>1621</u>	<u>1623</u>	<u>1625</u>	<u>1630</u>	<u>1635</u>	<u>1640</u>	<u>1645</u>	<u>1650</u>	<u>1655</u>	<u>1700</u>	<u>1705</u>
Rate (ml/min)	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>
Depth to Water (ft. TOC)	<u>4.38</u>	<u>4.39</u>	<u>4.41</u>	<u>4.41</u>	<u>4.41</u>	<u>4.42</u>	<u>4.42</u>	<u>4.42</u>	<u>4.42</u>	<u>4.43</u>	<u>4.44</u>	<u>4.45</u>	<u>4.46</u>	<u>4.46</u>
Temperature (°C)	<u>13.59</u>	<u>13.44</u>	<u>13.44</u>	<u>13.42</u>	<u>13.39</u>	<u>13.37</u>	<u>13.26</u>	<u>13.19</u>	<u>13.17</u>	<u>13.12</u>	<u>13.11</u>	<u>13.14</u>	<u>13.11</u>	<u>13.10</u>
pH	<u>7.0</u>	<u>7.73</u>	<u>7.98</u>	<u>8.25</u>	<u>8.43</u>	<u>8.76</u>	<u>8.87</u>	<u>8.98</u>	<u>9.11</u>	<u>9.20</u>	<u>9.34</u>	<u>9.41</u>	<u>9.47</u>	<u>9.52</u>
Conductivity (mS/cm)	<u>0.679</u>	<u>0.683</u>	<u>0.686</u>	<u>0.689</u>	<u>0.691</u>	<u>0.692</u>	<u>0.696</u>	<u>0.697</u>	<u>0.698</u>	<u>0.698</u>	<u>0.699</u>	<u>0.699</u>	<u>0.699</u>	<u>0.700</u>
Dissolved Oxygen (mg/L)	<u>2.51</u>	<u>2.54</u>	<u>2.81</u>	<u>2.71</u>	<u>2.80</u>	<u>2.74</u>	<u>3.07</u>	<u>3.25</u>	<u>3.32</u>	<u>3.33</u>	<u>2.65</u>	<u>2.70</u>	<u>2.81</u>	<u>1.84</u>
Turbidity (NTU)	<u>10.00</u>	<u>7.6</u>	<u>8.9</u>	<u>2.8</u>	<u>1.3</u>	<u>1.6</u>	<u>0.7</u>	<u>1.5</u>	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>	<u>1.2</u>	<u>1.5</u>	<u>2.1</u>
ORP (mV)	<u>121</u>	<u>40</u>	<u>0</u>	<u>-28</u>	<u>-42</u>	<u>-45</u>	<u>-66</u>	<u>-81</u>	<u>-92</u>	<u>-78</u>	<u>-107</u>	<u>-119</u>	<u>-131</u>	<u>-144</u>

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>TP-4-20201026</u>	Duplicate ID:					
Diss. Chromium ☒ Vanadium ☒	Start Time: <u>1737</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: <u>1748</u>	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:	Free Cyanide Sulfide Test Strip: <u>Positive (black) / Negative (no change) NA</u>				
Hardness ☐	Sampled By: <u>HAB</u>	Total Bottles:	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By:	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley Brown</u>		Well ID: <u>IP-4</u>			
Date: <u>10-26-20</u>		Original Install Depth: <u>8.5</u>		feet	
Weather: <u>Drainy 50s</u>		Screen Length: <u>4</u>		feet	
Time In: <u>1600</u> Time Out: <u>1755</u>		Well Diameter: <u>1"</u>		inches	

WELL INFORMATION					
Depth to Water (from TOC):	(feet)	<u>4.35</u>	Well Type:	Flushmount ☒	Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>4.36</u>	Well Locked:	Yes ☒	No ☐
Total Depth (from TOC):	(feet)	<u>12.84</u>	Measuring Point Marked:	Yes ☒	No ☐
Length of Water Column:	(feet)	<u>8.49</u>	Well Condition:	Good ☒	Poor ☐
			Well Condition Comments:		

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>0.349</u>		Pump ID: <u>4052</u>	Pump Size: <u>1/2 x 3/8"</u>	Depth of Pump Intake: <u>102 8.49</u>	
Pumping Rate of Pump:	(mL/min)	<u>120</u>		Evacuation Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Total Volume Removed:	(mL or gal)	<u>2.759</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U62 PC2HMAV9</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>4.52</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg: <u>—</u>			

FIELD PARAMETER READINGS:											
Time	<u>1710</u>	<u>1715</u>	<u>1720</u>	<u>1725</u>	<u>1730</u>	<u>1735</u>					
Rate (mL/min)	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>	<u>120</u>					
Depth to Water (ft. TOC)	<u>4.46</u>	<u>4.47</u>	<u>4.47</u>	<u>4.48</u>	<u>4.49</u>	<u>4.50</u>					
Temperature (°C)	<u>13.08</u>	<u>13.04</u>	<u>13.08</u>	<u>13.10</u>	<u>13.08</u>	<u>13.10</u>					
pH	<u>9.65</u>	<u>9.64</u>	<u>9.68</u>	<u>9.73</u>	<u>9.72</u>	<u>9.79</u>					
Conductivity (mS/cm)	<u>0.701</u>	<u>0.701</u>	<u>0.702</u>	<u>0.702</u>	<u>0.703</u>	<u>0.703</u>					
Dissolved Oxygen (mg/L)	<u>1.66</u>	<u>1.50</u>	<u>1.41</u>	<u>1.34</u>	<u>1.26</u>	<u>1.26</u>					
Turbidity (NTU)	<u>1.8</u>	<u>1.7</u>	<u>1.9</u>	<u>2.0</u>	<u>2.0</u>	<u>1.70</u>					
ORP (mV)	<u>-153</u>	<u>-157</u>	<u>-155</u>	<u>-145</u>	<u>-140</u>	<u>-137</u>					

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>IP-4-20201026</u>	Duplicate ID:						
Diss. Chromium & Vanadium ☒	Start Time: <u>1737</u>	Sample Time:						
Diss. Hexavalent Chromium ☒	End Time: <u>1748</u>	Total Bottles:						
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:						
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:						
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:						
Hardness ☐	Sampled By: <u>HJB</u>	Total Bottles:		Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)				
VOCs (Dichlorobenzenes) ☐		Sampled By:		UNIT STABILITY				
				pH	DO	Turb.	Cond	ORP
				± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody M. P. M.</u>		Well ID: <u>MW-255</u>			
Date: <u>10/25/20</u>		Original Install Depth: <u>39.4</u>		feet	
Weather: <u>36°C Rain</u>		Screen Length: <u>10</u>		feet	
Time In: <u>0841</u>		Time Out: <u>0955</u>		Well Diameter: <u>2"</u>	
				inches	

10/26		10/27		WELL INFORMATION	
Depth to Water (from TOC):	(feet)	<u>27.77</u>	<u>27.44</u>	Well Type:	Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)		<u>27.43</u>	Well Locked:	Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>42.15</u>		Measuring Point Marked:	Yes ☒ No ☐
Length of Water Column:	(feet)	<u>14.71</u>		Well Condition:	Good ☒ Poor ☐
				Well Condition Comments:	

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>9.61</u>		Pump ID:	<u>14312</u>	Pump Size:	<u>1.75"</u>
Pumping Rate of Pump:	(mL/min)	<u>166</u>		Evacuation Method:	Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐	Depth of Pump Intake: <u>37.15</u>	
Total Volume Removed:	(mL or gal)	<u>3.0</u>		Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106.0243</u>			
Tubing Volume per foot	0.003	11.35	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐		
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐ No ☒		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>28.99</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:												
Time	0900	0902	0904	0906	0908	0910	0915	0920	0925	0930	0935	
Rate (mL/min)	166	166	166	166	166	166	166	166	166	166	166	
Depth to Water (ft. TOC)	<u>27.62</u>	<u>27.80</u>	<u>28.03</u>	<u>28.07</u>	<u>28.10</u>	<u>28.14</u>	<u>28.15</u>	<u>28.56</u>	<u>28.68</u>	<u>28.77</u>	<u>28.86</u>	
Temperature (°C)	<u>10.26</u>	<u>10.20</u>	<u>10.15</u>	<u>10.14</u>	<u>10.13</u>	<u>10.10</u>	<u>10.00</u>	<u>9.95</u>	<u>9.92</u>	<u>9.87</u>	<u>9.87</u>	
pH	<u>7.72</u>	<u>8.23</u>	<u>8.59</u>	<u>8.63</u>	<u>8.69</u>	<u>8.75</u>	<u>8.81</u>	<u>8.85</u>	<u>8.86</u>	<u>8.88</u>	<u>8.87</u>	
Conductivity (mS/cm)	<u>0.686</u>	<u>0.684</u>	<u>0.683</u>	<u>0.684</u>	<u>0.684</u>	<u>0.684</u>	<u>0.686</u>	<u>0.688</u>	<u>0.688</u>	<u>0.689</u>	<u>0.690</u>	
Dissolved Oxygen (mg/L)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	
Turbidity (NTU)	<u>5.6</u>	<u>3.0</u>	<u>2.8</u>	<u>3.5</u>	<u>2.3</u>	<u>2.0</u>	<u>1.9</u>	<u>1.3</u>	<u>1.7</u>	<u>1.1</u>	<u>1.0</u>	
ORP (mV)	<u>-174</u>	<u>-235</u>	<u>-259</u>	<u>-266</u>	<u>-267</u>	<u>-271</u>	<u>-283</u>	<u>-286</u>	<u>-291</u>	<u>-294</u>	<u>-296</u>	

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>MW-255-20201028</u>	Duplicate ID:		Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>				
Diss. Chromium & Vanadium ☒	Start Time: <u>0940</u>	Sample Time:						
Diss. Hexavalent Chromium ☒	End Time: <u>0947</u>	Total Bottles:						
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:						
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:						
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:						
Hardness ☐	Sampled By: <u>CM</u>	Total Bottles:		UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By:		pH	DO	Turb.	Cond	ORP
				± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B.</u>		Well ID: <u>AW-26</u>	
Date: <u>10-27-20</u>		Original Install Depth: <u>~8</u> feet	
Weather: <u>Cloudy</u>		Screen Length: <u>5</u> feet	
Time In: <u>1325</u> Time Out: <u>1510</u>		Well Diameter: <u>2</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26 11.22</u>	<u>10/27 11.20</u>
Depth to Water (from TOC) With Pump in place:	(feet)	<u>11.20</u>	<u>11.20</u>
Total Depth (from TOC):	(feet)	<u>13.31</u>	
Length of Water Column:	(feet)	<u>2.11</u>	
Well Type: Flushmount ☒ Stick-Up ☐			
Well Locked: Yes ☒ No ☐			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>0.34</u>		Pump ID:	<u>4068</u>	Pump Size:	<u>1/4 x 3/8</u>
Pumping Rate of Pump:	(mL/min)	<u>100</u>		Evacuation Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Total Volume Removed:	(mL or gal)	<u>1.20</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PC2HMAV9</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☒	Bladder ☐ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>11.58</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:													
Time	<u>1400</u>	<u>1402</u>	<u>1404</u>	<u>1406</u>	<u>1408</u>	<u>1410</u>	<u>1415</u>	<u>1420</u>	<u>1425</u>	<u>1430</u>	<u>1435</u>	<u>1440</u>	<u>1445</u>
Rate (ml/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
Depth to Water (ft. TOC)	<u>11.37</u>	<u>11.40</u>	<u>11.41</u>	<u>11.41</u>	<u>11.42</u>	<u>11.45</u>	<u>11.48</u>	<u>11.50</u>	<u>11.52</u>	<u>11.52</u>	<u>11.53</u>	<u>11.54</u>	<u>11.55</u>
Temperature (°C)	<u>18.89</u>	<u>17.55</u>	<u>17.40</u>	<u>17.07</u>	<u>16.88</u>	<u>16.62</u>	<u>16.03</u>	<u>15.56</u>	<u>15.35</u>	<u>15.11</u>	<u>14.83</u>	<u>14.68</u>	<u>14.50</u>
pH	<u>4.63</u>	<u>4.55</u>	<u>4.55</u>	<u>4.38</u>	<u>4.30</u>	<u>4.27</u>	<u>4.23</u>	<u>4.48</u>	<u>10.44</u>	<u>10.64</u>	<u>10.88</u>	<u>10.76</u>	<u>10.98</u>
Conductivity (mS/cm)	<u>0.884</u>	<u>0.900</u>	<u>0.902</u>	<u>0.910</u>	<u>0.911</u>	<u>0.909</u>	<u>0.915</u>	<u>0.919</u>	<u>0.919</u>	<u>0.921</u>	<u>0.912</u>	<u>0.920</u>	<u>0.917</u>
Dissolved Oxygen (mg/L)	<u>1.03</u>	<u>1.036</u>	<u>1.028</u>	<u>1.12</u>	<u>1.05</u>	<u>1.08</u>	<u>1.059</u>	<u>1.042</u>	<u>0.86</u>	<u>0.78</u>	<u>0.78</u>	<u>0.80</u>	<u>0.77</u>
Turbidity (NTU)	<u>14.1</u>	<u>13.5</u>	<u>14.1</u>	<u>13.1</u>	<u>15.8</u>	<u>15.2</u>	<u>15.6</u>	<u>9.0</u>	<u>6.7</u>	<u>4.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.8</u>
ORP (mV)	<u>-54</u>	<u>-63</u>	<u>-63</u>	<u>-58</u>	<u>-56</u>	<u>-56</u>	<u>-70</u>	<u>-77</u>	<u>-78</u>	<u>-80</u>	<u>-78</u>	<u>-75</u>	<u>-72</u>

SAMPLE INFORMATION				OBSERVATIONS (water color, clarity, etc.):													
Sample List:	Sample ID: <u>AW-26-20201027</u>	Duplicate ID:		Free Cyanide Sulfide Test Strip: <u>Positive (check) / Negative (No change)</u> <u>NA</u>													
Diss. Chromium ☒ and Sulfide	Start Time: <u>1446</u>	Sample Time:															
Diss. Hexavalent Chromium ☒	End Time: <u>1456</u>	Total Bottles:															
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:															
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:															
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:															
Hardness ☐	Sampled By: <u>HB</u>	Total Bottles:		UNIT STABILITY <table border="1"> <thead> <tr> <th>pH</th> <th>DO</th> <th>Turb.</th> <th>Cond</th> <th>ORP</th> </tr> </thead> <tbody> <tr> <td>± 0.1</td> <td>± 1.0%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </tbody> </table>				pH	DO	Turb.	Cond	ORP	± 0.1	± 1.0%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond					ORP									
± 0.1	± 1.0%	± 10%, <10 NTU	± 3%					± 10 mV									
VOCs (Dichlorobenzenes) ☐		Sampled By:															

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B.</u>		Well ID: <u>MW-28</u>	
Date: <u>10-27-20</u>		Original Install Depth: <u>~12</u> feet	
Weather: <u>Cloudy 40s</u>		Screen Length: <u>5</u> feet	
Time In: <u>1115</u> Time Out: <u>1230</u>		Well Diameter: <u>2</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>10.26</u> <u>10.67</u>	Well Type:	Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place: (feet)	<u>1.21</u>	Well Locked:	Yes ☒ No ☐
Total Depth (from TOC): (feet)	<u>11.49</u>	Measuring Point Marked:	Yes ☒ No ☐
Length of Water Column: (feet)	<u>10.46</u>	Well Condition:	Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	<u>1.70</u>			Pump ID: <u>4068</u>	Pump Size: <u>1/4 x 3/8"</u>	Depth of Pump Intake: <u>8.74</u> <u>9.29</u>	
Pumping Rate of Pump: (mL/min)	<u>100</u>			Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐		
Total Volume Removed: (mL or gal)	<u>1.70</u>			Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52</u> <u>PCZHAMAV4</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐		
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒ No ☐		
	0.163	615.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>DRY</u>			
	0.553	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>1127</u>	<u>1128</u>	<u>1131</u>	<u>1133</u>	<u>1135</u>	<u>1137</u>	<u>1142</u>	<u>1147</u>	<u>1152</u>	<u>1157</u>	<u>1202</u>	<u>1207</u>	<u>1212</u>	<u>1217</u>
Rate (mL/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>		<u>100</u>	<u>100</u>	<u>100</u>
Depth to Water (ft. TOC)	<u>2.44</u>	<u>2.81</u>	<u>3.26</u>	<u>3.51</u>	<u>3.96</u>	<u>4.34</u>	<u>5.31</u>	<u>6.37</u>	<u>7.41</u>	<u>8.52</u>		<u>9.61</u>	<u>10.52</u>	<u>10.96</u>
Temperature (°C)	<u>14.91</u>	<u>14.92</u>	<u>14.90</u>	<u>14.88</u>	<u>14.87</u>	<u>14.87</u>	<u>14.90</u>	<u>14.94</u>	<u>14.88</u>	<u>14.83</u>		<u>13.40</u>	<u>13.95</u>	<u>13.05</u>
pH	<u>8.11</u>	<u>7.78</u>	<u>7.73</u>	<u>7.72</u>	<u>7.70</u>	<u>7.67</u>	<u>7.64</u>	<u>7.61</u>	<u>7.61</u>	<u>7.62</u>		<u>7.63</u>	<u>7.60</u>	<u>7.61</u>
Conductivity (mS/cm)	<u>0.369</u>	<u>0.370</u>	<u>0.369</u>	<u>0.369</u>	<u>0.367</u>	<u>0.367</u>	<u>0.367</u>	<u>0.364</u>	<u>0.364</u>	<u>0.365</u>		<u>0.363</u>	<u>0.371</u>	<u>0.369</u>
Dissolved Oxygen (mg/L)	<u>2.31</u>	<u>2.63</u>	<u>2.25</u>	<u>2.10</u>	<u>1.94</u>	<u>1.90</u>	<u>2.08</u>	<u>2.61</u>	<u>2.64</u>	<u>2.74</u>		<u>3.53</u>	<u>3.47</u>	<u>3.72</u>
Turbidity (NTU)	<u>95.3</u>	<u>94.3</u>	<u>90.1</u>	<u>90.0</u>	<u>67.6</u>	<u>47.7</u>	<u>40.0</u>	<u>36.5</u>	<u>35.1</u>	<u>31.7</u>		<u>26.9</u>	<u>27.0</u>	<u>26.0</u>
ORP (mV)	<u>176</u>	<u>157</u>	<u>165</u>	<u>170</u>	<u>179</u>	<u>176</u>	<u>177</u>	<u>183</u>	<u>183</u>	<u>183</u>		<u>184</u>	<u>168</u>	<u>170</u>

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID:	Duplicate ID:	Clean flow cell @ 1158 turn pump back on @ 1203 + deploy tubing to 11:70				
Diss. Chromium ☒	Start Time: <u>NS</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time:	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles:	Sample Time:					
Hardness ☐	Sampled By: <u>NS</u>	Total Bottles:	Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change) <u>NA</u>				
VOCs (Dichlorobenzenes) ☐	Sampled By:		UNIT STABILITY				
			pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Halley B.</u>		Well ID: <u>MW-28</u>	
Date: <u>10-27-20</u>		Original Install Depth: <u>~12</u> feet	
Weather: <u>Cloudy 40s</u>		Screen Length: <u>5</u> feet	
Time In: <u>1115</u> Time Out: <u>1230</u>		Well Diameter: <u>2</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26 10/27</u> <u>1.23 1.33</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>1.21</u>	Well Locked: Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>11.74</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>10.46</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION		EVACUATION INFORMATION	
Volume of Water in Well:	(ml or gal)	<u>1.70</u>	Pump ID: <u>4068</u> Pump Size: <u>1/2 x 3/8"</u> Depth of Pump Intake: <u>9.28</u>
Pumping Rate of Pump:	(ml/min)	<u>100</u>	Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other ☐
Total Volume Removed:	(ml or gal)	<u>1.70</u>	Tubing Used: Teflon ☐ Polyethylene ☐ N/A ☐
Volume Measurements	(gal)	(ml)	Tubing/Well Size
Tubing Volume per foot	0.003	11.36	1/4" ID tubing
Well Volume per foot	0.041	155.18	1" diam. well
	0.163	616.95	2" diam. well
	0.653	2,471.60	4" diam. well

FIELD PARAMETER READINGS:	
Time	<u>1212</u>
Rate (ml/min)	<u>100</u>
Depth to Water (ft. TOC)	<u>11.37</u>
Temperature (°C)	<u>13.05</u>
pH	<u>7.62</u>
Conductivity (mS/cm)	<u>0.372</u>
Dissolved Oxygen (mg/L)	<u>3.97</u>
Turbidity (NTU)	<u>25.7</u>
ORP (mV)	<u>182</u>

SAMPLE INFORMATION		OBSERVATIONS (water color, clarity, etc.):											
Sample List:	Sample ID: <u>NS</u>	Duplicate ID:	<u>Clean Flow Cell @ USB turn pump back on @ 1203 + deploy tubing to 11.70</u> Free Cyanide Sulfide Test Strip: <u>Negative (black) / Negative (NO change)</u> <u>MA</u>										
Diss. Chromium ☒	Start Time: <u>NS</u>	Sample Time:											
Diss. Hexavalent Chromium ☒	End Time:	Total Bottles:											
Total Cyanide ☒	MS/MSD: Yes ☐ No ☐	Sampled By:											
Free Cyanide ☐	Duplicate: Yes ☐ No ☐	MS/MSD ID:											
Total Dissolved Solids ☐	Total Bottles:	Sample Time:	UNIT STABILITY <table border="1"> <thead> <tr> <th>pH</th> <th>DO</th> <th>Turb.</th> <th>Cond</th> <th>ORP</th> </tr> </thead> <tbody> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </tbody> </table>	pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.		Cond	ORP								
± 0.1	± 10%	± 10%, <10 NTU		± 3%	± 10 mV								
Hardness ☐	Sampled By: <u>NS</u>	Total Bottles:											
VOCs (Dichlorobenzenes) ☐		Sampled By:											

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Adorpin</u>		Well ID: <u>MW-31</u>	
Date: <u>10/27/20</u>		Original Install Depth: <u>15.0</u> feet	
Weather: <u>50's mostly cloudy</u>		Screen Length: <u>5</u> feet	
Time In: <u>0855</u> Time Out: <u>1029</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26</u> <u>9.26</u>	<u>10/27</u> <u>8.30</u>
Depth to Water (From TOC) With Pump in place:	(feet)		<u>8.31</u>
Total Depth (from TOC):	(feet)	<u>17.12</u>	
Length of Water Column:	(feet)	<u>8.81</u>	
Well Type:		Flushmount ☐	Stick-Up ☒
Well Locked:		Yes ☐	No ☒
Measuring Point Marked:		Yes ☒	No ☐
Well Condition:		Good ☒	Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(ml or gal)	<u>1.43</u>		Pump ID: <u>14310</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>14.62</u>	
Pumping Rate of Pump:	(mL/min)	<u>155</u>		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Total Volume Removed:	(mL or gal)	<u>3.5</u>		Tubing Used:	Teflon ☒	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 W4106 UVR</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>8.56</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>0914</u>	<u>0916</u>	<u>0918</u>	<u>0920</u>	<u>0922</u>	<u>0924</u>	<u>0929</u>	<u>0934</u>	<u>0939</u>	<u>0944</u>	<u>0949</u>	<u>0954</u>	<u>0959</u>	
Rate (ml/min)	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	<u>155</u>	
Depth to Water (ft. TOC)	<u>8.48</u>	<u>8.46</u>	<u>8.49</u>	<u>8.49</u>	<u>8.50</u>	<u>8.51</u>	<u>8.52</u>	<u>8.53</u>	<u>8.54</u>	<u>8.55</u>	<u>8.55</u>	<u>8.55</u>	<u>8.55</u>	
Temperature (°C)	<u>11.67</u>	<u>11.76</u>	<u>11.79</u>	<u>11.91</u>	<u>12.03</u>	<u>12.12</u>	<u>12.19</u>	<u>12.23</u>	<u>12.26</u>	<u>12.30</u>	<u>12.29</u>	<u>12.34</u>	<u>12.38</u>	
pH	<u>6.69</u>	<u>7.06</u>	<u>7.09</u>	<u>7.12</u>	<u>7.14</u>	<u>7.14</u>	<u>7.12</u>	<u>7.07</u>	<u>7.03</u>	<u>7.01</u>	<u>6.99</u>	<u>6.97</u>	<u>6.97</u>	
Conductivity (mS/cm)	<u>1.14</u>	<u>1.13</u>	<u>1.12</u>	<u>1.10</u>	<u>1.07</u>	<u>1.06</u>	<u>1.05</u>	<u>1.05</u>	<u>1.05</u>	<u>1.05</u>	<u>1.05</u>	<u>1.05</u>	<u>1.05</u>	
Dissolved Oxygen (mg/L)	<u>1.44</u>	<u>0.61</u>	<u>0.14</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	
Turbidity (NTU)	<u>4.9</u>	<u>0.5</u>	<u>0.0</u>	<u>0.0</u>	<u>0.6</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	
ORP (mV)	<u>-137</u>	<u>-216</u>	<u>-223</u>	<u>-237</u>	<u>-246</u>	<u>-250</u>	<u>-257</u>	<u>-263</u>	<u>-268</u>	<u>-276</u>	<u>-288</u>	<u>-291</u>	<u>-295</u>	

SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:		Sample ID: <u>MW-31-20201027</u>		Duplicate ID:													
Diss. Chromium ☒		Start Time: <u>1004</u>		Sample Time:													
Diss. Hexavalent Chromium ☒		End Time: <u>1012</u>		Total Bottles:													
Total Cyanide ☒		MS/MSD: Yes ☐ No ☒		Sampled By:													
Free Cyanide ☐		Duplicate: Yes ☐ No ☒		MS/MSD ID:													
Total Dissolved Solids ☐		Total Bottles: <u>3</u>		Sample Time:													
Hardness ☐		Sampled By: <u>CM</u>		Total Bottles:													
VOCs (Dichlorobenzenes) ☐				Sampled By:													
				Free Cyanide Sulfide Test Strip: <u>Negative (Black) / Negative (No change)</u> <u>NA</u>													
				UNIT STABILITY													
				<table border="1"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>				pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Garrett L.</u>		Well ID: <u>MW-0814</u>	
Date: <u>10/26/2020</u>		Original Install Depth: <u>180</u> feet	
Weather: <u>Cloudy and Rainy</u>		Screen Length: <u>10</u> feet	
Time In: <u>1600</u> Time Out: <u>1900</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>11.1</u>	Well Type:	Flushmount ☒ Stick-Up ☐
Depth to Water (from TOC) With Pump in place: (feet)	<u>10.52</u>	Well Locked:	Yes ☒ No ☐
Total Depth (from TOC): (feet)	<u>20.36</u>	Measuring Point Marked:	Yes ☒ No ☐
Length of Water Column: (feet)	<u>9.25</u>	Well Condition:	Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	<u>1.51 gal</u>			Pump ID: <u>14311</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>15.74</u>	
Pumping Rate of Pump: (mL/min)	<u>150</u>			Evacuation Method:	Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐		
Total Volume Removed: (mL or gal)	<u>2 gallons</u>			Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Volume Measurements (gal)	(mL)	Tubing/Well Size		Water Quality Meter (type/Serial Number): <u>Han: 64 V-52 45KT 5720</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☐ Bladder ☒ Other ☐		
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐ No ☒		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>16.55</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>1629</u>	<u>1631</u>	<u>1633</u>	<u>1635</u>	<u>1637</u>	<u>1639</u>	<u>1644</u>	<u>1649</u>	<u>1654</u>	<u>1659</u>	<u>1704</u>	<u>1709</u>	<u>1714</u>	<u>1719</u>
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>
Depth to Water (ft. TOC)	<u>12.31</u>	<u>12.73</u>	<u>12.95</u>	<u>13.12</u>	<u>13.30</u>	<u>13.52</u>	<u>13.92</u>	<u>14.32</u>	<u>14.61</u>	<u>14.62</u>	<u>14.62</u>	<u>14.64</u>	<u>14.74</u>	<u>15.05</u>
Temperature (°C)	<u>12.76</u>	<u>12.66</u>	<u>12.60</u>	<u>12.56</u>	<u>12.54</u>	<u>12.55</u>	<u>12.54</u>	<u>12.53</u>	<u>12.47</u>	<u>12.38</u>	<u>12.28</u>	<u>12.22</u>	<u>12.24</u>	<u>12.37</u>
pH	<u>8.15</u>	<u>9.25</u>	<u>9.57</u>	<u>9.69</u>	<u>9.78</u>	<u>9.80</u>	<u>9.60</u>	<u>9.37</u>	<u>9.18</u>	<u>9.05</u>	<u>9.02</u>	<u>8.98</u>	<u>8.97</u>	<u>9.20</u>
Conductivity (mS/cm)	<u>0.2970</u>	<u>0.504</u>	<u>0.472</u>	<u>0.456</u>	<u>0.386</u>	<u>0.322</u>	<u>0.256</u>	<u>0.247</u>	<u>0.262</u>	<u>0.343</u>	<u>0.384</u>	<u>0.426</u>	<u>0.460</u>	<u>0.479</u>
Dissolved Oxygen (mg/L)	<u>3.43</u>	<u>1.99</u>	<u>1.69</u>	<u>1.64</u>	<u>1.87</u>	<u>2.14</u>	<u>2.54</u>	<u>3.06</u>	<u>3.21</u>	<u>3.59</u>	<u>4.05</u>	<u>5.26</u>	<u>5.87</u>	<u>5.79</u>
Turbidity (NTU)	<u>9.3</u>	<u>10.8</u>	<u>10.6</u>	<u>10.2</u>	<u>10.2</u>	<u>10.1</u>	<u>9.9</u>	<u>8.6</u>	<u>5.1</u>	<u>3.6</u>	<u>3.2</u>	<u>2.6</u>	<u>1.6</u>	<u>2.0</u>
ORP (mV)	<u>-31</u>	<u>-46</u>	<u>-42</u>	<u>-41</u>	<u>-33</u>	<u>-14</u>	<u>12</u>	<u>31</u>	<u>49</u>	<u>62</u>	<u>68</u>	<u>76</u>	<u>68</u>	<u>14</u>

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>MW-0814 20201026</u>	Duplicate ID:	<u>Not Sampled - Ran out of daylight / Pump lowered 1' NA time</u>				
Diss. Chromium & Vanadium ☒	Start Time: <u>15</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: <u>15</u>	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:					
Hardness ☐	Sampled By: <u>LC</u>	Total Bottles:	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By:	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Garnett C.</u>				Well ID: <u>MW-DBV</u>	
Date: <u>10/26/2020</u>				Original Install Depth: <u>18.0</u> feet	
Weather: <u>Cloudy 40's</u>				Screen Length: <u>10'</u> feet	
Time In: <u>1600</u>		Time Out: <u>1700</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION					
Depth to Water (from TOC):	(feet)	<u>11.1</u>	Well Type:	Flushmount ☒	Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>10.52</u>	Well Locked:	Yes ☒	No ☐
Total Depth (from TOC):	(feet)	<u>20.36</u>	Measuring Point Marked:	Yes ☒	No ☐
Length of Water Column:	(feet)	<u>9.25</u>	Well Condition:	Good ☒	Poor ☐
			Well Condition Comments:		

WELL WATER INFORMATION			EVACUATION INFORMATION		
Volume of Water in Well:	(mL or gal)	<u>1.51 gal</u>	Pump ID: <u>14311</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>15.74</u>
Pumping Rate of Pump:	(mL/min)	<u>150</u>	Evacuation Method:	Ballor ☐	Peristaltic ☐
Total Volume Removed:	(mL or gal)	<u>2 gallons</u>	Tubing Used:	Teflon ☐	Polyethylene ☒
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Hori-ba 10-52 45K1572F</u>	
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Ballor ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump):	<u>16.55</u>
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:	

FIELD PARAMETER READINGS:														
Time	<u>1724</u>	<u>1729</u>	<u>1734</u>	<u>1739</u>	<u>1744</u>	<u>1749</u>	<u>1754</u>	<u>1759</u>	<u>1804</u>	<u>1809</u>	<u>1814</u>	<u>1819</u>	<u>1824</u>	<u>1829</u>
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>
Depth to Water (ft. TOC)	<u>15.10</u>	<u>15.17</u>	<u>15.36</u>	<u>15.40</u>	<u>15.48</u>	<u>15.57</u>	<u>15.60</u>	<u>15.70</u>	<u>15.78</u>	<u>15.85</u>	<u>15.85</u>	<u>15.90</u>	<u>15.90</u>	<u>15.95</u>
Temperature (°C)	<u>12.23</u>	<u>12.22</u>	<u>12.25</u>	<u>12.23</u>	<u>12.20</u>	<u>12.20</u>	<u>12.19</u>	<u>12.15</u>	<u>12.12</u>	<u>11.94</u>	<u>11.75</u>	<u>11.56</u>	<u>11.50</u>	<u>11.46</u>
pH	<u>9.69</u>	<u>9.75</u>	<u>9.80</u>	<u>9.98</u>	<u>10.15</u>	<u>10.19</u>	<u>10.18</u>	<u>10.10</u>	<u>9.99</u>	<u>9.86</u>	<u>9.76</u>	<u>9.81</u>	<u>9.93</u>	<u>10.04</u>
Conductivity (mS/cm)	<u>0.515</u>	<u>0.526</u>	<u>0.534</u>	<u>0.545</u>	<u>0.554</u>	<u>0.558</u>	<u>0.562</u>	<u>0.564</u>	<u>0.563</u>	<u>0.564</u>	<u>0.566</u>	<u>0.561</u>	<u>0.561</u>	<u>0.563</u>
Dissolved Oxygen (mg/L)	<u>6.14</u>	<u>5.97</u>	<u>5.21</u>	<u>4.60</u>	<u>4.10</u>	<u>3.65</u>	<u>3.14</u>	<u>3.08</u>	<u>3.42</u>	<u>4.69</u>	<u>4.59</u>	<u>4.93</u>	<u>5.14</u>	<u>4.84</u>
Turbidity (NTU)	<u>3.5</u>	<u>2.1</u>	<u>2.0</u>	<u>1.7</u>	<u>2.6</u>	<u>2.2</u>	<u>2.2</u>	<u>2.0</u>	<u>2.1</u>	<u>1.9</u>	<u>1.2</u>	<u>1.0</u>	<u>1.5</u>	<u>2.0</u>
ORP (mV)	<u>-25</u>	<u>-21</u>	<u>-30</u>	<u>-44</u>	<u>-63</u>	<u>-64</u>	<u>-61</u>	<u>-51</u>	<u>-35</u>	<u>-23</u>	<u>-13</u>	<u>-29</u>	<u>-44</u>	<u>-64</u>

SAMPLE INFORMATION				OBSERVATIONS (water color, clarity, etc.):			
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐	Sample ID: <u>NS</u>	Duplicate ID:	Not Sampled - Ran out of day light time Pump lowered 1'				
	Start Time: <u>NS</u>	Sample Time:					
	End Time: <u>NS</u>	Total Bottles:					
	MS/MSD: Yes ☐ No ☒	Sampled By:					
	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Bottles: <u>NS</u>	Sample Time:	Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>					
Sampled By: <u>NS</u>	Total Bottles:						
			UNIT STABILITY				
			pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Gannett L</u>		Well ID: <u>MW-0814</u>	
Date: <u>10/26/2020</u>		Original Install Depth: <u>18.0</u> feet	
Weather: <u>cloudy 40c</u>		Screen Length: <u>10</u> feet	
Time In: <u>1600</u> Time Out: <u>1900</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>11.11</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>10.52</u>	Well Locked: Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>20.36</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>9.25</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>1.51 gal</u>		Pump ID: <u>14311</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>15.74</u>	
Pumping Rate of Pump:	(mL/min)	<u>150</u>		Evacuation Method: Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐			
Total Volume Removed:	(mL or gal)	<u>2 gal/10m</u>		Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐			
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba 0-52 USKT572F</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>16.55</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:												
Time	<u>1830</u>	<u>1839</u>	<u>1844</u>	<u>1849</u>	<u>1854</u>							
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>							
Depth to Water (ft. TOC)	<u>15.97</u>	<u>16.25</u>	<u>16.35</u>	<u>16.45</u>	<u>16.55</u>							
Temperature (°C)	<u>11.31</u>	<u>11.27</u>	<u>11.22</u>	<u>11.17</u>	<u>11.12</u>							
pH	<u>10.15</u>	<u>10.28</u>	<u>10.35</u>	<u>10.37</u>	<u>10.39</u>							
Conductivity (mS/cm)	<u>0.568</u>	<u>0.576</u>	<u>0.586</u>	<u>0.597</u>	<u>0.604</u>							
Dissolved Oxygen (mg/L)	<u>4.32</u>	<u>3.63</u>	<u>3.46</u>	<u>3.68</u>	<u>2.30</u>							
Turbidity (NTU)	<u>2.4</u>	<u>2.0</u>	<u>1.8</u>	<u>2.1</u>	<u>2.2</u>							
ORP (mV)	<u>-77</u>	<u>-81</u>	<u>-87</u>	<u>-91</u>	<u>-91</u>							

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>NS</u>	Duplicate ID:	<u>Not Sampled - Ran out of day light/time</u> Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NS</u>				
Diss. Chromium & Vanadium ☒	Start Time: <u>NS</u>	Sample Time:					
Diss. Hexavalent Chromium ☒	End Time: <u>NS</u>	Total Bottles:					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:					
Total Dissolved Solids ☐	Total Bottles: <u>NS</u>	Sample Time:	UNIT STABILITY				
Hardness ☐	Sampled By: <u>NS</u>	Total Bottles:	pH	DO	Turb.	Cond	ORP
VOCs (Dichlorobenzenes) ☐		Sampled By:	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>SS</u>				Well ID: <u>MW-0014</u>			
Date: <u>10/27/2020</u>				Original Install Depth: <u>16.0</u>		feet	
Weather: <u>overcast 45°F</u>				Screen Length: <u>10</u>		feet	
Time In: <u>850</u> Time Out: <u>1035</u>				Well Diameter: <u>2"</u>		inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>11.1</u>	<u>11.43</u>
Depth to Water (From TOC) With Pump in place:	(feet)	<u>11.51</u>	
Total Depth (from TOC):	(feet)	<u>20.36</u>	
Length of Water Column:	(feet)	<u>4.2505</u>	<u>8.93</u>
Well Type: Flushmount ☒ Stick-Up ☐			
Well Locked: Yes ☒ No ☐			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>1.50 gal</u>		Pump ID: <u>14311</u>	Pump Size: <u>1.75"</u>	Depth of Pump Intake: <u>24.83</u>	
Pumping Rate of Pump:	(mL/min)	<u>150</u>		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Total Volume Removed:	(mL or gal)	<u>4 gal</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA 32924</u> (<u>U-52</u>) <u>45KT572P</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒ No ☐		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump):			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	902	904	906	908	910	915	920	925	930	935	940	945	950	955
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Depth to Water (ft. TOC)	11.73	13.01	13.08	13.08	13.10	13.13	13.20	13.25	13.28	13.33	13.36	13.28	13.30	15.78
Temperature (°C)	11.92	11.81	11.74	11.77	11.80	11.91	11.73	11.36	11.15	11.01	10.92	11.75	10.61	10.51
pH	7.47	8.29	8.61	8.69	8.72	8.63	8.64	8.66	8.70	8.80	8.87	8.90	8.94	9.03
Conductivity (mS/cm)	0.597	0.594	0.591	0.589	0.586	0.606	0.624	0.635	0.653	0.661	0.669	0.677	0.678	0.698
Dissolved Oxygen (mg/L)	11.60	6.42	6.76	6.90	6.83	6.59	6.42	8.60	7.01	8.32	9.30	8.95	7.70	6.41
Turbidity (NTU)	6.7	6.9	6.6	5.4	5.0	4.0	4.0	4.4	4.0	3.7	3.4	3.5	3.4	3.5
ORP (mV)	106	87	92	97	101	109	107	107	103	102	104	100	101	97

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>MW-0014 20201027</u>	Duplicate ID:		<u>NOT SAMPLED - DRY</u>				
Diss. Chromium ☒ Hexavalent Chromium ☒	Start Time: <u>NS</u>	Sample Time:						
Total Cyanide ☒	End Time: <u>NS</u>	Total Bottles:						
Free Cyanide ☐	MS/MSD: Yes ☐ No ☒	Sampled By:						
Total Dissolved Solids ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:						
Hardness ☐	Total Bottles: <u>3</u>	Sample Time:		Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>				
VOCs (Dichlorobenzenes) ☐	Sampled By: <u>GL</u>	Total Bottles:		UNIT STABILITY				
		Sampled By:		pH	DO	Turb.	Cond.	ORP
				± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS</u>				Well ID: <u>MW-084</u>			
Date: <u>10/27/2020</u>				Original Install Depth: <u>18.0</u>		feet	
Weather: <u>overcast 45°</u>				Screen Length: <u>10</u>		feet	
Time In: <u>850</u> Time Out: <u>1035</u>				Well Diameter: <u>2"</u>		Inches	

<u>10/26</u> <u>10/27</u>				<u>WELL INFORMATION</u>			
Depth to Water (from TOC):	(feet)	<u>11.11</u>	<u>11.43</u>	Well Type:	Flushmount ☒	Stick-Up ☐	
Depth to Water (From TOC) With Pump in place:	(feet)	<u>11.51</u>		Well Locked:	Yes ☒	No ☐	
Total Depth (from TOC):	(feet)	<u>20.36</u>		Measuring Point Marked:	Yes ☒	No ☐	
Length of Water Column:	(feet)	<u>9.255</u>	<u>8.93</u>	Well Condition:	Good ☒	Poor ☐	
				Well Condition Comments:			

<u>WELL WATER INFORMATION</u>				<u>EVACUATION INFORMATION</u>			
Volume of Water in Well:	(mL or gal)	<u>1.50 gal</u>		Pump ID:	<u>14311</u>	Pump Size:	<u>1.75"</u>
Pumping Rate of Pump:	(mL/min)	<u>150</u>		Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Total Volume Removed:	(mL or gal)	<u>4 gal</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA 32924</u> <u>(U-52) 48RTS72F</u>			
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☒
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒	No ☐	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>18.10</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

<u>FIELD PARAMETER READINGS:</u>											
Time	<u>1000</u>	<u>1005</u>	<u>1010</u>	<u>1015</u>							
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>							
Depth to Water (ft. TOC)	<u>16.65</u>	<u>17.20</u>	<u>17.75</u>	<u>18.10</u>							
Temperature (°C)	<u>10.58</u>	<u>10.63</u>	<u>10.65</u>	<u>10.68</u>							
pH	<u>9.11</u>	<u>9.18</u>	<u>9.23</u>	<u>9.37</u>							
Conductivity (mS/cm)	<u>0.676</u>	<u>0.663</u>	<u>0.652</u>	<u>0.654</u>							
Dissolved Oxygen (mg/L)	<u>5.47</u>	<u>7.20</u>	<u>6.72</u>	<u>6.38</u>							
Turbidity (NTU)	<u>3.3</u>	<u>3.1</u>	<u>2.8</u>	<u>2.9</u>							
ORP (mV)	<u>86</u>	<u>74</u>	<u>52</u>	<u>32</u>							

<u>SAMPLE INFORMATION</u>				Observations (water color, clarity, etc.):			
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐	Sample ID:	<u>NS</u>	Duplicate ID:	<u>NOT SAMPLED - DRY</u> <u>NA</u>			
	Start Time:	<u>NS</u>	Sample Name:				
	End Time:	<u>NS</u>	Total Bottles:				
	MS/MSD: Yes ☐ No ☐	Sampled By:					
	Duplicate: Yes ☐ No ☐	MS/MSD ID:					
	Total Bottles:	Sample Time:					
	Sampled By:	Total Bottles:					
		Sampled By:					

<u>UNIT STABILITY</u>				
pH	DO	Turb.	Cond	ORP
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>		Well ID: <u>MW-0814</u>	
Date: <u>10/28/20</u>		Original Install Depth: <u>18.0</u> feet	
Weather: <u>40° Clearcast</u>		Screen Length: <u>10</u> feet	
Time In: <u>1210</u> Time Out: <u>1326</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26</u> <u>11.11</u>	<u>10/28</u> <u>11.52</u>
Depth to Water (From TOC) With Pump in place:	(feet)		<u>10.75</u>
Total Depth (from TOC):	(feet)	<u>20.36</u>	
Length of Water Column:	(feet)	<u>8.84</u>	
Well Type:	Flushmount ☒ Stick-Up ☐		
Well Locked:	Yes ☐ No ☒		
Measuring Point Marked:	Yes ☒ No ☐		
Well Condition:	Good ☒ Poor ☐		
Well Condition Comments:			

WELL WATER INFORMATION		EVACUATION INFORMATION	
Volume of Water in Well:	(ml or gal)	<u>1.44</u>	
Pumping Rate of Pump:	(ml/min)	<u>110</u>	
Total Volume Removed:	(ml or gal)	<u>1.5</u>	
Pump ID:	<u>14310</u>	Pump Size:	<u>1.75"</u>
Evacuation Method:	Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐	Depth of Pump Intake:	<u>15.94 → 18'</u>
Tubing Used:	Teflon ☒ Polyethylene ☐ N/A ☐		
Volume Measurements	(gal)	(ml)	Tubing/Well Size
Tubing Volume per foot	0.003	11.36	1/4" ID tubing
Well Volume per foot	0.041	155.18	1" diam. well
	0.163	616.95	2" diam. well
	0.653	2,471.60	4" diam. well
Water Quality Meter (type/Serial Number):		<u>HORIBA U-52 04106MVB</u>	
Sampling Method:		Baller ☐ Peristaltic ☐ Bladder ☒ Other ☐	
Did well go dry?		Yes ☒ No ☐	
Final Depth to Water (prior to turning off pump):		<u>18'</u>	
Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:														
Time	<u>1225</u>	<u>1227</u>	<u>1229</u>	<u>1231</u>	<u>1233</u>	<u>1235</u>	<u>1240</u>	<u>1245</u>	<u>1250</u>	<u>1255</u>	<u>1300</u>	<u>1305</u>		
Rate (ml/min)	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	<u>116</u>	<u>110</u>	<u>116</u>	<u>110</u>	<u>110</u>		
Depth to Water (ft. TOC)	<u>12.17</u>	<u>12.44</u>	<u>12.74</u>	<u>13.14</u>	<u>13.45</u>	<u>13.71</u>	<u>14.69</u>	<u>15.55</u>	<u>15.99</u>	<u>16.49</u>	<u>17.01</u>	<u>17.42</u>		
Temperature (°C)	<u>10.72</u>	<u>10.83</u>	<u>10.89</u>	<u>10.96</u>	<u>11.04</u>	<u>11.11</u>	<u>11.33</u>	<u>11.39</u>	<u>11.15</u>	<u>11.60</u>	<u>10.98</u>	<u>10.85</u>		
pH	<u>9.62</u>	<u>9.70</u>	<u>9.72</u>	<u>9.74</u>	<u>9.71</u>	<u>9.68</u>	<u>9.54</u>	<u>9.52</u>	<u>9.57</u>	<u>9.77</u>	<u>9.91</u>	<u>9.97</u>		
Conductivity (mS/cm)	<u>0.550</u>	<u>0.549</u>	<u>0.549</u>	<u>0.547</u>	<u>0.543</u>	<u>0.539</u>	<u>0.528</u>	<u>0.535</u>	<u>0.542</u>	<u>0.556</u>	<u>0.563</u>	<u>0.564</u>		
Dissolved Oxygen (mg/L)	<u>7.00</u>	<u>6.57</u>	<u>6.30</u>	<u>6.27</u>	<u>6.21</u>	<u>5.95</u>	<u>5.57</u>	<u>5.23</u>	<u>6.05</u>	<u>6.23</u>	<u>6.11</u>	<u>6.02</u>		
Turbidity (NTU)	<u>14.1</u>	<u>13.7</u>	<u>13.5</u>	<u>13.4</u>	<u>14.7</u>	<u>16.4</u>	<u>21.9</u>	<u>15.1</u>	<u>7.5</u>	<u>11.1</u>	<u>8.79</u>	<u>6.2</u>		
ORP (mV)	<u>16</u>	<u>10</u>	<u>4</u>	<u>3</u>	<u>5</u>	<u>8</u>	<u>7</u>	<u>-24</u>	<u>-27</u>	<u>-31</u>	<u>-31</u>	<u>-32</u>		

SAMPLE INFORMATION		Observations (water color, clarity, etc.):	
Sample List:	Sample ID: <u>N5</u>	Duplicate ID:	<u>* Lower pump intake to 18'</u>
Diss. Chromium & Vanadium ☒	Start Time: <u>N5</u>	Sample Time:	<u>* 1305 Dry to DTP. Call G/Lr instructed to wait on well for C.H. response</u>
Diss. Hexavalent Chromium ☒	End Time: <u>N5</u>	Total Bottles:	<u>~ 1315 Instructed to stop pumping</u>
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:	Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:	
Total Dissolved Solids ☐	Total Bottles: <u>N5</u>	Sample Time:	UNIT STABILITY
Hardness ☐	Sampled By: <u>N5</u>	Total Bottles:	pH DO Turb. Cond. ORP
VOCs (Dichlorobenzenes) ☐		Sampled By:	± 0.1 ± 10% ± 10% <10NTU ± 3% ± 10 mV

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Hayley B.</u>				Well ID: <u>MW-0314</u>	
Date: <u>10-29-20</u>				Original Install Depth: <u>18</u> feet	
Weather: <u>Rainy 50s</u>				Screen Length: <u>10</u> feet	
Time In: <u>1300</u>		Time Out: <u>1338</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>11.11</u>	<u>10/29</u>	<u>11.55</u>
Depth to Water (From TOC) With Pump in place: (feet)			<u>11.46</u>
Total Depth (from TOC): (feet)			<u>2036</u>
Length of Water Column: (feet)			<u>8-81</u>
Well Type: Flushmount ☒ Stick-Up ☐			
Well Locked: Yes ☒ No ☐			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION				EVAUATION INFORMATION			
Volume of Water in Well: (mL or gal)		<u>1.43</u>		Pump ID: <u>4068</u>	Pump Size: <u>1 1/2 x 3/4"</u>	Depth of Pump Intake: <u>15.96</u>	
Pumping Rate of Pump: (mL/min)		<u>150</u>		Evacuation Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Total Volume Removed: (mL or gal)		<u>0 @ 10</u>		Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐			
Volume Measurements (gal)	(mL)	Tubing/Well Size		Water Quality Meter (type/Serial Number): <u>Horizon U-52 PC2HMAV9</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>13-90</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg: <u>0</u>			

FIELD PARAMETER READINGS:												
Time	<u>1317</u>											
Rate (mL/min)	<u>150</u>											
Depth to Water (ft. TOC)	<u>12.86</u>											
Temperature (°C)	<u>10.52</u>											
pH	<u>9.82</u>											
Conductivity (mS/cm)	<u>0.661</u>											
Dissolved Oxygen (mg/L)	<u>6.52</u>											
Turbidity (NTU)	<u>8.6</u>											
ORP (mV)	<u>-344</u>											

SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:		Sample ID: <u>MW-0314-207018</u>		Duplicate ID:		<u>Rugged to H in well</u> <u>Grab, greenish yellow water</u> Free Cyanide Sulfide Test Strip: <u>Negative (Black) / Negative (No change)</u> <u>N/A</u>											
Diss. Chromium & Vanadium ☒		Start Time: <u>1318</u>		Sample Time:													
Diss. Hexavalent Chromium ☒		End Time: <u>1330</u>		Total Bottles:													
Total Cyanide ☒		MS/MSD: Yes ☐ No ☒		Sampled By:													
Free Cyanide ☐		Duplicate: Yes ☐ No ☒		MS/MSD ID:													
Total Dissolved Solids ☐		Total Bottles: <u>3</u>		Sample Time:													
Hardness ☐		Sampled By: <u>HB</u>		Total Bottles:		UNIT STABILITY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10% <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>		pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV													
VOCs (Dichlorobenzenes) ☐				Sampled By:													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley Brown</u>		Well ID: <u>MW-005</u>		
Date: <u>4-27-20</u>		Original Install Depth: <u>10.0</u>	feet	
Weather: <u>Cloudy 40s</u>		Screen Length: <u>5</u>	feet	
Time In: <u>0845</u> Time Out: <u>0830</u>		Well Diameter: <u>2</u>	Inches	

WELL INFORMATION				
Depth to Water (from TOC):	(feet)	<u>10.06</u> / <u>10.07</u>	Well Type:	Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>8.92</u> / <u>9.00</u>	Well Locked:	Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>10.29</u>	Measuring Point Marked:	Yes ☒ No ☐
Length of Water Column:	(feet)	<u>11.57</u>	Well Condition:	Good ☒ Poor ☐
		<u>2.57</u>	Well Condition Comments:	

WELL WATER INFORMATION			EVACUATION INFORMATION		
Volume of Water in Well:	(mL or gal)	<u>3042 gal</u>	Pump ID: <u>4052 4068</u>	Pump Size: <u>1/4-3/8"</u>	Depth of Pump Intake: <u>10.29</u>
Pumping Rate of Pump:	(mL/min)	<u>100</u>	Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	
Total Volume Removed:	(mL or gal)	<u>0.48 gal</u>	Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐	
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Haniba 0-52</u>	<u>PC74MA04</u>
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒ No ☐
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump):	<u>DRY</u>
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:	

FIELD PARAMETER READINGS:									
Time	<u>0907</u>	<u>0909</u>	<u>0911</u>	<u>0913</u>	<u>0915</u>	<u>0917</u>	<u>0922</u>	<u>0927</u>	
Rate (mL/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	
Depth to Water (ft. TOC)	<u>10.07</u>	<u>10.00</u>	<u>10.14</u>	<u>10.35</u>	<u>10.56</u>	<u>10.82</u>	<u>11.11</u>		
Temperature (°C)	<u>14.64</u>	<u>14.40</u>	<u>14.34</u>	<u>14.22</u>	<u>14.09</u>	<u>14.10</u>	<u>14.09</u>		
pH	<u>7.43</u>	<u>7.62</u>	<u>7.64</u>	<u>7.67</u>	<u>7.68</u>	<u>7.69</u>	<u>7.72</u>	<u>7.72</u>	
Conductivity (mS/cm)	<u>1.08</u>	<u>1.10</u>	<u>1.10</u>	<u>1.09</u>	<u>1.09</u>	<u>1.09</u>	<u>1.09</u>	<u>1.09</u>	
Dissolved Oxygen (mg/L)	<u>3.91</u>	<u>3.32</u>	<u>3.25</u>	<u>4.00</u>	<u>3.92</u>	<u>3.80</u>	<u>3.25</u>	<u>3.25</u>	
Turbidity (NTU)	<u>20.5</u>	<u>21.5</u>	<u>21.4</u>	<u>18.0</u>	<u>18.20</u>	<u>17.3</u>	<u>17.0</u>	<u>17.0</u>	
ORP (mV)	<u>302</u>	<u>324</u>	<u>331</u>	<u>345</u>	<u>345</u>	<u>347</u>	<u>240</u>	<u>240</u>	

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>NS</u>	Duplicate ID:		<u>Deploy pump to 11.47 @ 0911</u> <u>Well dry @ 0925</u>				
Diss. Chromium <u>300-022</u> ☒	Start Time: <u>NS</u>	Sample Time:						
Diss. Hexavalent Chromium ☒	End Time: <u>NS</u>	Total Bottles:						
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:						
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:		Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No Change)</u> <u>UT</u>				
Total Dissolved Solids ☐	Total Bottles:	Sample Time:		UNIT STABILITY				
Hardness ☐	Sampled By: <u>NS</u>	Total Bottles:		pH:	DO:	Turb.	Cond.	ORP
VOCs (Dichlorobenzenes) ☐		Sampled By:		± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>		Well ID: <u>MW-0825</u>	
Date: <u>10/28/20</u>		Original Install Depth: <u>10</u> feet	
Weather: <u>40° overcast</u>		Screen Length: <u>5</u> feet	
Time In: <u>1535</u> Time Out: <u>1557</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>10/26</u> <u>8.92</u>	<u>10/28</u> <u>8.96</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (From TOC) With Pump in place: (feet)		<u>8.96</u>	Well Locked: Yes ☐ No ☒
Total Depth (from TOC): (feet)		<u>11.57</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column: (feet)		<u>2.61</u>	Well Condition: Good ☒ Poor ☐
			Well Condition Comments:

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	<u>0.42</u>			Pump ID: <u>4052</u>	Pump Size: <u>Peri</u>	Depth of Pump Intake: <u>10.26</u>	
Pumping Rate of Pump: (mL/min)	<u>150</u>			Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other ☐			
Total Volume Removed: (mL or gal)	<u>~ 1500 ml</u>			Tubing Used: Teflon ☐ Polyethylene ☐ N/A ☐			
Volume Measurements (gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-52 WY106UXB</u>				
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☐			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>10.11</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:											
Time	<u>1542</u>										
Rate (mL/min)	<u>150/cup</u>										
Depth to Water (ft. TOC)	<u>9.54</u>										
Temperature (°C)	<u>12.94</u>										
pH	<u>7.78</u>										
Conductivity (mS/cm)	<u>0.935</u>										
Dissolved Oxygen (mg/L)	<u>4.52</u>										
Turbidity (NTU)	<u>2.7</u>										
ORP (mV)	<u>-39</u>										

SAMPLE INFORMATION				Observations (water color, clarity, etc.):	
Sample List:	Sample ID: <u>MW-0825-2020-1028</u>				
Diss. Chromium & Vanadium ☒	Start Time: <u>1549</u>				
Diss. Hexavalent Chromium ☒	End Time: <u>1553</u>				
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒				
Free Cyanide ☐	Duplicate: Yes ☐ No ☒				
Total Dissolved Solids ☐	Total Bottles: <u>3</u>				
Hardness ☐	Sampled By: <u>CM</u>				
VOCs (Dichlorobenzenes) ☐					

Sample Time: <u>1549</u>		Total Bottles: <u>3</u>		Sampled By: <u>CM</u>	
MS/MSD ID: <u>2020-1028</u>		Free Cyanide Sulfide Test Strip: <u>Positive (no change)</u>		UNIT STABILITY	
Sample Time: <u>1549</u>		Total Bottles: <u>3</u>		Sampled By: <u>CM</u>	
pH	DO	Turb.	Cond	ORP	
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV	

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B.</u>				Well ID: <u>MW-0826</u>	
Date: <u>10-27-20</u>				Original Install Depth: <u>14.0</u> feet	
Weather: <u>Cloudy 40s</u>				Screen Length: <u>5</u> feet	
Time In: <u>0950</u> Time Out: <u>1045</u>				Well Diameter: <u>2</u> inches	
WELL INFORMATION					
Depth to Water (from TOC):	(feet)	<u>10/26 13.41</u> <u>10/27 13.73</u>	Well Type:	Flushmount ☒	Stick-Up ☐
Depth to Water (From TOC) With Pump in place:	(feet)	<u>13.75</u>	Well Locked:	Yes ☒	No ☐
Total Depth (from TOC):	(feet)	<u>17.91</u>	Measuring Point Marked:	Yes ☒	No ☐
Length of Water Column:	(feet)	<u>4.18</u>	Well Condition:	Good ☒	Poor ☐
			Well Condition Comments:		
WELL WATER INFORMATION			EVACUATION INFORMATION		
Volume of Water in Well:	(ml or gal)	<u>0.689</u>	Pump ID: <u>4068</u>	Pump Size: <u>1/2 x 3/8"</u>	Depth of Pump Intake: <u>15.82</u>
Pumping Rate of Pump:	(mL/min)	<u>160</u>	Evacuation Method:	Bailer ☐	Peristaltic ☒
Total Volume Removed:	(mL or gal)	<u>0.68</u>	Tubing Used:	Teflon ☐	Polyethylene ☒
Volume Measurements	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PLZH MAU9</u>	
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒ No ☐
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>DRY</u>	
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:	
FIELD PARAMETER READINGS:					
Time	<u>1005</u>	<u>1007</u>	<u>1009</u>	<u>1011</u>	<u>1013</u>
Rate (ml/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
Depth to Water (ft. TOC)	<u>14.75</u>	<u>15.08</u>	<u>15.39</u>	<u>15.71</u>	<u>16.20</u>
Temperature (°C)	<u>13.34</u>	<u>13.24</u>	<u>13.12</u>	<u>13.00</u>	<u>12.91</u>
pH	<u>8.36</u>	<u>8.53</u>	<u>8.59</u>	<u>8.61</u>	<u>8.52</u>
Conductivity (mS/cm)	<u>1.84</u>	<u>1.82</u>	<u>1.73</u>	<u>1.62</u>	<u>1.44</u>
Dissolved Oxygen (mg/L)	<u>2.83</u>	<u>1.31</u>	<u>1.16</u>	<u>1.37</u>	<u>1.45</u>
Turbidity (NTU)	<u>140</u>	<u>137</u>	<u>106</u>	<u>91.1</u>	<u>77.0</u>
ORP (mV)	<u>-24</u>	<u>-51</u>	<u>-56</u>	<u>-55</u>	<u>-52</u>
					<u>-45</u>
					<u>-31</u>
SAMPLE INFORMATION					
Sample List:		Sample ID:		Duplicate ID:	
Diss. Chromium & Vanadium ☒		<u>NS</u>		<u>NS</u>	
Diss. Hexavalent Chromium ☒		Start Time:		Sample Time:	
Total Cyanide ☒		End Time:		Total Bottles:	
Free Cyanide ☐		MS/MSD: Yes ☐ No ☒		Sampled By:	
Total Dissolved Solids ☐		Duplicate: Yes ☐ No ☒		MS/MSD ID:	
Hardness ☐		Total Bottles:		Sample Time:	
VOCs (Dichlorobenzenes) ☐		Sampled By:		Total Bottles:	
		<u>NS</u>		Sampled By:	
Observations (water color, clarity, etc.):					
<u>Trolls Removed @ 0954 Redeployed @ 1034</u>					
<u>Deploy Pump to 17.85 @ 1014</u>					
<u>DRY @ 1024</u>					
Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change) <u>NA</u>					
UNIT STABILITY					
pH	DO	Turb.	Cond	ORP	
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV	

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Henry B.</u>		Well ID: <u>MW-024</u>	
Date: <u>10-29-20</u>		Original Install Depth: <u>14</u> feet	
Weather: <u>Cloudy 50s</u>		Screen Length: <u>5</u> feet	
Time In: <u>1026</u> Time Out: <u>1220</u>		Well Diameter: <u>2</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>10/26</u> <u>13.41</u>	<u>10/29</u> <u>16.80</u>
Depth to Water (from TOC) With Pump in place:	(feet)		<u>16.79</u>
Total Depth (from TOC):	(feet)		<u>17.91</u>
Length of Water Column:	(feet)	<u>1.11</u>	
Well Type:		Flushmount ☒	Stick-Up ☐
Well Locked:		Yes ☒	No ☐
Measuring Point Marked:		Yes ☒	No ☐
Well Condition:		Good ☒	Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>0-18g</u>		Pump ID:	<u>4068</u>	Pump Size:	<u>1/2" 3/8"</u>
Pumping Rate of Pump:	(mL/min)	<u>100</u>		Evacuation Method:	Bailer ☐	Peristaltic ☒	Bladder ☐
Total Volume Removed:	(mL or gal)	<u>0-18g</u>		Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Hor. In 452</u> <u>PC2444A</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐	Peristaltic ☒	Bladder ☐
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☒	No ☐	
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>DRY</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:											
Time	<u>1117</u>	<u>1159</u>									
Rate (ml/min)	<u>100</u>	<u>100</u>									
Depth to Water (ft. TOC)	<u>17.40</u>	<u>DRY</u>									
Temperature (°C)	<u>11.22</u>	<u>10.48</u>									
pH	<u>8.86</u>	<u>9.12</u>									
Conductivity (mS/cm)	<u>1.74</u>	<u>1.58</u>									
Dissolved Oxygen (mg/L)	<u>13.8</u>	<u>14.6</u>									
Turbidity (NTU)	<u>42.0</u>	<u>35.4</u>									
ORP (mV)	<u>-268</u>	<u>-84</u>									

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:		Sample ID: <u>MW0326-20201029</u>		<u>GRAB</u> Free Cyanide Sulfide Test Strip: <u>Positive (black) / Negative (no change)</u> <u>N/A</u>			
Diss. Chromium ☒ Vanadium ☒		Duplicate ID: _____					
Diss. Hexavalent Chromium ☒		Sample Time: _____					
Total Cyanide ☒		Total Bottles: _____					
Free Cyanide ☐		Sampled By: _____					
Total Dissolved Solids ☐		MS/MSD ID: _____					
Hardness ☐		Sample Time: _____		UNIT STABILITY pH DO Turb. Cond. ORP ± 0.1 ± 10% ± 10%, <10NTU ± 3% ± 10 mV			
VOCs (Dichlorobenzenes) ☐		Total Bottles: _____					
Sampled By: <u>HB</u>		Total Bottles: _____					
Selenium ☐		Sampled By: _____					
Hydrox Bottle only SEM ☐							

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Garnett Crowe</u>				Well ID: <u>MW-08D6</u>	
Date: <u>10/20/2020</u>				Original Install Depth: <u>14.0</u> feet	
Weather: <u>Snowy 30S</u>				Screen Length: <u>5</u> feet	
Time In: <u>1030</u> Time Out: <u>1120</u>				Well Diameter: <u>2</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>10/20</u> <u>13.41</u>	<u>10/30</u> <u>17.43</u>	Well Type: Flushmount ☒ Stick-Up ☐
Depth to Water (from TOC) With Pump in place: (feet)		<u>17.42</u>	Well Locked: Yes ☒ No ☐
Total Depth (from TOC): (feet)		<u>17.91</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column: (feet)		<u>0.48</u>	Well Condition: Good ☒ Poor ☐
			Well Condition Comments:

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	<u>0.08</u>			Pump ID: <u>beepump 4052</u>	Pump Size: <u>1/4 x 3/8</u>	Depth of Pump Intake: <u>17.67</u>	
Pumping Rate of Pump: (mL/min)	<u>100 mL/min</u>			Evacuation Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Total Volume Removed: (mL or gal)	<u>0.1 gallons</u>			Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐			

Volume Measurements				Water Quality Meter (type/Serial Number): <u>Hazibul U-52</u>	
(gal)	(mL)	Tubing/Well Size		Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	Did well go dry? Yes ☒ No ☐
Tubing Volume per foot	0.003	11.36	1/4" ID tubing		
Well Volume per foot	0.041	155.18	1" diam. well	Final Depth to Water (prior to turning off pump): <u>17.91</u>	
	0.163	616.95	2" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:	
	0.653	2,471.60	4" diam. well		

FIELD PARAMETER READINGS:											
Time											
Rate (mL/min)											
Depth to Water (ft. TOC)											
Temperature (°C)											
pH											
Conductivity (mS/cm)											
Dissolved Oxygen (mg/L)											
Turbidity (NTU)											
ORP (mV)											

SAMPLE INFORMATION				Observations (water color, clarity, etc.):																
Sample List: Diss. Chromium & Vanadium ☐ Diss. Hexavalent Chromium ☐ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐		Sample ID: <u>MW-08D6-20201030</u>	Duplicate ID:	<u>GRTB Sample taken prior to Parameter Readings; not enough water for parameter Reading after the sample</u> Free Cyanide Sulfide Test Strip: <u>Positive (brown) / Negative (no change)</u> <u>NA</u>																
		Start Time: <u>1100</u>	Sample Time:																	
		End Time: <u>1110</u>	Total Bottles:																	
		MS/MSD: Yes ☐ No ☒	Sampled By:																	
		Duplicate: Yes ☐ No ☒	MS/MSD ID:																	
		Total Bottles: <u>1</u>	Sample Time:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5" style="text-align: center;">UNIT STABILITY</th> </tr> <tr> <th>pH</th><th>DO</th><th>Turb.</th><th>Cond</th><th>ORP</th> </tr> <tr> <td>± 0.1</td><td>± 10%</td><td>± 10% <10 NTU</td><td>± 3%</td><td>± 10 mV</td> </tr> </table>		UNIT STABILITY					pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV
UNIT STABILITY																				
pH	DO	Turb.	Cond	ORP																
± 0.1	± 10%	± 10% <10 NTU	± 3%	± 10 mV																
		Sampled By: <u>GC</u>	Total Bottles:																	
		Sampled By:	Sampled By:																	

(Just Sampled PFAS)

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley Brown</u>		Well ID: <u>MW-0830</u>												
Date: <u>10/28/20</u>		Original Install Depth: <u>1825</u>	feet											
Weather: <u>Rainy 40s</u>		Screen Length: <u>12</u>	feet											
Time In: <u>0920</u> Time Out: <u>1145</u>		Well Diameter: <u>2"</u>	inches											
WELL INFORMATION														
Depth to Water (from TOC): (feet)	<u>10.41</u>	<u>10128</u>	Well Type: Flushmount ☐ Stick-Up ☒											
Depth to Water (From TOC) With Pump in place: (feet)	<u>10.44</u>		Well Locked: Yes ☒ No ☐											
Total Depth (from TOC): (feet)	<u>18.55</u>		Measuring Point Marked: Yes ☒ No ☐											
Length of Water Column: (feet)	<u>8.11</u>		Well Condition: Good ☒ Poor ☐											
Well Condition Comments:														
WELL WATER INFORMATION														
Volume of Water in Well: (mL or gal)	<u>1.32</u>		Pump ID: <u>4052</u> Pump Size: <u>1/4 x 3/8"</u> Depth of Pump Intake: <u>14.50</u>											
Pumping Rate of Pump: (mL/min)	<u>100</u>		Evacuation Method: Baller ☐ Peristaltic ☒ Bladder ☐ Other ☐											
Total Volume Removed: (mL or gal)	<u>1.30</u>		Tubing Used: Teflon ☐ Polyethylene ☒ High Density PE ☐ Other ☐											
Volume Measurements (gal) (mL)			Water Quality Meter (type/Serial Number): <u>Horiba U-52 PC1HMA14</u>											
Tubing Volume per foot	0.003	11.36	Sampling Method: Baller ☐ Peristaltic ☒ Bladder ☐ Other ☐											
Well Volume per foot	0.041	155.18	Did well go dry? Yes ☒ No ☐											
	0.163	616.95	Final Depth to Water (prior to turning off pump): <u>18.46</u>											
	0.653	2,471.60	Barometric Pressure (At time of sampling) in mm/Hg:											
FIELD PARAMETER READINGS:														
Time	<u>0942</u>	<u>0944</u>	<u>0946</u>	<u>0948</u>	<u>0950</u>	<u>0952</u>	<u>0957</u>	<u>1002</u>	<u>1007</u>	<u>1012</u>	<u>1017</u>	<u>1022</u>	<u>1027</u>	<u>1032</u>
Rate (mL/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
Depth to Water (ft. TOC)	<u>11.56</u>	<u>11.68</u>	<u>11.82</u>	<u>11.98</u>	<u>12.15</u>	<u>12.74</u>	<u>13.46</u>	<u>13.84</u>	<u>14.34</u>	<u>14.73</u>	<u>15.25</u>	<u>15.61</u>	<u>15.96</u>	<u>16.30</u>
Temperature (°C)	<u>9.92</u>	<u>9.94</u>	<u>9.94</u>	<u>9.95</u>	<u>9.98</u>	<u>10.02</u>	<u>9.93</u>	<u>9.90</u>	<u>9.83</u>	<u>9.96</u>	<u>9.92</u>	<u>9.87</u>	<u>9.70</u>	<u>9.70</u>
pH	<u>7.85</u>	<u>10.13</u>	<u>10.04</u>	<u>10.07</u>	<u>11.91</u>	<u>12.03</u>	<u>12.80</u>	<u>12.42</u>	<u>11.84</u>	<u>11.33</u>	<u>10.60</u>	<u>10.50</u>	<u>10.47</u>	<u>10.42</u>
Conductivity (mS/cm)	<u>1.14</u>	<u>1.13</u>	<u>1.13</u>	<u>1.13</u>	<u>1.13</u>	<u>1.15</u>	<u>1.13</u>	<u>1.13</u>	<u>1.12</u>	<u>1.12</u>	<u>1.12</u>	<u>1.12</u>	<u>1.12</u>	<u>1.11</u>
Dissolved Oxygen (mg/L)	<u>0.0</u>	<u>0.80</u>	<u>0.89</u>	<u>1.04</u>	<u>1.20</u>	<u>1.33</u>	<u>1.62</u>	<u>1.90</u>	<u>1.94</u>	<u>1.94</u>	<u>2.18</u>	<u>2.30</u>	<u>2.35</u>	<u>2.37</u>
Turbidity (NTU)	<u>1.5</u>	<u>1.9</u>	<u>2.1</u>	<u>2.0</u>	<u>2.5</u>	<u>2.2</u>	<u>2.2</u>	<u>2.3</u>	<u>3.2</u>	<u>2.2</u>	<u>5.4</u>	<u>7.4</u>	<u>7.4</u>	<u>7.4</u>
ORP (mV)	<u>96</u>	<u>66</u>	<u>46</u>	<u>26</u>	<u>0</u>	<u>-15</u>	<u>-32</u>	<u>-34</u>	<u>-23</u>	<u>-21</u>	<u>-22</u>	<u>-21</u>	<u>-17</u>	<u>-15</u>
SAMPLE INFORMATION					Observations (water color, clarity, etc.):									
Sample List: <u>PFAS</u>	Sample ID: <u>MW-0830-20201028</u>	Duplicate ID: <u>DUP-0120201028</u>	① <u>1008</u> put pump intake @ approx 6" off Bottom											
Diss. Chromium & Chromium <u>NA</u>	Start Time: <u>1035</u>	Sample Time: <u>1035</u>	-After 718 PFAS Bottles DTW <u>18.33</u> dropped to <u>18.45</u> for final Bottle Sampled, slight brown color in bottle											
Diss. Hexavalent Chromium ☒	End Time: <u>1105</u>	Total Bottles: <u>8</u>	Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>											
Total Cyanide ☒	MS/MSD: Yes ☒ No ☐	Sampled By: <u>HB</u>	UNIT STABILITY											
Free Cyanide ☐	Duplicate: Yes ☒ No ☐	MS/MSD ID: <u>MW-0830-20201028</u>												
Total Dissolved Solids ☐	Total Bottles: <u>8</u>	Sample Time: <u>1035</u>	pH	DO	Turb.	Cond	ORP							
Hardness ☐	Sampled By: <u>HB</u>	Total Bottles: <u>8</u>	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV							
VOCs (Dichlorobenzenes) ☐		Sampled By: <u>HB</u>												

+PFAS

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B?</u>				Well ID: <u>MW-0830</u>	
Date: <u>10-29-26</u>				Original Install Depth: <u>18.25</u> feet	
Weather: <u>Cloudy 40s</u>				Screen Length: <u>12</u> feet	
Time In: <u>0840</u> Time Out: <u>1000</u>				Well Diameter: <u>2"</u> Inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>10.41</u> <u>10.60</u>	Well Type:	Flushmount ☐ Stick-Up ☒
Depth to Water (From TOC) With Pump in place: (feet)	<u>10.58</u>	Well Locked:	Yes ☒ No ☐
Total Depth (from TOC): (feet)	<u>18.55</u>	Measuring Point Marked:	Yes ☒ No ☐
Length of Water Column: (feet)	<u>7.95</u>	Well Condition:	Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	<u>1.30</u>			Pump ID: <u>4068</u>	Pump Size: <u>1/2" x 3/8"</u>	Depth of Pump Intake: <u>14.058</u>	
Pumping Rate of Pump: (mL/min)	<u>100</u>			Evacuation Method:	Bailer ☐ Peristaltic ☒	Bladder ☐	Other ☐
Total Volume Removed: (mL or gal)	<u>0.809</u>			Tubing Used:	Teflon ☐ Polyethylene ☒ <u>High Density HDPE</u>	N/A ☐	
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52</u> <u>PC2HMAV4</u>			
Tubing Volume per foot:	0.003	11.96	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☒	Bladder ☐	Other ☐
Well Volume per foot:	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐ No ☒		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>16.81</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:												
Time	<u>0854</u>	<u>0901</u>	<u>0903</u>	<u>0905</u>	<u>0907</u>	<u>0909</u>	<u>0914</u>	<u>0919</u>	<u>0924</u>	<u>0929</u>		
Rate (mL/min)	<u>108</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>		
Depth to Water (ft. TOC)	<u>11.54</u>	<u>11.80</u>	<u>12.21</u>	<u>12.46</u>	<u>12.75</u>	<u>13.00</u>	<u>13.21</u>	<u>14.20</u>	<u>14.75</u>	<u>15.30</u>		
Temperature (°C)	<u>11.81</u>	<u>11.73</u>	<u>11.72</u>	<u>11.70</u>	<u>11.67</u>	<u>11.65</u>	<u>11.58</u>	<u>11.51</u>	<u>11.47</u>	<u>11.34</u>		
pH	<u>10.32</u>	<u>10.78</u>	<u>10.70</u>	<u>10.66</u>	<u>10.64</u>	<u>10.63</u>	<u>10.63</u>	<u>10.66</u>	<u>10.68</u>	<u>10.73</u>		
Conductivity (mS/cm)	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>	<u>1.08</u>	<u>1.07</u>	<u>1.07</u>	<u>1.07</u>	<u>1.07</u>	<u>1.09</u>		
Dissolved Oxygen (mg/L)	<u>3.66</u>	<u>2.17</u>	<u>1.83</u>	<u>1.83</u>	<u>1.88</u>	<u>1.85</u>	<u>1.70</u>	<u>2.03</u>	<u>2.00</u>	<u>2.12</u>		
Turbidity (NTU)	<u>8.1</u>	<u>6.9</u>	<u>9.4</u>	<u>7.0</u>	<u>7.5</u>	<u>7.4</u>	<u>7.6</u>	<u>8.3</u>	<u>8.6</u>	<u>8.5</u>		
ORP (mV)	<u>-111</u>	<u>-173</u>	<u>-180</u>	<u>-181</u>	<u>-178</u>	<u>-175</u>	<u>-154</u>	<u>-140</u>	<u>-137</u>	<u>-142</u>		

SAMPLE INFORMATION				Observations (water color, clarity, etc.):			
Sample List:	Sample ID: <u>MW-0830-2020</u>	Duplicate ID: <u>0838</u>					
Diss. Chromium & Vanadium ☒	Start Time: <u>0930</u>	Sample Time: <u>0930</u>					
Diss. Hexavalent Chromium ☒	End Time: <u>0941</u>	Total Bottles: <u>3</u>					
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By: <u>HB</u>					
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID: <u>0838</u>					
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time: <u>0930</u>	Free Cyanide Sulfide Test Strip: <u>Positive (break) / (Negative/no change)</u> <u>NA</u>				
Hardness ☐	Sampled By: <u>HB</u>	Total Bottles: <u>3</u>	UNIT STABILITY				
VOCs (Dichlorobenzenes) ☐		Sampled By: <u>HB</u>	pH	DO	Turb.	Cond	ORP
			± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

(Just Sampled PFAS GC)

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS</u>		Well ID: <u>MW-0831</u>												
Date: <u>10/28/20</u>		Original Install Depth: <u>13.67</u>	feet											
Weather: <u>RAIN - 45°</u>		Screen Length: <u>8</u>	feet											
Time In: <u>9:15</u>		Well Diameter: <u>8</u>	inches											
Time Out: <u>10:45</u>														
WELL INFORMATION														
Depth to Water (from TOC):	(feet)	<u>10.09</u>	Well Type:	Flushmount ☐ Stick-Up ☒										
Depth to Water (From TOC) With Pump in place:	(feet)	<u>9.94</u>	Well Locked:	Yes ☒ No ☐										
Total Depth (from TOC):	(feet)	<u>13.96</u>	Measuring Point Marked:	Yes ☒ No ☐										
Length of Water Column:	(feet)	<u>4.02</u>	Well Condition:	Good ☒ Poor ☐										
Well Condition Comments:														
WELL WATER INFORMATION														
Volume of Water in Well:	(mL or gal)	<u>0.65 gal</u>	Pump ID: <u>4068</u>	Pump Size: <u>11.95</u>										
Pumping Rate of Pump:	(mL/min)	<u>150</u>	Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐										
Total Volume Removed:	(mL or gal)	<u>2 gal</u>	Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐										
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>45KT5725 / HORIBA</u>										
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:										
Well Volume per foot	0.041	155.18	1" diam. well	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐										
	0.163	616.95	2" diam. well	Did well go dry? Yes ☐ No ☐										
	0.653	2,471.60	4" diam. well	Final Depth to Water (prior to turning off pump): <u>10.25</u>										
Barometric Pressure (At time of sampling) in mm/Hg:														
FIELD PARAMETER READINGS:														
Time	<u>9:40</u>	<u>9:42</u>	<u>9:44</u>	<u>9:46</u>	<u>9:48</u>	<u>9:53</u>	<u>9:58</u>	<u>10:03</u>	<u>10:08</u>	<u>10:13</u>	<u>10:18</u>	<u>10:23</u>		
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>		
Depth to Water (ft. TOC)	<u>10.22</u>	<u>10.24</u>	<u>10.25</u>	<u>10.25</u>	<u>10.27</u>	<u>10.30</u>	<u>10.32</u>	<u>10.32</u>	<u>10.33</u>	<u>10.33</u>				
Temperature (°C)	<u>10.48</u>	<u>10.83</u>	<u>10.97</u>	<u>11.07</u>	<u>11.17</u>	<u>11.35</u>	<u>11.53</u>	<u>11.59</u>	<u>11.61</u>	<u>11.59</u>				
pH	<u>8.45</u>	<u>9.55</u>	<u>9.81</u>	<u>9.91</u>	<u>10.00</u>	<u>10.12</u>	<u>10.17</u>	<u>10.20</u>	<u>10.22</u>	<u>10.22</u>				
Conductivity (mS/cm)	<u>1.58</u>	<u>1.56</u>	<u>1.56</u>	<u>1.56</u>	<u>1.57</u>	<u>1.58</u>	<u>1.58</u>	<u>1.56</u>	<u>1.55</u>	<u>1.52</u>				
Dissolved Oxygen (mg/L)	<u>3.16</u>	<u>1.62</u>	<u>1.22</u>	<u>1.04</u>	<u>0.97</u>	<u>0.81</u>	<u>0.72</u>	<u>0.64</u>	<u>0.58</u>	<u>0.53</u>				
Turbidity (NTU)	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.2</u>	<u>1.5</u>	<u>1.1</u>	<u>1.0</u>	<u>1.0</u>				
ORP (mV)	<u>-79</u>	<u>-97</u>	<u>-107</u>	<u>-116</u>	<u>-121</u>	<u>-132</u>	<u>-141</u>	<u>-148</u>	<u>-153</u>	<u>158</u>				
SAMPLE INFORMATION					Observations (water color, clarity, etc.):									
Sample List: <u>PFAS CC</u>					Duplicate ID: <u>MW-0831-20201028</u>									
Diss. Chromium & Vanadium ☒					Sample Time: <u>10:15</u>									
Diss. Hexavalent Chromium ☒					Total Bottles: <u>3</u>									
Total Cyanide ☒					Sampled By: <u>JS</u>									
Free Cyanide ☒					MS/MSD ID: <u>3</u>									
Total Dissolved Solids ☐					Free Cyanide Sulfide Test Strip: <u>Positive (toxicity) / Negative (no change)</u> <u>NK</u>									
Hardness ☐					UNIT STABILITY									
VOCs (Dichlorobenzenes) ☐					pH DO Turb. Cond. ORP									
					± 0.1 ± 10% ± 10% <10 NTU ± 3% ± 10 mV									

9.94
2.01

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS</u>				Well ID: <u>MW-0832</u>			
Date: <u>10/28/2020</u>				Original Install Depth: <u>13.05</u>		feet	
Weather: <u>OVERCAST/RAIN 45°F</u>				Screen Length: <u>5</u>		feet	
Time In: <u>1150</u> Time Out: <u>1315</u>				Well Diameter: <u>2"</u>		inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>9.17</u> <u>9.04</u>	Well Type: Flushmount ☐ Stick-Up ☒
Depth to Water (From TOC) With Pump in place:	(feet)	<u>9.03</u>	Well Locked: Yes ☒ No ☐
Total Depth (from TOC):	(feet)	<u>13.31</u>	Measuring Point Marked: Yes ☒ No ☐
Length of Water Column:	(feet)	<u>4.27</u>	Well Condition: Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVIQUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>0.69 gal</u>	Pump ID: <u>4068</u>	Pump Size: <u>1/4 x 3/8"</u>	Depth of Pump Intake: <u>8 11.13</u>		
Pumping Rate of Pump:	(mL/min)	<u>150</u>	Evacuation Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐				
Total Volume Removed:	(mL or gal)	<u>2 gal</u>	Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐				
Volume Measurements:	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA 1 45KTS-72F</u>			
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Well Volume per foot:	0.041	155.18	2" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>9.86</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:												
Time	<u>1214</u>	<u>1216</u>	<u>1218</u>	<u>1220</u>	<u>1222</u>	<u>1227</u>	<u>1232</u>	<u>1237</u>	<u>1242</u>			
Rate (mL/min)	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>	<u>150</u>			
Depth to Water (ft. TOC)	<u>9.43</u>	<u>9.46</u>	<u>9.50</u>	<u>9.53</u>	<u>9.60</u>	<u>9.64</u>	<u>9.71</u>	<u>9.76</u>	<u>9.82</u>			
Temperature (°C)	<u>8.84</u>	<u>10.32</u>	<u>10.70</u>	<u>10.90</u>	<u>11.15</u>	<u>11.29</u>	<u>11.40</u>	<u>11.51</u>	<u>11.61</u>			
pH	<u>9.47</u>	<u>8.82</u>	<u>8.53</u>	<u>8.39</u>	<u>8.21</u>	<u>8.12</u>	<u>8.04</u>	<u>8.01</u>	<u>7.99</u>			
Conductivity (mS/cm)	<u>1.46</u>	<u>1.41</u>	<u>1.41</u>	<u>1.41</u>	<u>1.41</u>	<u>1.40</u>	<u>1.40</u>	<u>1.40</u>	<u>1.40</u>			
Dissolved Oxygen (mg/L)	<u>4.57</u>	<u>2.15</u>	<u>1.38</u>	<u>1.09</u>	<u>0.92</u>	<u>0.83</u>	<u>0.75</u>	<u>0.68</u>	<u>0.67</u>			
Turbidity (NTU)	<u>1.0</u>	<u>1.0</u>	<u>1.1</u>	<u>1.2</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	<u>0.8</u>	<u>0.8</u>			
ORP (mV)	<u>55</u>	<u>78</u>	<u>91</u>	<u>109</u>	<u>154</u>	<u>158</u>	<u>147</u>	<u>191</u>	<u>187</u>			

SAMPLE INFORMATION				Observations (water color, clarity, etc.):												
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOCs (Dichlorobenzenes) ☐	Sample ID: <u>MW-0832 20201028</u>		Duplicate ID:		Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change) <u>N4</u>											
	Start Time: <u>12:45</u>		Sample Time:													
	End Time: <u>1255</u>		Total Bottles:													
	MS/MSD: Yes ☐ No ☒		Sampled By:													
	Duplicate: Yes ☐ No ☒		MS/MSD ID:													
	Total Bottles:		Sample Time:													
Sampled By: <u>JS</u>		Total Bottles:		UNIT STABILITY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>			pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond				ORP									
± 0.1	± 10%	± 10%, <10NTU	± 3%	± 10 mV												
Sampled By:		Sampled By:														

2.13
11.17

406

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B</u>				Well ID: <u>NW-0833</u>										
Date: <u>10/28/20</u>				Original Install Depth: <u>15.21</u> feet										
Weather: <u>Rainy 40s</u>				Screen Length: <u>10</u> feet										
Time In: <u>1250</u> Time Out: <u>1500</u>				Well Diameter: <u>2</u> inches										
WELL INFORMATION														
Depth to Water (from TOC):	(feet)	<u>7.80</u>	<u>10/26</u>	<u>10/28</u>	Well Type: Flushmount ☐ Stick-Up ☒									
Depth to Water (From TOC) With Pump in place:	(feet)	<u>7.75</u>			Well Locked: Yes ☒ No ☐									
Total Depth (from TOC):	(feet)	<u>15.51</u>			Measuring Point Marked: Yes ☒ No ☐									
Length of Water Column:	(feet)	<u>7.76</u>			Well Condition: Good ☒ Poor ☐									
Well Condition Comments:														
WELL WATER INFORMATION														
Volume of Water in Well:	(mL or gal)	<u>1.26</u>	Pump ID: <u>4052</u> Pump Size: <u>1/2" pump</u> Depth of Pump Intake: <u>11.03</u>											
Pumping Rate of Pump:	(mL/min)	<u>100</u>	Evacuation Method: Baller ☐ Peristaltic ☒ Bladder ☐ Other ☐											
Total Volume Removed:	(mL or gal)	<u>2.00</u>	Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐											
Volume Measurements:	(gal)	(mL)	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PC24MAV4</u>											
Tubing Volume per foot:	0.003	11.36	Sampling Method: Baller ☐ Peristaltic ☒ Bladder ☐ Other ☐											
Well Volume per foot:	0.041	155.18	Did well go dry? Yes ☐ No ☒											
	0.163	616.95	Final Depth to Water (prior to turning off pump): <u>7.82</u>											
	0.653	2,471.60	Barometric Pressure (At time of sampling) in mm/Hg:											
FIELD PARAMETER READINGS:														
Time	1310	1312	1314	1316	1318	1320	1325	1330	1335	1340	1345	1350	1355	1400
Rate (mL/min)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Depth to Water (ft. TOC)	7.76	7.76	7.73	7.78	7.78	7.78	7.78	7.78	7.78	7.78	7.78	7.78	7.79	7.74
Temperature (°C)	12.61	12.61	12.37	12.24	12.42	12.92	13.02	13.05	13.00	12.74	12.68	12.64	12.64	12.67
pH	4.73	4.73	4.55	4.52	4.48	4.46	4.48	4.50	4.50	4.44	4.56	4.60	4.62	4.63
Conductivity (mS/cm)	0.691	0.683	0.684	0.676	0.678	0.700	0.704	0.706	0.709	0.693	0.662	0.638	0.631	0.622
Dissolved Oxygen (mg/L)	6.60	6.18	6.44	6.44	6.41	6.35	6.10	5.44	5.85	5.82	5.72	5.60	5.53	5.40
Turbidity (NTU)	36.4	46.5	41.4	40.4	36.7	34.0	20.3	24.5	21.5	19.3	15.3	11.2	9.0	7.5
ORP (mV)	-190	-22	34	45	55	61	62	55	32	43	27	11	5	22
SAMPLE INFORMATION						Observations (water color, clarity, etc.):								
Sample List:	Sample ID: <u>NW-0833</u> Duplicate ID: <u>5.210018</u>					Free Cyanide Sulfide Test Strip: <u>Positive (Black) / Negative (No change)</u> <u>NA</u>								
Diss. Chromium & Vanadium ☒	Start Time: <u>1427</u> Sample Time: <u>1439</u>													
Diss. Hexavalent Chromium ☒	End Time: <u>1439</u> Total Bottles: <u>3</u>													
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒ Duplicate: Yes ☐ No ☒													
Free Cyanide ☐	Total Bottles: <u>3</u> Sampled By: <u>HAB</u>													
Total Dissolved Solids ☐	Sample Time: <u>1439</u> Total Bottles: <u>3</u> Sampled By: <u>HAB</u>					UNIT STABILITY								
Hardness ☐						pH								
VOCs (Dichlorobenzenes) ☐						DO								
						Turb.								
						Cond								
						ORP								
						± 0.1								
						± 10%								
						± 10% < 10 NTU								
						± 3%								
						± 10 mV								

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Haley B</u>		Well ID: <u>MW-0833</u>	
Date: <u>10-28-20</u>		Original Install Depth: <u>15.21</u> feet	
Weather: <u>Rainy 40s</u>		Screen Length: <u>10</u> feet	
Time In: <u>1250</u> Time Out: <u>1500</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	<u>7.80</u>	<u>7.75</u>
Depth to Water (From TOC) With Pump in place:	(feet)		<u>7.75</u>
Total Depth (from TOC):	(feet)	<u>15.51</u>	
Length of Water Column:	(feet)	<u>7.76</u>	
		Well Type:	Flushmount ☐ Stick-Up ☒
		Well Locked:	Yes ☒ No ☐
		Measuring Point Marked:	Yes ☒ No ☐
		Well Condition:	Good ☒ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	<u>1.26</u>		Pump ID:	<u>4052</u>	Pump Size:	<u>1/4 x 3/8"</u>
Pumping Rate of Pump:	(mL/min)	<u>100</u>		Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	Depth of Pump Intake:	<u>11.63</u>
Total Volume Removed:	(mL or gal)	<u>2.00</u>		Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>Horiba U-52 PC2 HMAV9</u>			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐			
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry? Yes ☐ No ☒			
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>7.82</u>			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:									
Time	<u>1405</u>	<u>1410</u>	<u>1415</u>	<u>1420</u>	<u>1425</u>				
Rate (mL/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>				
Depth to Water (ft. TOC)	<u>7.80</u>	<u>7.80</u>	<u>7.80</u>	<u>7.81</u>	<u>7.81</u>				
Temperature (°C)	<u>12.62</u>	<u>12.85</u>	<u>12.88</u>	<u>12.76</u>	<u>12.82</u>				
pH	<u>7.64</u>	<u>7.65</u>	<u>7.65</u>	<u>7.67</u>	<u>7.69</u>				
Conductivity (mS/cm)	<u>0.617</u>	<u>0.615</u>	<u>0.611</u>	<u>0.607</u>	<u>0.605</u>				
Dissolved Oxygen (mg/L)	<u>5.32</u>	<u>5.14</u>	<u>5.09</u>	<u>5.01</u>	<u>5.05</u>				
Turbidity (NTU)	<u>6.3</u>	<u>4.4</u>	<u>4.1</u>	<u>3.5</u>	<u>3.3</u>				
ORP (mV)	<u>-24</u>	<u>-57</u>	<u>-71</u>	<u>-67</u>	<u>-67</u>				

SAMPLE INFORMATION				Observations (water color, clarity, etc.):				
Sample List:	Sample ID: <u>MW-0833-2820-78</u>	Duplicate ID:						
Diss. Chromium & Vanadium ☒	Start Time: <u>1427</u>	Sample Time:						
Diss. Hexavalent Chromium ☒	End Time: <u>1438</u>	Total Bottles:						
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:						
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:						
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:						
Hardness ☐	Sampled By: <u>HTO</u>	Total Bottles:		Free Cyanide Sulfide Test Strip: <u>Positive (check) / Negative (No change)</u> <u>NA</u>				
VOCs (Dichlorobenzenes) ☐		Sampled By:		UNIT STABILITY				
				pH	DO	Turb.	Cond	ORP
				± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS</u>		Well ID: <u>NW-0834</u>	
Date: <u>10/28/20</u>		Original Install Depth: <u>16.04</u> feet	
Weather: <u>overcast / misting - 45°F</u>		Screen Length: <u>10</u> feet	
Time In: <u>1415</u> Time Out: <u>1520</u>		Well Diameter: <u>2"</u> inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	<u>15.26</u>	<u>10/28</u>	<u>14.88</u>
Depth to Water (From TOC) With Pump in place: (feet)		<u>14.87</u>	
Total Depth (from TOC): (feet)		<u>16.35</u>	
Length of Water Column: (feet)		<u>1.47</u>	
Well Type: Flushmount ☐ Stick-Up ☒			
Well Locked: Yes ☒ No ☐			
Measuring Point Marked: Yes ☒ No ☐			
Well Condition: Good ☒ Poor ☐			
Well Condition Comments:			

WELL WATER INFORMATION		EVACUATION INFORMATION	
Volume of Water in Well: (ml or gal)	<u>0.23 gal</u>	Pump ID: <u>4068</u>	Pump Size: <u>1/2 x 3/8"</u> Depth of Pump Intake: <u>15.62</u>
Pumping Rate of Pump: (ml/min)	<u>100</u>	Evacuation Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	
Total Volume Removed: (ml or gal)	<u>1.5 gal</u>	Tubing Used: Teflon ☐ Polyethylene ☒ N/A ☐	
Volume Measurements (gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA 45KTS72F</u>
Tubing Volume per foot	0.003	11.36	1/4" ID tubing
Well Volume per foot	0.041	155.18	1" diam. well
	0.163	616.95	2" diam. well
	0.653	2,471.60	4" diam. well
		Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	
		Did well go dry? Yes ☐ No ☐	
		Final Depth to Water (prior to turning off pump): <u>15.85</u>	
		Barometric Pressure (At time of sampling) in mm/Hg:	

FIELD PARAMETER READINGS:									
Time	<u>1434</u>	<u>1436</u>	<u>1438</u>	<u>1440</u>	<u>1442</u>	<u>1447</u>	<u>1452</u>	<u>1457</u>	
Rate (ml/min)	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	
Depth to Water (ft. TOC)	<u>15.15</u>	<u>15.20</u>	<u>15.23</u>	<u>15.27</u>	<u>15.31</u>	<u>15.39</u>	<u>15.45</u>		
Temperature (°C)	<u>4.73</u>	<u>10.26</u>	<u>10.54</u>	<u>10.70</u>	<u>10.83</u>	<u>11.10</u>	<u>11.37</u>		
pH	<u>7.66</u>	<u>7.33</u>	<u>7.16</u>	<u>7.08</u>	<u>7.03</u>	<u>6.96</u>	<u>6.93</u>		
Conductivity (mS/cm)	<u>3.24</u>	<u>3.20</u>	<u>3.19</u>	<u>3.19</u>	<u>3.18</u>	<u>3.18</u>	<u>3.19</u>		
Dissolved Oxygen (mg/L)	<u>3.73</u>	<u>2.78</u>	<u>2.37</u>	<u>2.04</u>	<u>1.87</u>	<u>1.52</u>	<u>1.32</u>		
Turbidity (NTU)	<u>3.2</u>	<u>2.2</u>	<u>1.3</u>	<u>1.2</u>	<u>1.3</u>	<u>1.1</u>	<u>0.9</u>		
ORP (mV)	<u>49</u>	<u>43</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>46</u>	<u>44</u>		

SAMPLE INFORMATION		Observations (water color, clarity, etc.):												
Sample List:	Sample ID: <u>NW-0834.20201028</u>	Duplicate ID:	<u>Grab - well was going dry; all stable except DO</u> <u>NA</u>											
Diss. Chromium & Manganese ☒	Start Time: <u>1455</u>	Sample Time:												
Diss. Hexavalent Chromium ☒	End Time: <u>1505</u>	Total Bottles:												
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒	Sampled By:												
Free Cyanide ☐	Duplicate: Yes ☐ No ☒	MS/MSD ID:												
Total Dissolved Solids ☐	Total Bottles: <u>3</u>	Sample Time:												
Hardness ☐	Sampled By: <u>JS</u>	Total Bottles:	Free Cyanide Sulfide Test Strip: <u>Positive (Black) / negative (no change)</u>											
VOCs (Dichlorobenzenes) ☐		Sampled By:	UNIT STABILITY <table border="1"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>		pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
pH	DO	Turb.	Cond	ORP										
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV										

GROUNDWATER SAMPLING LOG
Ashland Glens Falls, NY
Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>				Well ID: <u>SUMPA</u>			
Date: <u>10/24/20</u>				Original Install Depth: <u>31.5</u>		feet	
Weather: <u>40° overcast</u>				Screen Length: <u>NA</u>		feet	
Time In: <u>1412</u>				Well Diameter: <u>NA</u>		inches	
Time Out: <u>1431</u>							
WELL INFORMATION							
Depth to Water (from TOC):	(feet)	<u>26.20</u>	<u>top of Sump Box</u>		Well Type:	Flushmount ☐	Stick-Up ☐ <u>N/A Sump</u>
Depth to Water (From TOC) With Pump in place:	(feet)	<u>—</u>			Well Locked:	Yes ☒	No ☐
Total Depth (from TOC):	(feet)	<u>—</u>			Measuring Point Marked:	Yes ☒	No ☐
Length of Water Column:	(feet)	<u>—</u>			Well Condition:	Good ☒	Poor ☐
Well Condition Comments:							
WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(ml. or gal)	<u>—</u>			Pump ID: <u>NA</u>	Pump Size: <u>NA</u>	Depth of Pump Intake: <u>NA</u>
Pumping Rate of Pump:	(ml./min)	<u>—</u>			Evacuation Method:	Ballier ☒	Peristaltic ☐
Total Volume Removed:	(ml. or gal)	<u>—</u>			Tubing Used:	Teflon ☐	Polyethylene ☐
						N/A ☐	
Volume Measurements:	(gal)	(ml)	Tubing/Well Size		Water Quality Meter (Type/Serial Number):	<u>HORIBA U-50 WV106AxB</u>	
Tubing Volume per foot:	0.003	11.36	1/4" ID tubing		Sampling Method:	Ballier ☐	Peristaltic ☐
Well Volume per foot:	0.041	155.18	1" diam. well		Did well go dry?	Yes ☐	No ☒
	0.163	616.95	2" diam. well		Final Depth to Water (prior to turning off pump):	<u>26.20</u>	
	0.653	2,471.60	4" diam. well		Barometric Pressure (At time of sampling) in mm/Hg:		
FIELD PARAMETER READINGS:							
Time	<u>1419</u>						
Rate (ml/min)	<u>—</u>						
Depth to Water (ft. TOC)	<u>26.20</u>						
Temperature (°C)	<u>11.36</u>						
pH	<u>6.33</u>						
Conductivity (mS/cm)	<u>0.035</u>						
Dissolved Oxygen (mg/l)	<u>2.78</u>						
Turbidity (NTU)	<u>0.1</u>						
ORP (mV)	<u>126</u>						
Observations (water color, clarity, etc.):							
SAMPLE INFORMATION							
Sample List:	Sample ID: <u>SumpA-20201024</u>		Duplicate ID:		GRAB		
Diss. Chromium ☒	Start Time: <u>1423</u>		Sample Time:				
Diss. Hexavalent Chromium ☒	End Time: <u>1430</u>		Total Bottles:				
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒		Sampled By:				
Free Cyanide ☐	Duplicate: Yes ☐ No ☒		MS/MSD ID:				
Total Dissolved Solids ☐	Total Bottles: <u>3</u>		Sample Time:				
Free Cyanide Sulfide Test Strip: <u>Negative (No Change)</u>					UNIT STABILITY		
					pH	DO	Turb.
					Cond	ORP	

GROUNDWATER SAMPLING LOG
 Ashland Glens Falls, NY
 Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>Cody Murphy</u>				Well ID: <u>Sump B</u>													
Date: <u>10/28/20</u>				Original Install Depth: <u>21/2</u>		feet											
Weather: <u>40° Overcast</u>				Screen Length: <u>NA</u>		feet											
Time In: <u>1441</u> Time Out: <u>1508</u>				Well Diameter: <u>NA</u>		inches											
WELL INFORMATION																	
Depth to Water (from TOC):	(feet)	<u>23.16</u>	Top of Sump Box	Well Type:	Flushmount ☐	Stick-Up ☐	<u>Sump</u>										
Depth to Water (from TOC) With Pump in place:	(feet)	<u>1</u>		Well Locked:	Yes ☒	No ☐											
Total Depth (from TOC):	(feet)	<u>1</u>		Measuring Point Marked:	Yes ☒	No ☐											
Length of Water Column:	(feet)	<u>1</u>		Well Condition:	Good ☒	Poor ☐											
				Well Condition Comments:													
WELL WATER INFORMATION				EVAUATION INFORMATION													
Volume of Water in Well:	(ml. or gal)	<u>1</u>		Pump ID: <u>NA</u>	Pump Size: <u>NA</u>	Depth of Pump Intake: <u>NA</u>											
Pumping Rate of Pump:	(ml./min)	<u>1</u>		Evacuation Method:	Sailer ☒	Peristaltic ☐	Bladder ☐ Other ☐										
Total Volume Removed:	(ml. or gal)	<u>1</u>		Tubing Used:	Teflon ☐	Polyethylene ☐	N/A ☒										
Volume Measurements:	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): <u>HORIBA U-S</u> <u>WY106NXP</u>													
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Sailer ☒	Peristaltic ☐	Bladder ☐ Other ☐										
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒											
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): <u>23.16</u>													
	0.653	2,471.80	6" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:													
FIELD PARAMETER READINGS																	
Time	<u>1450</u>																
Rate (ml/min)	<u>NA</u>																
Depth to Water (ft. TOC)	<u>23.16</u>																
Temperature (°C)	<u>12.76</u>																
pH	<u>8.07</u>																
Conductivity (mS/cm)	<u>0.382</u>																
Dissolved Oxygen (mg/l)	<u>5.59</u>																
Turbidity (NTU)	<u>1.6</u>																
ORP (mV)	<u>169</u>																
SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:	Sample ID: <u>Sump B-200000</u>			Duplicate ID:													
Diss. Chromium & Manganese ☒	Start Time: <u>1455</u>			Sample Time:													
Diss. Hexavalent Chromium ☒	End Time: <u>1503</u>			Total Bottles:													
Total Cyanide ☒	MS/MSD: Yes ☐ No ☒			Sampled By:													
Free Cyanide ☐	Duplicate: Yes ☐ No ☒			MS/MSD ID:													
Total Dissolved Solids ☐	Total Bottles: <u>3</u>			Sample Name:													
Hardness ☐	Sampled By: <u>CM</u>			Total Bottles:													
VOCs (Dichlorobenzene) ☐				Sampled By:													
				Free Cyanide Sulfide Test Strip: <u>Positive (Yellow) / Negative (No change) - NA</u>													
				UNIT STABILITY													
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 20%, <10 NTU</td> <td>± 5%</td> <td>± 18 mV</td> </tr> </table>				pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 20%, <10 NTU	± 5%	± 18 mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 20%, <10 NTU	± 5%	± 18 mV													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: <u>JS+cm</u>				Well ID: <u>SW-01</u>			
Date: <u>10/29/20</u>				Original Install Depth: <u>NA</u>		feet	
Weather: <u>overcast 50°+</u>				Screen Length: <u>NA</u>		feet	
Time In: <u>840</u>		Time Out: <u>925</u>		Well Diameter: <u>NA</u>		inches	

WELL INFORMATION							
Depth to Water (from TOC): (feet)		<u>1</u>		Well Type:		Flushmount ☐ Stick-Up ☐ <u>Surface water</u>	
Depth to Water (From TOC) With Pump in place: (feet)		<u>1</u>		Well Locked:		Yes ☐ No ☐ <u>NA</u>	
Total Depth (from TOC): (feet)		<u>2.5</u>		Measuring Point Marked:		Yes ☐ No ☐ <u>NA</u>	
Length of Water Column: (feet)				Well Condition:		Good ☐ Poor ☐ <u>NA</u>	
Well Condition Comments:							

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (ml or gal)		<u>NA</u>		Pump ID: <u>4052</u>		Pump Size: <u>1/4 x 3/8</u> Depth of Pump Intake: <u>1.25</u>	
Pumping Rate of Pump: (ml/min)		<u>150</u>		Evacuation Method:		Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	
Total Volume Removed: (ml or gal)		<u>5 gallons</u>		Tubing Used:		Teflon ☐ Polyethylene ☒ N/A ☐	
Volume Measurements (gal)		(ml)		Water Quality Meter (type/Serial Number): <u>HORIBA / 45KTS72F</u>			
Tubing Volume per foot		0.003	11.36	1/4" ID tubing		Sampling Method: Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	
Well Volume per foot		0.041	155.18	1" diam. well		Did well go dry? Yes ☐ No ☐ <u>NA</u>	
		0.163	616.95	2" diam. well		Final Depth to Water (prior to turning off pump): <u>—</u>	
		0.653	2,471.60	4" diam. well		Barometric Pressure (At time of sampling) in mm/Hg:	

FIELD PARAMETER READINGS											
Time	<u>400</u>										
Rate (ml/min)	<u>150</u>										
Depth to Water (ft. TOC)	<u>1</u>										
Temperature (°C)	<u>10.93</u>										
pH	<u>5.37</u>										
Conductivity (mS/cm)	<u>6.65</u>										
Dissolved Oxygen (mg/L)	<u>9.25</u>										
Turbidity (NTU)	<u>0.0</u>										
ORP (mV)	<u>356</u>										

SAMPLE INFORMATION				OBSERVATIONS (water color, clarity, etc.):																		
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☒ Total Dissolved Solids ☒ Hardness ☒ VOCs (Dichlorobenzenes) ☐		Sample ID: <u>SW-01-2020-1029</u>		Duplicate ID: <u>SW-01-2020-020</u>		GRAB																
		Start Time: <u>905</u>		Sample Time:																		
		End Time: <u>915</u>		Total Bottles:																		
		MS/MSD: Yes ☐ No ☒		Sampled By:																		
		Duplicate: Yes ☐ No ☒		MS/MSD ID:																		
Total Bottles: <u>5</u>		Sample Time:		Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">UNIT STABILITY</th> </tr> <tr> <th>pH</th> <th>DO</th> <th>Turb.</th> <th>Cond</th> <th>ORP</th> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10 NTU</td> <td>± 3%</td> <td>± 10 mV</td> </tr> </table>		UNIT STABILITY					pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV
UNIT STABILITY																						
pH	DO	Turb.	Cond	ORP																		
± 0.1	± 10%	± 10%, <10 NTU	± 3%	± 10 mV																		
Sampled By: <u>cm</u>		Total Bottles:		Sample Time:																		
		Sampled By:																				

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: JS + CM		Well ID: SW-2	
Date: 10/29/20		Original Install Depth: NA feet	
Weather: OVERCAST 50°		Screen Length: NA feet	
Time In: 945 Time Out: 1020		Well Diameter: NA inches	

WELL INFORMATION			
Depth to Water (from TOC): (feet)	—	Well Type:	Flushmount ☐ Stick-Up ☐ Surface water
Depth to Water (From TOC) With Pump in place: (feet)	—	Well Locked:	Yes ☐ No ☐ NA
Total Depth (from TOC): (feet)	—	Measuring Point Marked:	Yes ☐ No ☐ NA
Length of Water Column: (feet)	—	Well Condition:	Good ☐ Poor ☐ NA
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well: (mL or gal)	NA			Pump ID: 4052	Pump Size: 1/4" 3/8"	Depth of Pump Intake: 1.25	
Pumping Rate of Pump: (mL/min)	150			Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐		
Total Volume Removed: (mL or gal)	15 gal			Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Water Quality Meter (type/Serial Number): HORIBA 1 45KTS728			
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐		
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐ No ☒ NA		
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump): NA			
	0.653	2,471.60	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			

FIELD PARAMETER READINGS:												
Time	958											
Rate (mL/min)	150											
Depth to Water (ft. TOC)	—											
Temperature (°C)	9.44											
pH	5.66											
Conductivity (mS/cm)	0.149											
Dissolved Oxygen (mg/L)	12.45											
Turbidity (NTU)	0.0											
ORP (mV)	346											

SAMPLE INFORMATION				Observations (water color, clarity, etc.):	
Sample List: Diss. Chromium & Vanadium ☒ Diss. Hexavalent Chromium ☒ Total Cyanide ☒ Free Cyanide ☐ Total Dissolved Solids ☒ Hardness ☒ VOCs (Dichlorobenzenes) ☐	Sample ID: SW-2 20201029		Duplicate ID:		GRAV Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)
	Start Time: 1000		Sample Time:		
	End Time: 1015		Total Bottles:		
	MS/MSD: Yes ☐ No ☒		Sampled By:		
	Duplicate: Yes ☐ No ☒		MS/MSD ID:		
Total Bottles: 5		Sample Time:		UNIT STABILITY	
Sampled By: CM		Total Bottles:		pH DO Turb. Cond. ORP ± 0.1 ± 10% ± 10%, <10 NTU ± 3% ± 10 mV	

GROUNDWATER SAMPLING LOG
Ashland Glens Falls, NY
Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: JS+CM				Well ID: SW-3													
Date: 10/29/20				Original Install Depth: -		feet											
Weather: overcast 50%				Screen Length: -		feet											
Time In: 1045 Time Out: 1150				Well Diameter: -		inches											
WELL INFORMATION																	
Depth to Water (from TOC):	(feet)	-	Well Type:	Flushmount ☐	Stick-Up ☐	Surface water											
Depth to Water (from TOC) With Pump in place:	(feet)	-	Well Locked:	Yes ☐	No ☐												
Total Depth (from TOC):	(feet)	-	Measuring Point Marked:	Yes ☐	No ☐												
Length of Water Column:	(feet)	-	Well Condition:	Good ☐	Poor ☐												
				Well Condition Comments:													
WELL WATER INFORMATION				EVACUATION INFORMATION													
Volume of Water in Well:	(ml or gal)	NA		Pump ID: 4052	Pump Size: 1/4 x 3/8"	Depth of Pump Intake: 1.5											
Pumping Rate of Pump:	(ml/min)	150		Evacuation Method:	Sailer ☐	Peristaltic ☒	Bladder ☐ Other ☐										
Total Volume Removed:	(ml or gal)			Tubing Used:	Teflon ☐	Polyethylene ☒	N/A ☐										
Volume Measurements:	(gal)	(ml)	Tubing/Well Size	Water Quality Meter (type/Serial Number): HORIBA 145KTSTZF													
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Sampling Method:	Sailer ☐	Peristaltic ☒	Bladder ☐ Other ☐										
Well Volume per foot	0.041	155.18	1" diam. well	Did well go dry?	Yes ☐	No ☒											
	0.163	616.95	2" diam. well	Final Depth to Water (prior to turning off pump):													
	0.653	2,471.80	4" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:													
FIELD PARAMETER READINGS:																	
Time	1100																
Rate (ml/min)	150																
Depth to Water (RL TOC)	-																
Temperature (°C)	9.62																
pH	5.98																
Conductivity (mS/cm)	0.156																
Dissolved Oxygen (mg/l)	11.70																
Turbidity (NTU)	0.0																
ORP (mV)	292																
SAMPLE INFORMATION				Observations (water color, clarity, etc.):													
Sample List:	Sample ID: SW-3-20201029		Duplicate ID: DUP-20201029		GRAB												
Diss. Chromium & Vanadium ☐ Diss. Hexavalent Chromium ☐ Total Cyanide ☐ Free Cyanide ☐ Total Dissolved Solids ☐ Hardness ☐ VOC's (Chlorobenzenes) ☐	Start Time: 1105		Sample Time: -														
	End Time: 1135		Total Bottles: 5														
	MS/MSD: Yes ☒ No ☐		Sampled By: CM														
	Duplicate: Yes ☒ No ☐		MS/MSD ID: SW-3-20201029														
	Total Bottles: 5		Sample Time: 1105		Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)												
	Sampled By: CM		Total Bottles: 5		UNIT STABILITY												
			Sampled By: CM		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>pH</td> <td>DO</td> <td>Turb.</td> <td>Cond</td> <td>ORP</td> </tr> <tr> <td>± 0.1</td> <td>± 10%</td> <td>± 10%, <10NTU</td> <td>± 3%</td> <td>± 10mV</td> </tr> </table>			pH	DO	Turb.	Cond	ORP	± 0.1	± 10%	± 10%, <10NTU	± 3%	± 10mV
pH	DO	Turb.	Cond	ORP													
± 0.1	± 10%	± 10%, <10NTU	± 3%	± 10mV													

GROUNDWATER SAMPLING LOG

Ashland Glens Falls, NY

Quarterly Groundwater & Surface Water Sampling Event

Sampling Personnel: JS+CM		Well ID: SW-4	
Date: 10/29/20		Original Install Depth: 1 feet	
Weather: overcast / rain 50%		Screen Length: 1 feet	
Time In: 1230 Time Out: 1330		Well Diameter: 1 inches	

WELL INFORMATION			
Depth to Water (from TOC):	(feet)	Well Type:	Flushmount ☐ Stick-Up ☐ SURFACE WATER
Depth to Water (From TOC) With Pump in place:	(feet)	Well Locked:	Yes ☐ No ☐
Total Depth (from TOC):	(feet)	Measuring Point Marked:	Yes ☐ No ☐
Length of Water Column:	(feet)	Well Condition:	Good ☐ Poor ☐
Well Condition Comments:			

WELL WATER INFORMATION				EVACUATION INFORMATION			
Volume of Water in Well:	(mL or gal)	Pump ID:	4052	Pump Size:		Depth of Pump Intake:	1.2
Pumping Rate of Pump:	(mL/min)	Evacuation Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐	Tubing Used:	Teflon ☐ Polyethylene ☒ N/A ☐		
Total Volume Removed:	(mL or gal)	Water Quality Meter (Type/Serial Number):	HORIZON / 45KTS72F				
Volume Measurements	(gal)	(mL)	Tubing/Well Size	Sampling Method:	Bailer ☐ Peristaltic ☒ Bladder ☐ Other ☐		
Tubing Volume per foot	0.003	11.36	1/4" ID tubing	Did well go dry?	Yes ☐ No ☒ N/A		
Well Volume per foot	0.041	155.18	1" diam. well	Final Depth to Water (prior to turning off pump):			
	0.163	616.95	2" diam. well	Barometric Pressure (At time of sampling) in mm/Hg:			
	0.653	2,471.60	4" diam. well				

FIELD PARAMETER READINGS:											
Time	1242										
Rate (mL/min)	150										
Depth to Water (ft. TOC)	1										
Temperature (°C)	9.26										
pH	5.77										
Conductivity (mS/cm)	6.078										
Dissolved Oxygen (mg/L)	13.29										
Turbidity (NTU)	0.0										
ORP (mV)	278										

SAMPLE INFORMATION		OBSERVATIONS (water color, clarity, etc.):				
Sample ID: SW-4 20201029	Duplicate ID:	GRAP				
Start Time: 1245	Sample Time:					
End Time: 1300	Total Bottles:					
MS/MSD: Yes ☐ No ☒	Sampled By:					
Duplicate: Yes ☐ No ☒	MS/MSD ID:	Free Cyanide Sulfide Test Strip: Positive (Black) / Negative (No change)				
Total Bottles: 3	Sample Time:	UNIT STABILITY				
Sampled By: CM	Total Bottles:	pH	DO	Turb.	Cond	ORP
	Sampled By:	± 0.1	± 1.0%	± 1.0%, <10 NTU	± 2%	± 10 mV

Sample List:	
Diss. Chromium & Vanadium ☒	
Diss. Hexavalent Chromium ☒	
Total Cyanide ☒	
Free Cyanide ☒	
Total Dissolved Solids ☒	
Hardness ☒	
VOCs (11: Chlorobenzenes) ☐	

QA/QC Tracking Sheet

Sample Team Members: Gunneth Crowe, Haley Brown, Cody Murphy, Joanna Scuteri

Date	Time	Sample ID	Sample Type	Comments (i.e. Pump ID, or Parent Sample)
10/26/2020	HSTO 1652	AW-RIK 20201076	M5/MSD	Pump 14310
10/26/2020	-	DUP 20201076	Duplicate	Pump 14310
10/26/2020	1830	EB 20201026	Equipment Blank	Pump 14310 after AW-B18
10/27/2020	1740	AW-C11 20201027	M5/MSD	Pump 14310
10/27/2020	1645	EB 20201027	Equipment Blank	Pump 14311 After AW-A19
10/28/2020	MW-OB30 1051	MW-OB30 20201028	M5/MSD	4052 (Just PFAS)
10/28/2020	-	DUP-O1 20201028	Duplicate	taken @ MW-OB30 (Just PFAS)
10/28/2020	-	FW-B5 20201028	Duplicate taken @ FW-B5	
10/28/2020	1615	EB 20201028	Eat Blank	4068 after MW-OB34
10/29/2020	1400	EB 20201029	Eat blank	4052 after SW-4
10/29/2020	SW-3 1051	SW-3 20201029	M5/MSD	pump 4052
10/29/2020	-	DUP 20201029	Duplicate	pump 4052
10/30/2020	1100	M5 EB 20201030	Equipment Blank	taken with pump 4052

EB - Equipment blank. Record wells sampled directly before and after blank collection and equipment blank collected from
 DUP - Duplicate sample. Record sample location where duplicate collected
 MS/MSD - Matrix spike, Record sample location where collected
 Other - record details of sample and where and why collected



Appendix B Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177359-1

Client Project/Site: Hercules Glens Falls 4Q20

For:

Ashland LLC
5200 Blazer Parkway
DS-4
Dublin, Ohio 43017

Attn: Mr. Jim Vondracek



Authorized for release by:
11/16/2020 12:13:40 PM

Eddie Barnett, Project Manager I
(912)250-0280
Eddie.Barnett@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Job ID: 480-177359-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

CASE NARRATIVE Client: Ashland LLC Project: Hercules Glens Falls 4Q20

Report Number: 480-177359-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/31/2020; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 4.2° C.

VOLATILE ORGANIC COMPOUNDS

Samples AW-B18_20201026 (480-177359-4), DUP_20201026 (480-177359-5), EB_20201026 (480-177359-30) and TRIP BLANKS (480-177359-35) were analyzed for Volatile Organic Compounds in accordance with EPA SW846 Method 8260C. The samples were analyzed on 11/02/2020.

1,2-Dichlorobenzene recovered high for the MSD of sample AW-B18_20201026MSD (480-177359-4) in batch 480-556949. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS) - DISSOLVED

Samples IP-4_20201026 (480-177359-1), MW-OB25_20201028 (480-177359-2), MW-OB14_20201029 (480-177359-3), AW-B18_20201026 (480-177359-4), DUP_20201026 (480-177359-5), MW-31_20201027 (480-177359-6), AW-B4_20201027 (480-177359-7), SW-1_20201029 (480-177359-8), SW-2_20201029 (480-177359-9), SW-3_20201029 (480-177359-10), SW-4_20201029 (480-177359-11), AW-A11_20201027 (480-177359-12), AW-A14_20201027 (480-177359-13), AW-C11_20201027 (480-177359-14), DUP_20201029 (480-177359-15), MW-OB30_20201029 (480-177359-16), MW-OB31_20201028 (480-177359-17), MW-OB32_20201028 (480-177359-18), MW-OB33_20201028 (480-177359-19), MW-OB34_20201028 (480-177359-20), MW-26_20201027 (480-177359-21), AW-C2_20201027 (480-177359-22), MW-25S_20201028 (480-177359-23), EW-B5_20201028 (480-177359-24), DUP-02_20201028 (480-177359-25), SUMP-A_20201028 (480-177359-26), SUMP-B_20201028 (480-177359-27), MW-OB26_20201029 (480-177359-28), EB_20201026 (480-177359-30), EB_20201027 (480-177359-31), EB_20201028 (480-177359-32) and EB_20201029 (480-177359-33) were analyzed for Metals (ICPMS) - Dissolved in accordance with EPA SW-846 Method 6020A. The samples were prepared on 11/10/2020 and 11/11/2020 and analyzed on 11/11/2020.

Dissolved Chromium recovered high for the MS of sample AW-C11_20201027MS (480-177359-14) and MSD of sample AW-C11_20201027MSD (480-177359-14) in batch 480-558602. Refer to the QC report for details.

Dissolved Chromium recovered high for the MS of sample EW-B5_20201028MS (480-177359-24) and MSD of sample EW-B5_20201028MSD (480-177359-24) in batch 480-558652. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS

Samples SW-1_20201029 (480-177359-8), SW-2_20201029 (480-177359-9), SW-3_20201029 (480-177359-10), SW-4_20201029 (480-177359-11), DUP_20201029 (480-177359-15) and EB_20201029 (480-177359-33) were analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 11/09/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Job ID: 480-177359-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

TOTAL DISSOLVED SOLIDS

Samples SW-1_20201029 (480-177359-8), SW-2_20201029 (480-177359-9), SW-3_20201029 (480-177359-10), SW-4_20201029 (480-177359-11), DUP_20201029 (480-177359-15) and EB_20201029 (480-177359-33) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 11/05/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples IP-4_20201026 (480-177359-1), MW-OB25_20201028 (480-177359-2), MW-OB14_20201029 (480-177359-3), AW-B18_20201026 (480-177359-4), DUP_20201026 (480-177359-5), MW-31_20201027 (480-177359-6), AW-B4_20201027 (480-177359-7), AW-A11_20201027 (480-177359-12), AW-A14_20201027 (480-177359-13), AW-C11_20201027 (480-177359-14), DUP_20201029 (480-177359-15), MW-OB30_20201029 (480-177359-16), MW-OB31_20201028 (480-177359-17), MW-OB32_20201028 (480-177359-18), MW-OB33_20201028 (480-177359-19), MW-OB34_20201028 (480-177359-20), MW-26_20201027 (480-177359-21), AW-C2_20201027 (480-177359-22), MW-25S_20201028 (480-177359-23), EW-B5_20201028 (480-177359-24), DUP-02_20201028 (480-177359-25), SUMP-A_20201028 (480-177359-26), SUMP-B_20201028 (480-177359-27), MW-OB26_20201030 (480-177359-29), EB_20201026 (480-177359-30), EB_20201027 (480-177359-31), EB_20201028 (480-177359-32), EB_20201029 (480-177359-33) and EB_20201030 (480-177359-34) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 11/04/2020, 11/05/2020, 11/06/2020, 11/09/2020 and 11/11/2020 and analyzed on 11/05/2020, 11/06/2020, 11/07/2020, 11/10/2020 and 11/12/2020.

Cyanide, Total recovered low for the MSD of sample AW-C11_20201027MSD (480-177359-14) in batch 480-557902. Refer to the QC report for details.

Cyanide, Total recovered low for the MS of sample MW-26_20201027MS (480-177359-21) in batch 480-557638. Refer to the QC report for details.

Cyanide, Total recovered low for the MS of sample AW-B18_20201026MS (480-177359-4) and MSD of sample AW-B18_20201026MSD (480-177359-4) in batch 480-557820. Refer to the QC report for details.

Samples IP-4_20201026 (480-177359-1)[5X] and MW-OB32_20201028 (480-177359-18)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: IP-4_20201026

Lab Sample ID: 480-177359-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	7.3		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.93		0.050	0.025	mg/L	5		9012B	Total/NA

Client Sample ID: MW-OB25_20201028

Lab Sample ID: 480-177359-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	2600		7.5	1.8	ug/L	5		6020A	Dissolved
Cyanide, Total	0.36		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-OB14_20201029

Lab Sample ID: 480-177359-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	5500		15	3.6	ug/L	10		6020A	Dissolved
Cyanide, Total	0.44		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: AW-B18_20201026

Lab Sample ID: 480-177359-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	34	F1	1.0	0.79	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	3.6		1.0	0.84	ug/L	1		8260C	Total/NA
Dissolved Chromium	3.0		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.14		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: DUP_20201026

Lab Sample ID: 480-177359-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	37		1.0	0.79	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	4.1		1.0	0.84	ug/L	1		8260C	Total/NA
Dissolved Chromium	1.2	J	1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.12		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-31_20201027

Lab Sample ID: 480-177359-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	8.1		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.21		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: AW-B4_20201027

Lab Sample ID: 480-177359-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	7.5		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.11		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: SW-1_20201029

Lab Sample ID: 480-177359-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	0.38	J	1.5	0.36	ug/L	1		6020A	Dissolved
Hardness as calcium carbonate	36000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	83		10	4.0	mg/L	1		SM 2540C	Dissolved

Client Sample ID: SW-2_20201029

Lab Sample ID: 480-177359-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	36000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	110		10	4.0	mg/L	1		SM 2540C	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: SW-3_20201029

Lab Sample ID: 480-177359-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	0.39	J	1.5	0.36	ug/L	1		6020A	Dissolved
Hardness as calcium carbonate	40000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	120		10	4.0	mg/L	1		SM 2540C	Dissolved

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177359-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	40000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	140		10	4.0	mg/L	1		SM 2540C	Dissolved

Client Sample ID: AW-A11_20201027

Lab Sample ID: 480-177359-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	41		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.049		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: AW-A14_20201027

Lab Sample ID: 480-177359-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	3.1		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.046		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: AW-C11_20201027

Lab Sample ID: 480-177359-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	1600		7.5	1.8	ug/L	5		6020A	Dissolved
Cyanide, Total	0.052	F1	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177359-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	0.71	J	1.5	0.36	ug/L	1		6020A	Dissolved
Hardness as calcium carbonate	40000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	110		10	4.0	mg/L	1		SM 2540C	Dissolved

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177359-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	220		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.023		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177359-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	110		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.048		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177359-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	110		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	6.8		0.20	0.10	mg/L	20		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177359-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	2500		7.5	1.8	ug/L	5		6020A	Dissolved
Cyanide, Total	0.14		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177359-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	100		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.59		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177359-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	2.9		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.056	F1	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177359-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	12		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.024		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177359-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	18		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.22		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177359-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	43000		750	180	ug/L	500		6020A	Dissolved
Cyanide, Total	0.19		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177359-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	44000		750	180	ug/L	500		6020A	Dissolved
Cyanide, Total	0.21		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177359-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	190		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.38		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177359-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	100		1.5	0.36	ug/L	1		6020A	Dissolved
Cyanide, Total	0.28		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177359-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	21		1.5	0.36	ug/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-OB26_20201030

Lab Sample ID: 480-177359-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.22		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: EB_20201026

Lab Sample ID: 480-177359-30

No Detections.

Client Sample ID: EB_20201027

Lab Sample ID: 480-177359-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Chromium	0.57	J	1.5	0.36	ug/L	1		6020A	Dissolved

Client Sample ID: EB_20201028

Lab Sample ID: 480-177359-32

No Detections.

Client Sample ID: EB_20201029

Lab Sample ID: 480-177359-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0082	J	0.010	0.0050	mg/L	1		9012B	Total/NA
Hardness as calcium carbonate	88000		4000	1100	ug/L	1		SM 2340C	Total/NA
Total Dissolved Solids	150		10	4.0	mg/L	1		SM 2540C	Dissolved

Client Sample ID: EB_20201030

Lab Sample ID: 480-177359-34

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-177359-35

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: IP-4_20201026

Lab Sample ID: 480-177359-1

Date Collected: 10/26/20 17:37

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	7.3		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.93		0.050	0.025	mg/L		11/05/20 17:33	11/06/20 10:28	5

Client Sample ID: MW-OB25_20201028

Lab Sample ID: 480-177359-2

Date Collected: 10/28/20 15:49

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	2600		7.5	1.8	ug/L		11/10/20 14:39	11/11/20 15:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.36		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:30	1

Client Sample ID: MW-OB14_20201029

Lab Sample ID: 480-177359-3

Date Collected: 10/29/20 13:18

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	5500		15	3.6	ug/L		11/10/20 14:39	11/11/20 15:45	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.44		0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:29	1

Client Sample ID: AW-B18_20201026

Lab Sample ID: 480-177359-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	34	F1	1.0	0.79	ug/L			11/02/20 15:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/20 15:19	1
1,4-Dichlorobenzene	3.6		1.0	0.84	ug/L			11/02/20 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		80 - 120		11/02/20 15:19	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/02/20 15:19	1
4-Bromofluorobenzene (Surr)	87		73 - 120		11/02/20 15:19	1
Dibromofluoromethane (Surr)	97		75 - 123		11/02/20 15:19	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	3.0		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: AW-B18_20201026

Lab Sample ID: 480-177359-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14		0.010	0.0050	mg/L		11/04/20 23:04	11/05/20 11:23	1

Client Sample ID: DUP_20201026

Lab Sample ID: 480-177359-5

Date Collected: 10/26/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	37		1.0	0.79	ug/L			11/02/20 15:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/20 15:44	1
1,4-Dichlorobenzene	4.1		1.0	0.84	ug/L			11/02/20 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120					11/02/20 15:44	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					11/02/20 15:44	1
4-Bromofluorobenzene (Surr)	87		73 - 120					11/02/20 15:44	1
Dibromofluoromethane (Surr)	96		75 - 123					11/02/20 15:44	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.2	J	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12		0.010	0.0050	mg/L		11/04/20 23:04	11/05/20 11:37	1

Client Sample ID: MW-31_20201027

Lab Sample ID: 480-177359-6

Date Collected: 10/27/20 10:04

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	8.1		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21		0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:31	1

Client Sample ID: AW-B4_20201027

Lab Sample ID: 480-177359-7

Date Collected: 10/27/20 12:55

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	7.5		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11		0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:33	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: SW-1_20201029

Lab Sample ID: 480-177359-8

Date Collected: 10/29/20 09:05

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	0.38	J	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:10	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	36000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	83		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: SW-2_20201029

Lab Sample ID: 480-177359-9

Date Collected: 10/29/20 10:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:12	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	36000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: SW-3_20201029

Lab Sample ID: 480-177359-10

Date Collected: 10/29/20 11:05

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	0.39	J	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:14	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	40000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177359-11

Date Collected: 10/29/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:21	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177359-11

Date Collected: 10/29/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	40000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: AW-A11_20201027

Lab Sample ID: 480-177359-12

Date Collected: 10/27/20 16:54

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	41		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.049		0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:34	1

Client Sample ID: AW-A14_20201027

Lab Sample ID: 480-177359-13

Date Collected: 10/27/20 15:10

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	3.1		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.046		0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:35	1

Client Sample ID: AW-C11_20201027

Lab Sample ID: 480-177359-14

Date Collected: 10/27/20 12:40

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1600		7.5	1.8	ug/L		11/10/20 14:39	11/11/20 13:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.052	F1	0.010	0.0050	mg/L		11/05/20 22:40	11/06/20 16:41	1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177359-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	0.71	J	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177359-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:30	1
Hardness as calcium carbonate	40000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177359-16

Date Collected: 10/29/20 09:30

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	220		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.023		0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:34	1

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177359-17

Date Collected: 10/28/20 10:15

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	110		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.048		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:34	1

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177359-18

Date Collected: 10/28/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	110		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	6.8		0.20	0.10	mg/L		11/05/20 17:33	11/06/20 10:54	20

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177359-19

Date Collected: 10/28/20 14:27

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	2500		7.5	1.8	ug/L		11/10/20 14:39	11/11/20 15:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:37	1

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177359-20

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	100		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.59		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:38	1

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177359-21

Date Collected: 10/27/20 14:46

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	2.9		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.056	F1	0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:40	1

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177359-22

Date Collected: 10/27/20 15:32

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	12		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.024		0.010	0.0050	mg/L		11/09/20 20:14	11/10/20 11:43	1

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177359-23

Date Collected: 10/28/20 09:40

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	18		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177359-24

Date Collected: 10/28/20 11:14

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	43000		750	180	ug/L		11/11/20 12:00	11/11/20 19:00	500

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:41	1

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177359-25

Date Collected: 10/28/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	44000		750	180	ug/L		11/11/20 12:00	11/11/20 19:19	500

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21		0.010	0.0050	mg/L		11/09/20 20:14	11/10/20 11:45	1

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177359-26

Date Collected: 10/28/20 14:25

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	190		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.38		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:43	1

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177359-27

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	100		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.28		0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:44	1

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177359-28

Date Collected: 10/29/20 11:20

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	21		1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:15	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-OB26_20201030

Lab Sample ID: 480-177359-29

Date Collected: 10/30/20 11:00

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22		0.010	0.0050	mg/L		11/11/20 22:58	11/12/20 12:58	1

Client Sample ID: EB_20201026

Lab Sample ID: 480-177359-30

Date Collected: 10/26/20 18:30

Matrix: Water

Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/02/20 16:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/20 16:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/02/20 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					11/02/20 16:08	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					11/02/20 16:08	1
4-Bromofluorobenzene (Surr)	98		73 - 120					11/02/20 16:08	1
Dibromofluoromethane (Surr)	97		75 - 123					11/02/20 16:08	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/04/20 23:04	11/05/20 11:39	1

Client Sample ID: EB_20201027

Lab Sample ID: 480-177359-31

Date Collected: 10/27/20 16:45

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	0.57	J	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:45	1

Client Sample ID: EB_20201028

Lab Sample ID: 480-177359-32

Date Collected: 10/28/20 16:15

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:47	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: EB_20201029

Lab Sample ID: 480-177359-33

Date Collected: 10/29/20 14:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:31	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0082	J	0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:36	1
Hardness as calcium carbonate	88000		4000	1100	ug/L			11/09/20 14:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	4.0	mg/L			11/05/20 20:19	1

Client Sample ID: EB_20201030

Lab Sample ID: 480-177359-34

Date Collected: 10/30/20 11:30

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:37	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-177359-35

Date Collected: 10/26/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/02/20 16:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/20 16:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/02/20 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					11/02/20 16:34	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					11/02/20 16:34	1
4-Bromofluorobenzene (Surr)	95		73 - 120					11/02/20 16:34	1
Dibromofluoromethane (Surr)	99		75 - 123					11/02/20 16:34	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-177359-4	AW-B18_20201026	89	103	87	97
480-177359-4 MS	AW-B18_20201026	88	99	84	94
480-177359-4 MSD	AW-B18_20201026	92	103	92	98
480-177359-5	DUP_20201026	90	102	87	96
480-177359-30	EB_20201026	97	103	98	97
480-177359-35	TRIP BLANKS	97	104	95	99
LCS 480-556949/5	Lab Control Sample	97	101	96	95
MB 480-556949/7	Method Blank	99	102	98	96

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-556949/7

Matrix: Water

Analysis Batch: 556949

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/02/20 14:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/02/20 14:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/02/20 14:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		11/02/20 14:43	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/02/20 14:43	1
4-Bromofluorobenzene (Surr)	98		73 - 120		11/02/20 14:43	1
Dibromofluoromethane (Surr)	96		75 - 123		11/02/20 14:43	1

Lab Sample ID: LCS 480-556949/5

Matrix: Water

Analysis Batch: 556949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123

Lab Sample ID: 480-177359-4 MS

Matrix: Water

Analysis Batch: 556949

Client Sample ID: AW-B18_20201026

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	34	F1	25.0	62.7		ug/L		116	80 - 124
1,3-Dichlorobenzene	1.0	U	25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	3.6		25.0	28.7		ug/L		100	78 - 124

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	88		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	84		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123

Lab Sample ID: 480-177359-4 MSD

Matrix: Water

Analysis Batch: 556949

Client Sample ID: AW-B18_20201026

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2-Dichlorobenzene	34	F1	25.0	65.5	F1	ug/L		127	80 - 124	4	20
1,3-Dichlorobenzene	1.0	U	25.0	26.4		ug/L		105	77 - 120	2	20
1,4-Dichlorobenzene	3.6		25.0	29.8		ug/L		105	78 - 124	4	20

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-558304/1-A

Matrix: Water

Analysis Batch: 558594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 558304

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 12:33	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 12:33	1

Lab Sample ID: LCS 480-558304/2-A

Matrix: Water

Analysis Batch: 558594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Dissolved Chromium	20.0	20.7		ug/L		103	80 - 120	
Dissolved Vanadium	20.0	20.2		ug/L		101	80 - 120	

Lab Sample ID: MB 480-558307/1-A

Matrix: Water

Analysis Batch: 558581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 558307

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/10/20 14:39	11/11/20 11:18	1
Dissolved Vanadium	4.0	U	4.0	1.2	ug/L		11/10/20 14:39	11/11/20 11:18	1

Lab Sample ID: LCS 480-558307/2-A

Matrix: Water

Analysis Batch: 558581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Dissolved Chromium	20.0	20.6		ug/L		103	80 - 120	
Dissolved Vanadium	20.0	20.2		ug/L		101	80 - 120	

Lab Sample ID: MB 480-558553/1-A

Matrix: Water

Analysis Batch: 558652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 558553

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dissolved Chromium	1.5	U	1.5	0.36	ug/L		11/11/20 12:00	11/11/20 18:38	1

Lab Sample ID: LCS 480-558553/2-A

Matrix: Water

Analysis Batch: 558652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Dissolved Chromium	20.0	20.7		ug/L		104	80 - 120	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 480-177359-4 MS

Matrix: Water

Analysis Batch: 558594

Client Sample ID: AW-B18_20201026

Prep Type: Dissolved

Prep Batch: 558304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Chromium	3.0		20.0	20.2		ug/L		86	75 - 125		

Lab Sample ID: 480-177359-4 MSD

Matrix: Water

Analysis Batch: 558594

Client Sample ID: AW-B18_20201026

Prep Type: Dissolved

Prep Batch: 558304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Dissolved Chromium	3.0		20.0	20.5		ug/L		88	75 - 125	1	20

Lab Sample ID: 480-177359-10 MS

Matrix: Water

Analysis Batch: 558594

Client Sample ID: SW-3_20201029

Prep Type: Dissolved

Prep Batch: 558304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Chromium	0.39	J	20.0	20.2		ug/L		99	75 - 125		
Dissolved Vanadium	4.0	U	20.0	20.2		ug/L		101	75 - 125		

Lab Sample ID: 480-177359-10 MSD

Matrix: Water

Analysis Batch: 558594

Client Sample ID: SW-3_20201029

Prep Type: Dissolved

Prep Batch: 558304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Dissolved Chromium	0.39	J	20.0	20.5		ug/L		101	75 - 125	2	20
Dissolved Vanadium	4.0	U	20.0	20.5		ug/L		102	75 - 125	1	20

Lab Sample ID: 480-177359-14 MS

Matrix: Water

Analysis Batch: 558602

Client Sample ID: AW-C11_20201027

Prep Type: Dissolved

Prep Batch: 558307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Chromium	1600		20.0	1760	4	ug/L		574	75 - 125		

Lab Sample ID: 480-177359-14 MSD

Matrix: Water

Analysis Batch: 558602

Client Sample ID: AW-C11_20201027

Prep Type: Dissolved

Prep Batch: 558307

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Dissolved Chromium	1600		20.0	1730	4	ug/L		438	75 - 125	2	20

Lab Sample ID: 480-177359-24 MS

Matrix: Water

Analysis Batch: 558652

Client Sample ID: EW-B5_20201028

Prep Type: Dissolved

Prep Batch: 558553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Chromium	43000		20.0	43200	4	ug/L		2048	75 - 125		

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 480-177359-24 MSD

Matrix: Water

Analysis Batch: 558652

Client Sample ID: EW-B5_20201028

Prep Type: Dissolved

Prep Batch: 558553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Chromium	43000		20.0	44100	4	ug/L		6613	75 - 125	2	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-557495/1-A

Matrix: Water

Analysis Batch: 557603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/04/20 23:04	11/05/20 11:17	1

Lab Sample ID: LCS 480-557495/3-A

Matrix: Water

Analysis Batch: 557603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.231		mg/L		92	90 - 110

Lab Sample ID: MB 480-557496/1-A

Matrix: Water

Analysis Batch: 557638

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/04/20 23:09	11/05/20 13:05	1

Lab Sample ID: LCS 480-557496/2-A

Matrix: Water

Analysis Batch: 557638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: 480-177359-21 MS

Matrix: Water

Analysis Batch: 557638

Client Sample ID: MW-26_20201027

Prep Type: Total/NA

Prep Batch: 557496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.056	F1	0.100	0.138	F1	mg/L		82	90 - 110

Lab Sample ID: MB 480-557685/1-A

Matrix: Water

Analysis Batch: 557820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/05/20 17:33	11/06/20 10:17	1

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-557685/2-A
Matrix: Water
Analysis Batch: 557820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.394		mg/L		99	90 - 110

Lab Sample ID: LCS 480-557685/3-A
Matrix: Water
Analysis Batch: 557820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.232		mg/L		93	90 - 110

Lab Sample ID: 480-177359-4 MS
Matrix: Water
Analysis Batch: 557820

Client Sample ID: AW-B18_20201026
Prep Type: Total/NA
Prep Batch: 557685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.13	F1	0.100	0.216	F1	mg/L		86	90 - 110

Lab Sample ID: 480-177359-4 MSD
Matrix: Water
Analysis Batch: 557820

Client Sample ID: AW-B18_20201026
Prep Type: Total/NA
Prep Batch: 557685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.13	F1	0.100	0.195	F1	mg/L		65	90 - 110	10	15

Lab Sample ID: MB 480-557716/1-A
Matrix: Water
Analysis Batch: 557902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/05/20 22:40	11/06/20 16:37	1

Lab Sample ID: LCS 480-557716/2-A
Matrix: Water
Analysis Batch: 557902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.235		mg/L		94	90 - 110

Lab Sample ID: 480-177359-14 MS
Matrix: Water
Analysis Batch: 557902

Client Sample ID: AW-C11_20201027
Prep Type: Total/NA
Prep Batch: 557716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.052	F1	0.100	0.144		mg/L		92	90 - 110

Lab Sample ID: 480-177359-14 MSD
Matrix: Water
Analysis Batch: 557902

Client Sample ID: AW-C11_20201027
Prep Type: Total/NA
Prep Batch: 557716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.052	F1	0.100	0.141	F1	mg/L		89	90 - 110	2	15

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-557927/1-A

Matrix: Water

Analysis Batch: 557982

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/06/20 21:24	11/07/20 15:17	1

Lab Sample ID: LCS 480-557927/2-A

Matrix: Water

Analysis Batch: 557982

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: MB 480-558218/1-A

Matrix: Water

Analysis Batch: 558340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 558218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/09/20 20:14	11/10/20 11:33	1

Lab Sample ID: LCS 480-558218/2-A

Matrix: Water

Analysis Batch: 558340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/L		98	90 - 110

Lab Sample ID: MB 480-558664/1-A

Matrix: Water

Analysis Batch: 558787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 558664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/11/20 22:58	11/12/20 12:38	1

Lab Sample ID: LCS 480-558664/2-A

Matrix: Water

Analysis Batch: 558787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.439		mg/L		110	90 - 110

Lab Sample ID: LCS 480-558664/3-A

Matrix: Water

Analysis Batch: 558787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 558664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.238		mg/L		95	90 - 110

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method: SM 2340C - Hardness, Total (mg/l as CaCO3)

Lab Sample ID: MB 480-558201/3

Matrix: Water

Analysis Batch: 558201

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2000	U	2000	530	ug/L			11/09/20 14:04	1

Lab Sample ID: LCS 480-558201/4

Matrix: Water

Analysis Batch: 558201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	109000	112000		ug/L		103	90 - 110

Lab Sample ID: 480-177359-10 MS

Matrix: Water

Analysis Batch: 558201

Client Sample ID: SW-3_20201029

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	40000		200000	252000		ug/L		106	74 - 130

Lab Sample ID: 480-177359-10 MSD

Matrix: Water

Analysis Batch: 558201

Client Sample ID: SW-3_20201029

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	40000		200000	248000		ug/L		104	74 - 130	2	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-557706/1

Matrix: Water

Analysis Batch: 557706

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	4.0	mg/L			11/05/20 20:19	1

Lab Sample ID: LCS 480-557706/2

Matrix: Water

Analysis Batch: 557706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	495	515		mg/L		104	85 - 115

Lab Sample ID: 480-177359-8 DU

Matrix: Water

Analysis Batch: 557706

Client Sample ID: SW-1_20201029

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	83		89.0		mg/L		7	10

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

GC/MS VOA

Analysis Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-4	AW-B18_20201026	Total/NA	Water	8260C	
480-177359-5	DUP_20201026	Total/NA	Water	8260C	
480-177359-30	EB_20201026	Total/NA	Water	8260C	
480-177359-35	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-556949/7	Method Blank	Total/NA	Water	8260C	
LCS 480-556949/5	Lab Control Sample	Total/NA	Water	8260C	
480-177359-4 MS	AW-B18_20201026	Total/NA	Water	8260C	
480-177359-4 MSD	AW-B18_20201026	Total/NA	Water	8260C	

Metals

Prep Batch: 558304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-1	IP-4_20201026	Dissolved	Water	3020A	
480-177359-2	MW-OB25_20201028	Dissolved	Water	3020A	
480-177359-3	MW-OB14_20201029	Dissolved	Water	3020A	
480-177359-4	AW-B18_20201026	Dissolved	Water	3020A	
480-177359-5	DUP_20201026	Dissolved	Water	3020A	
480-177359-6	MW-31_20201027	Dissolved	Water	3020A	
480-177359-7	AW-B4_20201027	Dissolved	Water	3020A	
480-177359-8	SW-1_20201029	Dissolved	Water	3020A	
480-177359-9	SW-2_20201029	Dissolved	Water	3020A	
480-177359-10	SW-3_20201029	Dissolved	Water	3020A	
480-177359-11	SW-4_20201029	Dissolved	Water	3020A	
480-177359-12	AW-A11_20201027	Dissolved	Water	3020A	
MB 480-558304/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-558304/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-177359-4 MS	AW-B18_20201026	Dissolved	Water	3020A	
480-177359-4 MSD	AW-B18_20201026	Dissolved	Water	3020A	
480-177359-10 MS	SW-3_20201029	Dissolved	Water	3020A	
480-177359-10 MSD	SW-3_20201029	Dissolved	Water	3020A	

Prep Batch: 558307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-13	AW-A14_20201027	Dissolved	Water	3020A	
480-177359-14	AW-C11_20201027	Dissolved	Water	3020A	
480-177359-15	DUP_20201029	Dissolved	Water	3020A	
480-177359-16	MW-OB30_20201029	Dissolved	Water	3020A	
480-177359-17	MW-OB31_20201028	Dissolved	Water	3020A	
480-177359-18	MW-OB32_20201028	Dissolved	Water	3020A	
480-177359-19	MW-OB33_20201028	Dissolved	Water	3020A	
480-177359-20	MW-OB34_20201028	Dissolved	Water	3020A	
480-177359-21	MW-26_20201027	Dissolved	Water	3020A	
480-177359-22	AW-C2_20201027	Dissolved	Water	3020A	
480-177359-23	MW-25S_20201028	Dissolved	Water	3020A	
480-177359-26	SUMP-A_20201028	Dissolved	Water	3020A	
480-177359-27	SUMP-B_20201028	Dissolved	Water	3020A	
480-177359-28	MW-OB26_20201029	Dissolved	Water	3020A	
480-177359-30	EB_20201026	Dissolved	Water	3020A	
480-177359-31	EB_20201027	Dissolved	Water	3020A	
480-177359-32	EB_20201028	Dissolved	Water	3020A	

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Metals (Continued)

Prep Batch: 558307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-33	EB_20201029	Dissolved	Water	3020A	
MB 480-558307/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-558307/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-177359-14 MS	AW-C11_20201027	Dissolved	Water	3020A	
480-177359-14 MSD	AW-C11_20201027	Dissolved	Water	3020A	

Prep Batch: 558553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-24	EW-B5_20201028	Dissolved	Water	3020A	
480-177359-25	DUP-02_20201028	Dissolved	Water	3020A	
MB 480-558553/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-558553/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-177359-24 MS	EW-B5_20201028	Dissolved	Water	3020A	
480-177359-24 MSD	EW-B5_20201028	Dissolved	Water	3020A	

Analysis Batch: 558581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-13	AW-A14_20201027	Dissolved	Water	6020A	558307
480-177359-15	DUP_20201029	Dissolved	Water	6020A	558307
480-177359-16	MW-OB30_20201029	Dissolved	Water	6020A	558307
480-177359-17	MW-OB31_20201028	Dissolved	Water	6020A	558307
480-177359-18	MW-OB32_20201028	Dissolved	Water	6020A	558307
480-177359-20	MW-OB34_20201028	Dissolved	Water	6020A	558307
480-177359-21	MW-26_20201027	Dissolved	Water	6020A	558307
480-177359-22	AW-C2_20201027	Dissolved	Water	6020A	558307
480-177359-23	MW-25S_20201028	Dissolved	Water	6020A	558307
480-177359-26	SUMP-A_20201028	Dissolved	Water	6020A	558307
480-177359-27	SUMP-B_20201028	Dissolved	Water	6020A	558307
480-177359-28	MW-OB26_20201029	Dissolved	Water	6020A	558307
480-177359-30	EB_20201026	Dissolved	Water	6020A	558307
480-177359-31	EB_20201027	Dissolved	Water	6020A	558307
480-177359-32	EB_20201028	Dissolved	Water	6020A	558307
480-177359-33	EB_20201029	Dissolved	Water	6020A	558307
MB 480-558307/1-A	Method Blank	Total/NA	Water	6020A	558307
LCS 480-558307/2-A	Lab Control Sample	Total/NA	Water	6020A	558307

Analysis Batch: 558594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-1	IP-4_20201026	Dissolved	Water	6020A	558304
480-177359-4	AW-B18_20201026	Dissolved	Water	6020A	558304
480-177359-5	DUP_20201026	Dissolved	Water	6020A	558304
480-177359-6	MW-31_20201027	Dissolved	Water	6020A	558304
480-177359-7	AW-B4_20201027	Dissolved	Water	6020A	558304
480-177359-8	SW-1_20201029	Dissolved	Water	6020A	558304
480-177359-9	SW-2_20201029	Dissolved	Water	6020A	558304
480-177359-10	SW-3_20201029	Dissolved	Water	6020A	558304
480-177359-11	SW-4_20201029	Dissolved	Water	6020A	558304
480-177359-12	AW-A11_20201027	Dissolved	Water	6020A	558304
MB 480-558304/1-A	Method Blank	Total/NA	Water	6020A	558304
LCS 480-558304/2-A	Lab Control Sample	Total/NA	Water	6020A	558304
480-177359-4 MS	AW-B18_20201026	Dissolved	Water	6020A	558304

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Metals (Continued)

Analysis Batch: 558594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-4 MSD	AW-B18_20201026	Dissolved	Water	6020A	558304
480-177359-10 MS	SW-3_20201029	Dissolved	Water	6020A	558304
480-177359-10 MSD	SW-3_20201029	Dissolved	Water	6020A	558304

Analysis Batch: 558602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-14	AW-C11_20201027	Dissolved	Water	6020A	558307
480-177359-14 MS	AW-C11_20201027	Dissolved	Water	6020A	558307
480-177359-14 MSD	AW-C11_20201027	Dissolved	Water	6020A	558307

Analysis Batch: 558618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-2	MW-OB25_20201028	Dissolved	Water	6020A	558304
480-177359-3	MW-OB14_20201029	Dissolved	Water	6020A	558304
480-177359-19	MW-OB33_20201028	Dissolved	Water	6020A	558307

Analysis Batch: 558652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-24	EW-B5_20201028	Dissolved	Water	6020A	558553
480-177359-25	DUP-02_20201028	Dissolved	Water	6020A	558553
MB 480-558553/1-A	Method Blank	Total/NA	Water	6020A	558553
LCS 480-558553/2-A	Lab Control Sample	Total/NA	Water	6020A	558553
480-177359-24 MS	EW-B5_20201028	Dissolved	Water	6020A	558553
480-177359-24 MSD	EW-B5_20201028	Dissolved	Water	6020A	558553

General Chemistry

Prep Batch: 557495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-4	AW-B18_20201026	Total/NA	Water	9012B	
480-177359-5	DUP_20201026	Total/NA	Water	9012B	
480-177359-30	EB_20201026	Total/NA	Water	9012B	
MB 480-557495/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-557495/3-A	Lab Control Sample	Total/NA	Water	9012B	

Prep Batch: 557496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-6	MW-31_20201027	Total/NA	Water	9012B	
480-177359-7	AW-B4_20201027	Total/NA	Water	9012B	
480-177359-12	AW-A11_20201027	Total/NA	Water	9012B	
480-177359-13	AW-A14_20201027	Total/NA	Water	9012B	
480-177359-21	MW-26_20201027	Total/NA	Water	9012B	
MB 480-557496/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-557496/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-177359-21 MS	MW-26_20201027	Total/NA	Water	9012B	

Analysis Batch: 557603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-4	AW-B18_20201026	Total/NA	Water	9012B	557495
480-177359-5	DUP_20201026	Total/NA	Water	9012B	557495
480-177359-30	EB_20201026	Total/NA	Water	9012B	557495

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

General Chemistry (Continued)

Analysis Batch: 557603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-557495/1-A	Method Blank	Total/NA	Water	9012B	557495
LCS 480-557495/3-A	Lab Control Sample	Total/NA	Water	9012B	557495

Analysis Batch: 557638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-6	MW-31_20201027	Total/NA	Water	9012B	557496
480-177359-7	AW-B4_20201027	Total/NA	Water	9012B	557496
480-177359-12	AW-A11_20201027	Total/NA	Water	9012B	557496
480-177359-13	AW-A14_20201027	Total/NA	Water	9012B	557496
480-177359-21	MW-26_20201027	Total/NA	Water	9012B	557496
MB 480-557496/1-A	Method Blank	Total/NA	Water	9012B	557496
LCS 480-557496/2-A	Lab Control Sample	Total/NA	Water	9012B	557496
480-177359-21 MS	MW-26_20201027	Total/NA	Water	9012B	557496

Prep Batch: 557685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-1	IP-4_20201026	Total/NA	Water	9012B	
480-177359-2	MW-OB25_20201028	Total/NA	Water	9012B	
480-177359-17	MW-OB31_20201028	Total/NA	Water	9012B	
480-177359-18	MW-OB32_20201028	Total/NA	Water	9012B	
480-177359-19	MW-OB33_20201028	Total/NA	Water	9012B	
480-177359-20	MW-OB34_20201028	Total/NA	Water	9012B	
480-177359-23	MW-25S_20201028	Total/NA	Water	9012B	
480-177359-24	EW-B5_20201028	Total/NA	Water	9012B	
480-177359-26	SUMP-A_20201028	Total/NA	Water	9012B	
480-177359-27	SUMP-B_20201028	Total/NA	Water	9012B	
480-177359-31	EB_20201027	Total/NA	Water	9012B	
480-177359-32	EB_20201028	Total/NA	Water	9012B	
MB 480-557685/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-557685/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-557685/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-177359-4 MS	AW-B18_20201026	Total/NA	Water	9012B	
480-177359-4 MSD	AW-B18_20201026	Total/NA	Water	9012B	

Analysis Batch: 557706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-8	SW-1_20201029	Dissolved	Water	SM 2540C	
480-177359-9	SW-2_20201029	Dissolved	Water	SM 2540C	
480-177359-10	SW-3_20201029	Dissolved	Water	SM 2540C	
480-177359-11	SW-4_20201029	Dissolved	Water	SM 2540C	
480-177359-15	DUP_20201029	Dissolved	Water	SM 2540C	
480-177359-33	EB_20201029	Dissolved	Water	SM 2540C	
MB 480-557706/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-557706/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-177359-8 DU	SW-1_20201029	Dissolved	Water	SM 2540C	

Prep Batch: 557716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-14	AW-C11_20201027	Total/NA	Water	9012B	
MB 480-557716/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-557716/2-A	Lab Control Sample	Total/NA	Water	9012B	

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

General Chemistry (Continued)

Prep Batch: 557716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-14 MS	AW-C11_20201027	Total/NA	Water	9012B	
480-177359-14 MSD	AW-C11_20201027	Total/NA	Water	9012B	

Analysis Batch: 557820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-1	IP-4_20201026	Total/NA	Water	9012B	557685
480-177359-2	MW-OB25_20201028	Total/NA	Water	9012B	557685
480-177359-17	MW-OB31_20201028	Total/NA	Water	9012B	557685
480-177359-18	MW-OB32_20201028	Total/NA	Water	9012B	557685
480-177359-19	MW-OB33_20201028	Total/NA	Water	9012B	557685
480-177359-20	MW-OB34_20201028	Total/NA	Water	9012B	557685
480-177359-23	MW-25S_20201028	Total/NA	Water	9012B	557685
480-177359-24	EW-B5_20201028	Total/NA	Water	9012B	557685
480-177359-26	SUMP-A_20201028	Total/NA	Water	9012B	557685
480-177359-27	SUMP-B_20201028	Total/NA	Water	9012B	557685
480-177359-31	EB_20201027	Total/NA	Water	9012B	557685
480-177359-32	EB_20201028	Total/NA	Water	9012B	557685
MB 480-557685/1-A	Method Blank	Total/NA	Water	9012B	557685
LCS 480-557685/2-A	Lab Control Sample	Total/NA	Water	9012B	557685
LCS 480-557685/3-A	Lab Control Sample	Total/NA	Water	9012B	557685
480-177359-4 MS	AW-B18_20201026	Total/NA	Water	9012B	557685
480-177359-4 MSD	AW-B18_20201026	Total/NA	Water	9012B	557685

Analysis Batch: 557902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-14	AW-C11_20201027	Total/NA	Water	9012B	557716
MB 480-557716/1-A	Method Blank	Total/NA	Water	9012B	557716
LCS 480-557716/2-A	Lab Control Sample	Total/NA	Water	9012B	557716
480-177359-14 MS	AW-C11_20201027	Total/NA	Water	9012B	557716
480-177359-14 MSD	AW-C11_20201027	Total/NA	Water	9012B	557716

Prep Batch: 557927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-3	MW-OB14_20201029	Total/NA	Water	9012B	
480-177359-15	DUP_20201029	Total/NA	Water	9012B	
480-177359-16	MW-OB30_20201029	Total/NA	Water	9012B	
480-177359-33	EB_20201029	Total/NA	Water	9012B	
480-177359-34	EB_20201030	Total/NA	Water	9012B	
MB 480-557927/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-557927/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 557982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-3	MW-OB14_20201029	Total/NA	Water	9012B	557927
480-177359-15	DUP_20201029	Total/NA	Water	9012B	557927
480-177359-16	MW-OB30_20201029	Total/NA	Water	9012B	557927
480-177359-33	EB_20201029	Total/NA	Water	9012B	557927
480-177359-34	EB_20201030	Total/NA	Water	9012B	557927
MB 480-557927/1-A	Method Blank	Total/NA	Water	9012B	557927
LCS 480-557927/2-A	Lab Control Sample	Total/NA	Water	9012B	557927

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

General Chemistry

Analysis Batch: 558201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-8	SW-1_20201029	Total/NA	Water	SM 2340C	
480-177359-9	SW-2_20201029	Total/NA	Water	SM 2340C	
480-177359-10	SW-3_20201029	Total/NA	Water	SM 2340C	
480-177359-11	SW-4_20201029	Total/NA	Water	SM 2340C	
480-177359-15	DUP_20201029	Total/NA	Water	SM 2340C	
480-177359-33	EB_20201029	Total/NA	Water	SM 2340C	
MB 480-558201/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-558201/4	Lab Control Sample	Total/NA	Water	SM 2340C	
480-177359-10 MS	SW-3_20201029	Total/NA	Water	SM 2340C	
480-177359-10 MSD	SW-3_20201029	Total/NA	Water	SM 2340C	

Prep Batch: 558218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-22	AW-C2_20201027	Total/NA	Water	9012B	
480-177359-25	DUP-02_20201028	Total/NA	Water	9012B	
MB 480-558218/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-558218/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 558340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-22	AW-C2_20201027	Total/NA	Water	9012B	558218
480-177359-25	DUP-02_20201028	Total/NA	Water	9012B	558218
MB 480-558218/1-A	Method Blank	Total/NA	Water	9012B	558218
LCS 480-558218/2-A	Lab Control Sample	Total/NA	Water	9012B	558218

Prep Batch: 558664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-29	MW-OB26_20201030	Total/NA	Water	9012B	
MB 480-558664/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-558664/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-558664/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 558787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177359-29	MW-OB26_20201030	Total/NA	Water	9012B	558664
MB 480-558664/1-A	Method Blank	Total/NA	Water	9012B	558664
LCS 480-558664/2-A	Lab Control Sample	Total/NA	Water	9012B	558664
LCS 480-558664/3-A	Lab Control Sample	Total/NA	Water	9012B	558664

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: IP-4_20201026

Lab Sample ID: 480-177359-1

Date Collected: 10/26/20 17:37

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 12:38	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		5	557820	11/06/20 10:28	CRK	TAL BUF

Client Sample ID: MW-OB25_20201028

Lab Sample ID: 480-177359-2

Date Collected: 10/28/20 15:49

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		5	558618	11/11/20 15:43	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:30	CRK	TAL BUF

Client Sample ID: MW-OB14_20201029

Lab Sample ID: 480-177359-3

Date Collected: 10/29/20 13:18

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		10	558618	11/11/20 15:45	KMP	TAL BUF
Total/NA	Prep	9012B			557927	11/06/20 21:24	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557982	11/07/20 15:29	CRK	TAL BUF

Client Sample ID: AW-B18_20201026

Lab Sample ID: 480-177359-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	556949	11/02/20 15:19	CRL	TAL BUF
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 12:45	KMP	TAL BUF
Total/NA	Prep	9012B			557495	11/04/20 23:04	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557603	11/05/20 11:23	CRK	TAL BUF

Client Sample ID: DUP_20201026

Lab Sample ID: 480-177359-5

Date Collected: 10/26/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	556949	11/02/20 15:44	CRL	TAL BUF
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:03	KMP	TAL BUF
Total/NA	Prep	9012B			557495	11/04/20 23:04	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557603	11/05/20 11:37	CRK	TAL BUF

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Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-31_20201027

Lab Sample ID: 480-177359-6

Date Collected: 10/27/20 10:04

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:05	KMP	TAL BUF
Total/NA	Prep	9012B			557496	11/04/20 23:09	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557638	11/05/20 13:31	CRK	TAL BUF

Client Sample ID: AW-B4_20201027

Lab Sample ID: 480-177359-7

Date Collected: 10/27/20 12:55

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:07	KMP	TAL BUF
Total/NA	Prep	9012B			557496	11/04/20 23:09	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557638	11/05/20 13:33	CRK	TAL BUF

Client Sample ID: SW-1_20201029

Lab Sample ID: 480-177359-8

Date Collected: 10/29/20 09:05

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:10	KMP	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Client Sample ID: SW-2_20201029

Lab Sample ID: 480-177359-9

Date Collected: 10/29/20 10:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:12	KMP	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Client Sample ID: SW-3_20201029

Lab Sample ID: 480-177359-10

Date Collected: 10/29/20 11:05

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:14	KMP	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177359-11

Date Collected: 10/29/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:21	KMP	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Client Sample ID: AW-A11_20201027

Lab Sample ID: 480-177359-12

Date Collected: 10/27/20 16:54

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558304	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558594	11/11/20 13:30	KMP	TAL BUF
Total/NA	Prep	9012B			557496	11/04/20 23:09	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557638	11/05/20 13:34	CRK	TAL BUF

Client Sample ID: AW-A14_20201027

Lab Sample ID: 480-177359-13

Date Collected: 10/27/20 15:10

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 11:22	KMP	TAL BUF
Total/NA	Prep	9012B			557496	11/04/20 23:09	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557638	11/05/20 13:35	CRK	TAL BUF

Client Sample ID: AW-C11_20201027

Lab Sample ID: 480-177359-14

Date Collected: 10/27/20 12:40

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		5	558602	11/11/20 13:42	KMP	TAL BUF
Total/NA	Prep	9012B			557716	11/05/20 22:40	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557902	11/06/20 16:41	CRK	TAL BUF

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177359-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 11:43	KMP	TAL BUF
Total/NA	Prep	9012B			557927	11/06/20 21:24	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557982	11/07/20 15:30	CRK	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF

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Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177359-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177359-16

Date Collected: 10/29/20 09:30

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 11:45	KMP	TAL BUF
Total/NA	Prep	9012B			557927	11/06/20 21:24	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557982	11/07/20 15:34	CRK	TAL BUF

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177359-17

Date Collected: 10/28/20 10:15

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 11:47	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:34	CRK	TAL BUF

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177359-18

Date Collected: 10/28/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 11:50	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		20	557820	11/06/20 10:54	CRK	TAL BUF

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177359-19

Date Collected: 10/28/20 14:27

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		5	558618	11/11/20 15:41	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:37	CRK	TAL BUF

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177359-20

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:01	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:38	CRK	TAL BUF

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177359-21

Date Collected: 10/27/20 14:46

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:03	KMP	TAL BUF
Total/NA	Prep	9012B			557496	11/04/20 23:09	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557638	11/05/20 13:40	CRK	TAL BUF

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177359-22

Date Collected: 10/27/20 15:32

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:06	KMP	TAL BUF
Total/NA	Prep	9012B			558218	11/09/20 20:14	ALT	TAL BUF
Total/NA	Analysis	9012B		1	558340	11/10/20 11:43	CRK	TAL BUF

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177359-23

Date Collected: 10/28/20 09:40

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:08	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:40	CRK	TAL BUF

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177359-24

Date Collected: 10/28/20 11:14

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558553	11/11/20 12:00	ADM	TAL BUF
Dissolved	Analysis	6020A		500	558652	11/11/20 19:00	AMH	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:41	CRK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177359-25

Date Collected: 10/28/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558553	11/11/20 12:00	ADM	TAL BUF
Dissolved	Analysis	6020A		500	558652	11/11/20 19:19	AMH	TAL BUF
Total/NA	Prep	9012B			558218	11/09/20 20:14	ALT	TAL BUF
Total/NA	Analysis	9012B		1	558340	11/10/20 11:45	CRK	TAL BUF

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177359-26

Date Collected: 10/28/20 14:25

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:10	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:43	CRK	TAL BUF

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177359-27

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:13	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:44	CRK	TAL BUF

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177359-28

Date Collected: 10/29/20 11:20

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:15	KMP	TAL BUF

Client Sample ID: MW-OB26_20201030

Lab Sample ID: 480-177359-29

Date Collected: 10/30/20 11:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			558664	11/11/20 22:58	ALT	TAL BUF
Total/NA	Analysis	9012B		1	558787	11/12/20 12:58	CRK	TAL BUF

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: EB_20201026

Lab Sample ID: 480-177359-30

Date Collected: 10/26/20 18:30

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	556949	11/02/20 16:08	CRL	TAL BUF
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:17	KMP	TAL BUF
Total/NA	Prep	9012B			557495	11/04/20 23:04	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557603	11/05/20 11:39	CRK	TAL BUF

Client Sample ID: EB_20201027

Lab Sample ID: 480-177359-31

Date Collected: 10/27/20 16:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:19	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:45	CRK	TAL BUF

Client Sample ID: EB_20201028

Lab Sample ID: 480-177359-32

Date Collected: 10/28/20 16:15

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:22	KMP	TAL BUF
Total/NA	Prep	9012B			557685	11/05/20 17:33	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557820	11/06/20 10:47	CRK	TAL BUF

Client Sample ID: EB_20201029

Lab Sample ID: 480-177359-33

Date Collected: 10/29/20 14:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3020A			558307	11/10/20 14:39	ADM	TAL BUF
Dissolved	Analysis	6020A		1	558581	11/11/20 12:31	KMP	TAL BUF
Total/NA	Prep	9012B			557927	11/06/20 21:24	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557982	11/07/20 15:36	CRK	TAL BUF
Total/NA	Analysis	SM 2340C		1	558201	11/09/20 14:04	MJB	TAL BUF
Dissolved	Analysis	SM 2540C		1	557706	11/05/20 20:19	T1S	TAL BUF

Client Sample ID: EB_20201030

Lab Sample ID: 480-177359-34

Date Collected: 10/30/20 11:30

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			557927	11/06/20 21:24	ALT	TAL BUF
Total/NA	Analysis	9012B		1	557982	11/07/20 15:37	CRK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Client Sample ID: TRIP BLANKS
Date Collected: 10/26/20 00:00
Date Received: 10/31/20 08:00

Lab Sample ID: 480-177359-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	556949	11/02/20 16:34	CRL	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2340C		Water	Hardness as calcium carbonate

Method Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaCO ₃)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177359-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177359-1	IP-4_20201026	Water	10/26/20 17:37	10/31/20 08:00	
480-177359-2	MW-OB25_20201028	Water	10/28/20 15:49	10/31/20 08:00	
480-177359-3	MW-OB14_20201029	Water	10/29/20 13:18	10/31/20 08:00	
480-177359-4	AW-B18_20201026	Water	10/26/20 16:52	10/31/20 08:00	
480-177359-5	DUP_20201026	Water	10/26/20 00:00	10/31/20 08:00	
480-177359-6	MW-31_20201027	Water	10/27/20 10:04	10/31/20 08:00	
480-177359-7	AW-B4_20201027	Water	10/27/20 12:55	10/31/20 08:00	
480-177359-8	SW-1_20201029	Water	10/29/20 09:05	10/31/20 08:00	
480-177359-9	SW-2_20201029	Water	10/29/20 10:00	10/31/20 08:00	
480-177359-10	SW-3_20201029	Water	10/29/20 11:05	10/31/20 08:00	
480-177359-11	SW-4_20201029	Water	10/29/20 12:45	10/31/20 08:00	
480-177359-12	AW-A11_20201027	Water	10/27/20 16:54	10/31/20 08:00	
480-177359-13	AW-A14_20201027	Water	10/27/20 15:10	10/31/20 08:00	
480-177359-14	AW-C11_20201027	Water	10/27/20 12:40	10/31/20 08:00	
480-177359-15	DUP_20201029	Water	10/29/20 00:00	10/31/20 08:00	
480-177359-16	MW-OB30_20201029	Water	10/29/20 09:30	10/31/20 08:00	
480-177359-17	MW-OB31_20201028	Water	10/28/20 10:15	10/31/20 08:00	
480-177359-18	MW-OB32_20201028	Water	10/28/20 12:45	10/31/20 08:00	
480-177359-19	MW-OB33_20201028	Water	10/28/20 14:27	10/31/20 08:00	
480-177359-20	MW-OB34_20201028	Water	10/28/20 14:55	10/31/20 08:00	
480-177359-21	MW-26_20201027	Water	10/27/20 14:46	10/31/20 08:00	
480-177359-22	AW-C2_20201027	Water	10/27/20 15:32	10/31/20 08:00	
480-177359-23	MW-25S_20201028	Water	10/28/20 09:40	10/31/20 08:00	
480-177359-24	EW-B5_20201028	Water	10/28/20 11:14	10/31/20 08:00	
480-177359-25	DUP-02_20201028	Water	10/28/20 00:00	10/31/20 08:00	
480-177359-26	SUMP-A_20201028	Water	10/28/20 14:25	10/31/20 08:00	
480-177359-27	SUMP-B_20201028	Water	10/28/20 14:55	10/31/20 08:00	
480-177359-28	MW-OB26_20201029	Water	10/29/20 11:20	10/31/20 08:00	
480-177359-29	MW-OB26_20201030	Water	10/30/20 11:00	10/31/20 08:00	
480-177359-30	EB_20201026	Water	10/26/20 18:30	10/31/20 08:00	
480-177359-31	EB_20201027	Water	10/27/20 16:45	10/31/20 08:00	
480-177359-32	EB_20201028	Water	10/28/20 16:15	10/31/20 08:00	
480-177359-33	EB_20201029	Water	10/29/20 14:00	10/31/20 08:00	
480-177359-34	EB_20201030	Water	10/30/20 11:30	10/31/20 08:00	
480-177359-35	TRIP BLANKS	Water	10/26/20 00:00	10/31/20 08:00	

11/16/2020

Albany

#224

Analysis Requested

Page 2 of 34

COG No: 680-76228-31646.1

Client Information		Sampler: <i>Carroll Rowe</i>	Lab PM: <i>Barnett, Eddie T</i>	Carrier Tracking No(s):
Client Contact: <i>Mr. Jim Vondracek</i>		Phone: <i>860 992 2656</i>	E-Mail: <i>eddie.barnett@iesiamerica.com</i>	
Company: <i>Ashland Inc</i>		Job #:		
Address: <i>5200 Blazer Parkway DS-4</i>		Due Date Requested:		
City: <i>Dublin</i>		TAT Requested (days):		
State, Zip: <i>OH, 43017</i>		Standard		
Phone: <i>614-790-6146</i>		PO #:		
Email: <i>lvondracek@ashland.com, cassie.reuter@ehs.support.com</i>		WO #:		
Project Name: <i>Hercules Glens Falls Quarterly Event</i>		Project #:		
Site: <i>Ashland Glens Falls</i>		SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (We-water, Soil, Oil, Grease, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide, Total	7196A - Chromium, hexavalent (field filtered)	6020A - Dissolved Total Chromium and Vanadium (field filtered)	2540C - Calcd - Total Dissolved Solids (field filtered)	2340C - Hardness as calcium carbonate	8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes (1,2-, 1,3-, 1,4-))	Dissolved vanadium 6020A filtered	Total Number of containers	Special Instructions/Note:
AW-A11-20261627	10/27/20	1654	6	Water	X	X	X	X	X	X	X	X	X	2	
AW-A14-20201627	10/27/20	1410	6	Water	X	X	X	X	X	X	X	X	X	2	
AW-A11-20201627	10/27/20	1248	6	Water	X	X	X	X	X	X	X	X	X	4	MS/MSD
DUF-02-20201028 DUF-20201029	10/28/20	0938	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0836-20201028	10/28/20	1615	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0831-20201028	10/28/20	1615	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0832-20201028	10/28/20	1245	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0833-20201028	10/28/20	1427	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0834-20201028	10/28/20	1455	6	Water	X	X	X	X	X	X	X	X	X	2	
MW-0835-20201028	10/27/20	1446	6	Water	X	X	X	X	X	X	X	X	X	2	
AW-C2-20201027	10/27/20	1532	6	Water	X	X	X	X	X	X	X	X	X	2	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client	☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: _____ Date: _____		Method of Shipment: _____	
Relinquished by: <i>WHL</i>	Date/Time: <i>10/26/20 1445</i>	Received by: <i>Yad Zohar</i>	Date/Time: <i>10/30/20 1445</i>
Relinquished by: <i>Karl Fackel</i>	Date/Time: <i>10/30/20 1700</i>	Received by: <i>Ag 1</i>	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____
Custody Seals Intact: _____ Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: <i>3.5 4.2</i>	

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Albany Chain of Custody Record

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

#2224
J. Barnett

COC No:
680-76228-31646.1

Client Information		Lab P/N: Barnett, Eddie T		Carrier Tracking No(s):	
Client Contact: Mr. Jim Vondracek		E-Mail: eddie.barnett@testamerica.com		Page: 5 of 24	
Company: Ashland Inc				Job #:	
Address: 5200 Blazer Parkway DS-4		Due Date Requested:			
City: Dublin		TAT Requested (days): Standard			
State, Zip: OH, 43017					
Phone: 614-790-6146		PO #: 4502471936			
Email: jvondracek@ashland.com, cassie.reuter@ehs.support.com		WO #:			
Project Name: Hercules Glens Falls Quarterly Event		Project #: 68000956			
Site: Ashland Glens Falls		SSOW#:			

Ashland Inc					Analysis Requested					Job #:	
Address: 5200 Blazer Parkway DS-4					Due Date Requested:					Preservation Codes:	
City: Dublin					TAT Requested (days): Standard					A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: OH, 43017										M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylsrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 614-790-6146					PO #:						
Email: lewondtrack@ashland.com, cassie.reuter@ehs.support.com					4502471936						
Project Name: Hercules Glens Falls Quarterly Event					WO #:						
Site: Ashland Glens Falls					Project #:						
					68000956						
					SSOW#:						
Sample Identification					Sample Date					Sample Time	
										Sample Type (C=Comp, G=Grab)	
										Matrix (W=Water, S=solid, O=waterfall, BT=Tissue, A=Air)	
					Preservation Code:						
					Field Filtered Sample (Yes or No)						
					Perform MS/MSD (Yes or No)						
					9012B - Cyanide, Total						
					7196A - Chromium, hexavalent (field filtered)						
					6020A - Dissolved Total Chromium and Vanadium (field filtered)						
					2540C_Calcd - Total Dissolved Solids (field filtered)						
					2340C - Hardness as calcium carbonate						
					8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes [1,2-, 1,3-, 1,4-])						
					Dissolved vanadium 6020A filter						

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client	☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by:	Date/Time: 10/30/20 1445	Company: Ashland	Received by: Karl Zacher
Relinquished by: Karl Zacher	Date/Time: 10/30/20 1700	Company: Ashland	Received by: PS1
Custody Seals Intact:		Cooler Temperature(s) °C and Other Remarks:	

Client Information		Sampler: <u>Curt H Love</u>		Lab P/N:	
Client Contact: Mr. Jim Vondracek Company: Ashland Inc		Phone: <u>520 992-2236</u> E-Mail: <u>eddie.barnett@testamericainc.com</u>		Barnett, Eddie T	
Address: 5200 Blazer Parkway DS-4 City: Dublin State: OH, Zip: 43017 Phone: 614-790-6146 Email: <u>jvondracek@ashland.com, cassie.reuter@ehs.support.com</u> Project Name: Hercules Glens Falls Quarterly Event Site: Ashland Glens Falls		Due Date Requested: TAT Requested (days): Standard PO #: 4502471936 WQ #: Project #: 68000956 SSOW#:		Carrier Tracking No(s):	
		Analysis Requested		COC No: 680-76228-31646.1	
				Page: 4 of 4	
				Job #:	
				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascobic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Sample Identification		Sample Date		Sample Type (C=Comp, G=grab)	
EB 20201030 1HT BLANKS		10/30/20 1536 10/26/20 6		Matrix: (Water, Solid, Over-satd., etc.) Preservation Code: X B N D C L A	
				Field Filtered Sample (Yes or No) X Perform MS/MSD (Yes or No) X 9012B - Cyanide, Total 7196A - Chromium, hexavalent (field filtered) 6020A - Dissolved Total Chromium and Vanadium (field filtered) 2540C - Calcd - Total Dissolved Solids (field filtered) 2340C - Hardness as calcium carbonate 8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes (1,2-, 1,3-, 1,4-)) Total Number of containers: 4	
				Special Instructions/Note: <u>Just total Cyanide</u>	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <u>[Signature]</u>		Date Time: <u>10/30/20 1445</u>		Company: <u>Ashland</u>	
Relinquished by: <u>Karl Jacobs</u>		Date Time: <u>10/30/20 1700</u>		Company: <u>Dugels</u>	
Relinquished by: <u>[Signature]</u>		Date Time: <u>10/30/20 1700</u>		Company: <u>Dugels</u>	
Custody Seals Intact: ☒		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 480-177359-1

Login Number: 177359

List Source: Eurofins TestAmerica, Buffalo

List Number: 2

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-177390-1

Client Project/Site: Hercules Glens Falls 4Q20

For:

Ashland LLC
5200 Blazer Parkway
DS-4
Dublin, Ohio 43017

Attn: Mr. Jim Vondracek



Authorized for release by:
11/11/2020 6:52:48 AM

Eddie Barnett, Project Manager I
(912)250-0280
Eddie.Barnett@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Job ID: 480-177390-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

CASE NARRATIVE **Client: Ashland LLC** **Project: Hercules Glens Falls 4Q20**

Report Number: 480-177390-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/31/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

HEXAVALENT CHROMIUM

Samples IP-4_20201026 (480-177390-1), MW-OB25_20201028 (480-177390-2), MW-OB14_20201029 (480-177390-3), AW-B18_20201026 (480-177390-4), DUP_20201026 (480-177390-5), MW-31_20201027 (480-177390-6), AW-B4_20201027 (480-177390-7), SW-1_20201029 (480-177390-8), SW-2_20201029 (480-177390-9), SW-3_20201029 (480-177390-10), SW-4_20201029 (480-177390-11), AW-A11_20201027 (480-177390-12), AW-A14_20201027 (480-177390-13), AW-C11_20201027 (480-177390-14), DUP_20201029 (480-177390-15), MW-OB30_20201029 (480-177390-16), MW-OB31_20201028 (480-177390-17), MW-OB32_20201028 (480-177390-18), MW-OB33_20201028 (480-177390-19), MW-OB34_20201028 (480-177390-20), MW-26_20201027 (480-177390-21), AW-C2_20201027 (480-177390-22), MW-25S_20201028 (480-177390-23), EW-B5_20201028 (480-177390-24), DUP-02_20201028 (480-177390-25), SUMP-A_20201028 (480-177390-26), SUMP-B_20201028 (480-177390-27), MW-OB26_20201029 (480-177390-28), EB_20201026 (480-177390-29), EB_20201027 (480-177390-30), EB_20201028 (480-177390-31) and EB_20201029 (480-177390-32) were analyzed for Hexavalent Chromium in accordance with EPA Method 218.6. The samples were analyzed on 11/03/2020, 11/04/2020, 11/05/2020, 11/06/2020 and 11/07/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: IP-4_20201026

Lab Sample ID: 480-177390-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.00029	J	0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: MW-OB25_20201028

Lab Sample ID: 480-177390-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	2.4		0.015	0.012	mg/L	50		218.6	Dissolved

Client Sample ID: MW-OB14_20201029

Lab Sample ID: 480-177390-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	5.0		0.060	0.046	mg/L	200		218.6	Dissolved

Client Sample ID: AW-B18_20201026

Lab Sample ID: 480-177390-4

No Detections.

Client Sample ID: DUP_20201026

Lab Sample ID: 480-177390-5

No Detections.

Client Sample ID: MW-31_20201027

Lab Sample ID: 480-177390-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.00039		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: AW-B4_20201027

Lab Sample ID: 480-177390-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.0033		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: SW-1_20201029

Lab Sample ID: 480-177390-8

No Detections.

Client Sample ID: SW-2_20201029

Lab Sample ID: 480-177390-9

No Detections.

Client Sample ID: SW-3_20201029

Lab Sample ID: 480-177390-10

No Detections.

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177390-11

No Detections.

Client Sample ID: AW-A11_20201027

Lab Sample ID: 480-177390-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.038		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: AW-A14_20201027

Lab Sample ID: 480-177390-13

No Detections.

Client Sample ID: AW-C11_20201027

Lab Sample ID: 480-177390-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	1.6		0.015	0.012	mg/L	50		218.6	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177390-15

No Detections.

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177390-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.14		0.0015	0.0012	mg/L	5		218.6	Dissolved

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177390-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.0055		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177390-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.0015		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177390-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.045		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177390-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.00088		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177390-21

No Detections.

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177390-22

No Detections.

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177390-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.0047		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177390-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	42		0.60	0.46	mg/L	2000		218.6	Dissolved

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177390-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	41		0.60	0.46	mg/L	2000		218.6	Dissolved

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177390-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.20		0.0015	0.0012	mg/L	5		218.6	Dissolved

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177390-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.096		0.00060	0.00046	mg/L	2		218.6	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177390-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	0.012		0.00030	0.00023	mg/L	1		218.6	Dissolved

Client Sample ID: EB_20201026

Lab Sample ID: 480-177390-29

No Detections.

Client Sample ID: EB_20201027

Lab Sample ID: 480-177390-30

No Detections.

Client Sample ID: EB_20201028

Lab Sample ID: 480-177390-31

No Detections.

Client Sample ID: EB_20201029

Lab Sample ID: 480-177390-32

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: IP-4_20201026

Date Collected: 10/26/20 17:37

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-1

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00029	J	0.00030	0.00023	mg/L			11/04/20 01:13	1

Client Sample ID: MW-OB25_20201028

Date Collected: 10/28/20 15:49

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-2

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	2.4		0.015	0.012	mg/L			11/04/20 01:26	50

Client Sample ID: MW-OB14_20201029

Date Collected: 10/29/20 13:18

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-3

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	5.0		0.060	0.046	mg/L			11/04/20 01:39	200

Client Sample ID: AW-B18_20201026

Date Collected: 10/26/20 16:52

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-4

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/04/20 01:51	1

Client Sample ID: DUP_20201026

Date Collected: 10/26/20 00:00

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-5

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/04/20 02:30	1

Client Sample ID: MW-31_20201027

Date Collected: 10/27/20 10:04

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-6

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00039		0.00030	0.00023	mg/L			11/03/20 22:25	1

Client Sample ID: AW-B4_20201027

Date Collected: 10/27/20 12:55

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-7

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.0033		0.00030	0.00023	mg/L			11/03/20 22:38	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: SW-1_20201029

Date Collected: 10/29/20 09:05

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-8

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/04/20 02:43	1

Client Sample ID: SW-2_20201029

Date Collected: 10/29/20 10:00

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-9

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 20:30	1

Client Sample ID: SW-3_20201029

Date Collected: 10/29/20 11:05

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-10

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 20:43	1

Client Sample ID: SW-4_20201029

Date Collected: 10/29/20 12:45

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-11

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 21:21	1

Client Sample ID: AW-A11_20201027

Date Collected: 10/27/20 16:54

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-12

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.038		0.00030	0.00023	mg/L			11/03/20 23:29	1

Client Sample ID: AW-A14_20201027

Date Collected: 10/27/20 15:10

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-13

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 21:34	1

Client Sample ID: AW-C11_20201027

Date Collected: 10/27/20 12:40

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-14

Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	1.6		0.015	0.012	mg/L			11/07/20 20:10	50

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177390-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 21:47	1

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177390-16

Date Collected: 10/29/20 09:30

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.14		0.0015	0.0012	mg/L			11/07/20 20:49	5

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177390-17

Date Collected: 10/28/20 10:15

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.0055		0.00030	0.00023	mg/L			11/05/20 22:39	1

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177390-18

Date Collected: 10/28/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.0015		0.00030	0.00023	mg/L			11/05/20 22:52	1

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177390-19

Date Collected: 10/28/20 14:27

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.045		0.00030	0.00023	mg/L			11/05/20 23:05	1

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177390-20

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00088		0.00030	0.00023	mg/L			11/05/20 23:18	1

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177390-21

Date Collected: 10/27/20 14:46

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 23:31	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177390-22

Date Collected: 10/27/20 15:32

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 23:44	1

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177390-23

Date Collected: 10/28/20 09:40

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.0047		0.00030	0.00023	mg/L			11/05/20 23:57	1

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177390-24

Date Collected: 10/28/20 11:14

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	42		0.60	0.46	mg/L			11/06/20 00:09	2000

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177390-25

Date Collected: 10/28/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	41		0.60	0.46	mg/L			11/06/20 00:22	2000

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177390-26

Date Collected: 10/28/20 14:23

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.20		0.0015	0.0012	mg/L			11/07/20 21:02	5

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177390-27

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.096		0.00060	0.00046	mg/L			11/07/20 21:15	2

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177390-28

Date Collected: 10/29/20 11:20

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.012		0.00030	0.00023	mg/L			11/06/20 01:27	1

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: EB_20201026

Lab Sample ID: 480-177390-29

Date Collected: 10/26/20 18:30

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/06/20 01:40	1

Client Sample ID: EB_20201027

Lab Sample ID: 480-177390-30

Date Collected: 10/27/20 16:45

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/06/20 01:53	1

Client Sample ID: EB_20201028

Lab Sample ID: 480-177390-31

Date Collected: 10/28/20 16:15

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/07/20 21:27	1

Client Sample ID: EB_20201029

Lab Sample ID: 480-177390-32

Date Collected: 10/29/20 14:00

Matrix: Water

Date Received: 10/31/20 08:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/07/20 21:40	1

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: MB 500-570090/3

Matrix: Water

Analysis Batch: 570090

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/03/20 19:32	1

Lab Sample ID: LCS 500-570090/4

Matrix: Water

Analysis Batch: 570090

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0250	0.0247		mg/L		99	90 - 110

Lab Sample ID: MB 500-570481/3

Matrix: Water

Analysis Batch: 570481

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/05/20 19:57	1

Lab Sample ID: LCS 500-570481/4

Matrix: Water

Analysis Batch: 570481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0250	0.0241		mg/L		96	90 - 110

Lab Sample ID: MB 500-570835/3

Matrix: Water

Analysis Batch: 570835

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.00030	U	0.00030	0.00023	mg/L			11/07/20 19:44	1

Lab Sample ID: LCS 500-570835/4

Matrix: Water

Analysis Batch: 570835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0250	0.0245		mg/L		98	90 - 110

Lab Sample ID: 480-177390-4 MS

Matrix: Water

Analysis Batch: 570090

Client Sample ID: AW-B18_20201026

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.00030	U	0.0250	0.0251		mg/L		100	90 - 110

Lab Sample ID: 480-177390-4 MSD

Matrix: Water

Analysis Batch: 570090

Client Sample ID: AW-B18_20201026

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.00030	U	0.0250	0.0256		mg/L		103	90 - 110	2	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: 480-177390-10 MS

Matrix: Water

Analysis Batch: 570481

Client Sample ID: SW-3_20201029

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	0.00030	U	0.0250	0.0232		mg/L		93	90 - 110		

Lab Sample ID: 480-177390-10 MSD

Matrix: Water

Analysis Batch: 570481

Client Sample ID: SW-3_20201029

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.00030	U	0.0250	0.0237		mg/L		95	90 - 110	2	20

Lab Sample ID: 480-177390-14 MS

Matrix: Water

Analysis Batch: 570835

Client Sample ID: AW-C11_20201027

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	1.6		1.25	2.80	E	mg/L		98	90 - 110		

Lab Sample ID: 480-177390-14 MSD

Matrix: Water

Analysis Batch: 570835

Client Sample ID: AW-C11_20201027

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	1.6		1.25	2.76	E	mg/L		95	90 - 110	1	20

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

General Chemistry

Analysis Batch: 570090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177390-1	IP-4_20201026	Dissolved	Water	218.6	
480-177390-2	MW-OB25_20201028	Dissolved	Water	218.6	
480-177390-3	MW-OB14_20201029	Dissolved	Water	218.6	
480-177390-4	AW-B18_20201026	Dissolved	Water	218.6	
480-177390-5	DUP_20201026	Dissolved	Water	218.6	
480-177390-6	MW-31_20201027	Dissolved	Water	218.6	
480-177390-7	AW-B4_20201027	Dissolved	Water	218.6	
480-177390-8	SW-1_20201029	Dissolved	Water	218.6	
480-177390-12	AW-A11_20201027	Dissolved	Water	218.6	
MB 500-570090/3	Method Blank	Total/NA	Water	218.6	
LCS 500-570090/4	Lab Control Sample	Total/NA	Water	218.6	
480-177390-4 MS	AW-B18_20201026	Dissolved	Water	218.6	
480-177390-4 MSD	AW-B18_20201026	Dissolved	Water	218.6	

Analysis Batch: 570481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177390-9	SW-2_20201029	Dissolved	Water	218.6	
480-177390-10	SW-3_20201029	Dissolved	Water	218.6	
480-177390-11	SW-4_20201029	Dissolved	Water	218.6	
480-177390-13	AW-A14_20201027	Dissolved	Water	218.6	
480-177390-15	DUP_20201029	Dissolved	Water	218.6	
480-177390-17	MW-OB31_20201028	Dissolved	Water	218.6	
480-177390-18	MW-OB32_20201028	Dissolved	Water	218.6	
480-177390-19	MW-OB33_20201028	Dissolved	Water	218.6	
480-177390-20	MW-OB34_20201028	Dissolved	Water	218.6	
480-177390-21	MW-26_20201027	Dissolved	Water	218.6	
480-177390-22	AW-C2_20201027	Dissolved	Water	218.6	
480-177390-23	MW-25S_20201028	Dissolved	Water	218.6	
480-177390-24	EW-B5_20201028	Dissolved	Water	218.6	
480-177390-25	DUP-02_20201028	Dissolved	Water	218.6	
480-177390-28	MW-OB26_20201029	Dissolved	Water	218.6	
480-177390-29	EB_20201026	Dissolved	Water	218.6	
480-177390-30	EB_20201027	Dissolved	Water	218.6	
MB 500-570481/3	Method Blank	Total/NA	Water	218.6	
LCS 500-570481/4	Lab Control Sample	Total/NA	Water	218.6	
480-177390-10 MS	SW-3_20201029	Dissolved	Water	218.6	
480-177390-10 MSD	SW-3_20201029	Dissolved	Water	218.6	

Analysis Batch: 570835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177390-14	AW-C11_20201027	Dissolved	Water	218.6	
480-177390-16	MW-OB30_20201029	Dissolved	Water	218.6	
480-177390-26	SUMP-A_20201028	Dissolved	Water	218.6	
480-177390-27	SUMP-B_20201028	Dissolved	Water	218.6	
480-177390-31	EB_20201028	Dissolved	Water	218.6	
480-177390-32	EB_20201029	Dissolved	Water	218.6	
MB 500-570835/3	Method Blank	Total/NA	Water	218.6	
LCS 500-570835/4	Lab Control Sample	Total/NA	Water	218.6	
480-177390-14 MS	AW-C11_20201027	Dissolved	Water	218.6	
480-177390-14 MSD	AW-C11_20201027	Dissolved	Water	218.6	

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: IP-4_20201026

Date Collected: 10/26/20 17:37

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/04/20 01:13	EAT	TAL CHI

Client Sample ID: MW-OB25_20201028

Date Collected: 10/28/20 15:49

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		50	570090	11/04/20 01:26	EAT	TAL CHI

Client Sample ID: MW-OB14_20201029

Date Collected: 10/29/20 13:18

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		200	570090	11/04/20 01:39	EAT	TAL CHI

Client Sample ID: AW-B18_20201026

Date Collected: 10/26/20 16:52

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/04/20 01:51	EAT	TAL CHI

Client Sample ID: DUP_20201026

Date Collected: 10/26/20 00:00

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/04/20 02:30	EAT	TAL CHI

Client Sample ID: MW-31_20201027

Date Collected: 10/27/20 10:04

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/03/20 22:25	EAT	TAL CHI

Client Sample ID: AW-B4_20201027

Date Collected: 10/27/20 12:55

Date Received: 10/31/20 08:00

Lab Sample ID: 480-177390-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/03/20 22:38	EAT	TAL CHI

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Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: SW-1_20201029

Lab Sample ID: 480-177390-8

Date Collected: 10/29/20 09:05

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/04/20 02:43	EAT	TAL CHI

Client Sample ID: SW-2_20201029

Lab Sample ID: 480-177390-9

Date Collected: 10/29/20 10:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 20:30	EAT	TAL CHI

Client Sample ID: SW-3_20201029

Lab Sample ID: 480-177390-10

Date Collected: 10/29/20 11:05

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 20:43	EAT	TAL CHI

Client Sample ID: SW-4_20201029

Lab Sample ID: 480-177390-11

Date Collected: 10/29/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 21:21	EAT	TAL CHI

Client Sample ID: AW-A11_20201027

Lab Sample ID: 480-177390-12

Date Collected: 10/27/20 16:54

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570090	11/03/20 23:29	EAT	TAL CHI

Client Sample ID: AW-A14_20201027

Lab Sample ID: 480-177390-13

Date Collected: 10/27/20 15:10

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 21:34	EAT	TAL CHI

Client Sample ID: AW-C11_20201027

Lab Sample ID: 480-177390-14

Date Collected: 10/27/20 12:40

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		50	570835	11/07/20 20:10	EAT	TAL CHI

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Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: DUP_20201029

Lab Sample ID: 480-177390-15

Date Collected: 10/29/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 21:47	EAT	TAL CHI

Client Sample ID: MW-OB30_20201029

Lab Sample ID: 480-177390-16

Date Collected: 10/29/20 09:30

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		5	570835	11/07/20 20:49	EAT	TAL CHI

Client Sample ID: MW-OB31_20201028

Lab Sample ID: 480-177390-17

Date Collected: 10/28/20 10:15

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 22:39	EAT	TAL CHI

Client Sample ID: MW-OB32_20201028

Lab Sample ID: 480-177390-18

Date Collected: 10/28/20 12:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 22:52	EAT	TAL CHI

Client Sample ID: MW-OB33_20201028

Lab Sample ID: 480-177390-19

Date Collected: 10/28/20 14:27

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 23:05	EAT	TAL CHI

Client Sample ID: MW-OB34_20201028

Lab Sample ID: 480-177390-20

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 23:18	EAT	TAL CHI

Client Sample ID: MW-26_20201027

Lab Sample ID: 480-177390-21

Date Collected: 10/27/20 14:46

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 23:31	EAT	TAL CHI

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: AW-C2_20201027

Lab Sample ID: 480-177390-22

Date Collected: 10/27/20 15:32

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 23:44	EAT	TAL CHI

Client Sample ID: MW-25S_20201028

Lab Sample ID: 480-177390-23

Date Collected: 10/28/20 09:40

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/05/20 23:57	EAT	TAL CHI

Client Sample ID: EW-B5_20201028

Lab Sample ID: 480-177390-24

Date Collected: 10/28/20 11:14

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		2000	570481	11/06/20 00:09	EAT	TAL CHI

Client Sample ID: DUP-02_20201028

Lab Sample ID: 480-177390-25

Date Collected: 10/28/20 00:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		2000	570481	11/06/20 00:22	EAT	TAL CHI

Client Sample ID: SUMP-A_20201028

Lab Sample ID: 480-177390-26

Date Collected: 10/28/20 14:23

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		5	570835	11/07/20 21:02	EAT	TAL CHI

Client Sample ID: SUMP-B_20201028

Lab Sample ID: 480-177390-27

Date Collected: 10/28/20 14:55

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		2	570835	11/07/20 21:15	EAT	TAL CHI

Client Sample ID: MW-OB26_20201029

Lab Sample ID: 480-177390-28

Date Collected: 10/29/20 11:20

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/06/20 01:27	EAT	TAL CHI

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Client Sample ID: EB_20201026

Lab Sample ID: 480-177390-29

Date Collected: 10/26/20 18:30

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/06/20 01:40	EAT	TAL CHI

Client Sample ID: EB_20201027

Lab Sample ID: 480-177390-30

Date Collected: 10/27/20 16:45

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570481	11/06/20 01:53	EAT	TAL CHI

Client Sample ID: EB_20201028

Lab Sample ID: 480-177390-31

Date Collected: 10/28/20 16:15

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570835	11/07/20 21:27	EAT	TAL CHI

Client Sample ID: EB_20201029

Lab Sample ID: 480-177390-32

Date Collected: 10/29/20 14:00

Matrix: Water

Date Received: 10/31/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	218.6		1	570835	11/07/20 21:40	EAT	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Laboratory: Eurofins TestAmerica, Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-30-20 *
Georgia	State	N/A	04-30-20 *
Georgia (DW)	State	939	04-30-21
Hawaii	State	NA	04-30-20 *
Illinois	NELAP	IL00035	04-29-21
Indiana	State	C-IL-02	06-29-21
Iowa	State	082	05-01-20 *
Kentucky (UST)	State	AI # 108083	04-30-20 *
Kentucky (WW)	State	KY90023	12-31-20
Louisiana	NELAP	02046	06-30-21
Mississippi	State	NA	04-30-20 *
New York	NELAP	12019	04-01-21
North Carolina (WW/SW)	State	291	12-31-20
North Dakota	State	R-194	04-29-21
Oklahoma	State	8908	08-31-21
South Carolina	State	77001003	04-29-21
USDA	US Federal Programs	P330-18-00018	02-11-21
Wisconsin	State	999580010	08-31-21
Wyoming	State	8TMS-Q	04-30-20 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Method Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Method	Method Description	Protocol	Laboratory
218.6	Chromium, Hexavalent (Ion Chromatography)	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Glens Falls 4Q20

Job ID: 480-177390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177390-1	IP-4_20201026	Water	10/26/20 17:37	10/31/20 08:00	
480-177390-2	MW-OB25_20201028	Water	10/28/20 15:49	10/31/20 08:00	
480-177390-3	MW-OB14_20201029	Water	10/29/20 13:18	10/31/20 08:00	
480-177390-4	AW-B18_20201026	Water	10/26/20 16:52	10/31/20 08:00	
480-177390-5	DUP_20201026	Water	10/26/20 00:00	10/31/20 08:00	
480-177390-6	MW-31_20201027	Water	10/27/20 10:04	10/31/20 08:00	
480-177390-7	AW-B4_20201027	Water	10/27/20 12:55	10/31/20 08:00	
480-177390-8	SW-1_20201029	Water	10/29/20 09:05	10/31/20 08:00	
480-177390-9	SW-2_20201029	Water	10/29/20 10:00	10/31/20 08:00	
480-177390-10	SW-3_20201029	Water	10/29/20 11:05	10/31/20 08:00	
480-177390-11	SW-4_20201029	Water	10/29/20 12:45	10/31/20 08:00	
480-177390-12	AW-A11_20201027	Water	10/27/20 16:54	10/31/20 08:00	
480-177390-13	AW-A14_20201027	Water	10/27/20 15:10	10/31/20 08:00	
480-177390-14	AW-C11_20201027	Water	10/27/20 12:40	10/31/20 08:00	
480-177390-15	DUP_20201029	Water	10/29/20 00:00	10/31/20 08:00	
480-177390-16	MW-OB30_20201029	Water	10/29/20 09:30	10/31/20 08:00	
480-177390-17	MW-OB31_20201028	Water	10/28/20 10:15	10/31/20 08:00	
480-177390-18	MW-OB32_20201028	Water	10/28/20 12:45	10/31/20 08:00	
480-177390-19	MW-OB33_20201028	Water	10/28/20 14:27	10/31/20 08:00	
480-177390-20	MW-OB34_20201028	Water	10/28/20 14:55	10/31/20 08:00	
480-177390-21	MW-26_20201027	Water	10/27/20 14:46	10/31/20 08:00	
480-177390-22	AW-C2_20201027	Water	10/27/20 15:32	10/31/20 08:00	
480-177390-23	MW-25S_20201028	Water	10/28/20 09:40	10/31/20 08:00	
480-177390-24	EW-B5_20201028	Water	10/28/20 11:14	10/31/20 08:00	
480-177390-25	DUP-02_20201028	Water	10/28/20 00:00	10/31/20 08:00	
480-177390-26	SUMP-A_20201028	Water	10/28/20 14:23	10/31/20 08:00	
480-177390-27	SUMP-B_20201028	Water	10/28/20 14:55	10/31/20 08:00	
480-177390-28	MW-OB26_20201029	Water	10/29/20 11:20	10/31/20 08:00	
480-177390-29	EB_20201026	Water	10/26/20 18:30	10/31/20 08:00	
480-177390-30	EB_20201027	Water	10/27/20 16:45	10/31/20 08:00	
480-177390-31	EB_20201028	Water	10/28/20 16:15	10/31/20 08:00	
480-177390-32	EB_20201029	Water	10/29/20 14:00	10/31/20 08:00	

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

#224

Chain of Custody Record

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact:
Mr. Jim Vondracek

Phone:

866 992 2636

E-Mail:

eddie.barnett@testamerica.com

Company:
Ashland Inc

Address:
5200 Blazer Parkway DS-4

City:
Dublin

State, Zip:
OH, 43017

Phone:
614-790-6146

Email:
jevondracek@ashland.com, cassie.reuter@ehs.support.com

Project Name:
Hercules Glens Falls Quarterly Event

Site:
Ashland Glens Falls

Due Date Requested:

TAT Requested (days):

Standard

PO #:

4502471936

WO #:

68000966

SSDW#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

9012B - Cyanide, Total

7196A - Chromium, hexavalent (field filtered)

6020A - Dissolved Total Chromium and Vanadium (field filtered)

2540C - Calcd - Total Dissolved Solids (field filtered)

2340C - Hardness as calcium carbonate

8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes (1,2-, 1,3-, 1,4-))

Preservation Codes:

A - HCL

B - NaOH

C - Zn Acetate

D - Nitric Acid

E - NaHSO4

F - MeOH

G - Acetic Acid

H - Ascorbic Acid

I - Ice

J - DI Water

K - EDTA

M - Hexane

N - None

O - AsNaO2

P - Na2OAS

Q - Na2SO3

R - Na2S2O3

S - H2SO4

T - TSP Dodecahydrate

U - Acetone

V - MCAA

W - pH 4-5

COC No:

880-76228-31646.1

Page: 1 of 3

Job #:



480-177390 Chain of Custody

Special Instructions/Note:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Date:

Method of Shipment:

Date/Time:

10/30/20 1445

Company

Ashland

Date/Time:

10/30/20 1445

Company

Ashland

Date/Time:

10/30/20 1445

Company

Ashland

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Albany Chain of Custody Record

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact:
Mr. Jim Vondracek

Phone: 860 992 2656

Lab Pk:
Barnett, Eddie T

E-Mail:
eddie.barnett@testamerica.com

Carrier Tracking No(s):

COC No:
680-76228-31646.1

Page: 2 of 3

Company:
Ashland Inc

Due Date Requested:

Analysis Requested

Preservation Codes:

Address:
5200 Blazer Parkway DS-4

City:
Dublin

State, Zip:
OH, 43017

Phone:
614-790-6146

Email:
jvondracek@ashland.com, cassie.reuter@ehs.support.com

Project Name:
Hercules Glens Falls Quarterly Event

Site:
Ashland Glens Falls

SSOW#:

PO #:
4502471936

WO #:

Project #:
68000956

Matrix:
(Weaver, Solid, On-wash, BT-Tissue, A-4)

Sample Type:
(C=Comp, G=Grab)

Sample Time

Sample Date

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

9012B - Cyanide, Total

7196A - Chromium, hexavalent (field filtered)

6020A - Dissolved Total Chromium and Vanadium (field filtered)

2540C - Total Dissolved Solids (field filtered)

2340C - Hardness as calcium carbonate

8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes (1,2-, 1,3-, 1,4-))

Total Number of containers

Special Instructions/Note:

MS/MSD

10/29/20

1

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Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Albany Chain of Custody Record

testamencia
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact:
Mr. Jim Vondracek

Company:
Ashland Inc

Address:
5200 Blazer Parkway DS-4

City:
Dublin

State, Zip:
OH, 43017

Phone:
614-790-6146

Email:
levondracek@ashland.com, cassie.reuter@ehs.support.com

Project Name:
Hercules Glens Falls Quarterly Event

Site:
Ashland Glens Falls

#2224
Date: 10/30/20
Time: 1700

Lab Piv:
Barnett, Eddie T

E-Mail:
eddie.barnett@testamencia.com

Carrier Tracking No(s):

COC No:
680-7628-31646-1

Page 3 of 5

Analysis Requested

Due Date Requested:	
TAT Requested (days):	Standard
PO #:	4502471936
WO #:	
Project #:	68000956
SSOW#:	

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
9012B - Cyanide, Total	
7196A - Chromium, hexavalent (field filtered)	
6026A - Dissolved Total Chromium and Vanadium (field filtered)	
2540C - Calcd - Total Dissolved Solids (field filtered)	
2340C - Hardness as calcium carbonate	
8260C - (MOD) TCL list OLM04.2 (Dichlorobenzenes [1,2-, 1,3-, 1,4-])	

Preservation Codes:	
A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Ammonia	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4.5
L - EDA	Z - other (specify)
Other:	

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Matrix (Weaver, Seadik, Compositon, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
ML-255-26201038	10/28/20	0940	G		Water			1	
EL-85-20201028	10/28/20	1114	G		Water			1	
DUP-02-20201028	10/28/20	-	G		Water			1	
SUM-01-20201028	10/28/20	1423	G		Water			1	
SUM-02-20201028	10/28/20	1455	G		Water			1	
ML-0826-20201029	10/29/20	1130	G		Water			1	
EL-20201026	10/26/20	1830	G		Water			1	
EL-20201027	10/27/20	1645	G		Water			1	
EL-20201028	10/28/20	1615	G		Water			1	
EL-20201029	10/29/20	1460	G		Water			1	
EL-20201030	10/30/20	1130	G		Water			1	
Possible Hazard Identification									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by:	Date/Time:	Date:	Time:	Method of Shipment:					
Relinquished by:	10/30/20	1445		Company: Ashland					
Relinquished by:	Date/Time:	Date:	Time:	Received by:	Date/Time:	Date:	Time:	Company:	
Relinquished by:	10/30/20	1700		Company: Ashland	10/30/20	1445		Company: Ashland	
Relinquished by:	Date/Time:	Date:	Time:	Received by:	Date/Time:	Date:	Time:	Company:	
Relinquished by:	10/30/20	1700		Company: Ashland	10/30/20	1445		Company: Ashland	
Cooler Temperature(s) °C and Other Remarks:									

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Barnett, Eddie T		Carrier Tracking No(s):		COC No: 480-59811.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Eddie.Barnett@Eurofinset.com		State of Origin: New York		Page: Page 1 of 5	
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - New York				Job #: 480-177390-1	
Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484 Phone: 708-534-5200(Tel) 708-534-5211(Fax), Email:		Due Date Requested: 11/6/2020 TAT Requested (days): PO #: WO #:		Analysis Requested				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:	
Project Name: Hercules Glens Falls O&M Quarterly Site:		Project #: 68000956 SSOW#:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 218.6/FIELD_FLTRD				Total Number of containers	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/soil, BT=T	

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Barnett, Eddie T		Carrier Tracking No(s):		COC No: 480-59811.2																					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Eddie.Barnett@Eurofinset.com		State of Origin: New York		Page Page 2 of 5																					
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - New York				Job #: 480-177390-1																					
Address: 2417 Bond Street,		Due Date Requested: 11/6/2020		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																					
City: University Park		TAT Requested (days):																											
State, Zip: IL, 60484		PO #:																											
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #:																											
Email:																													
Project Name: Hercules Glens Falls O&M Quarterly		Project #: 68000956		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 218.6FIELD_FLTRD				Total Number of containers																					
Site:		SSOW#:																											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)													Special Instructions/Note:											
				Preservation Code:																									
SW-1_20201029 (480-177390-8)		10/29/20	09:05 Eastern		Water		X											1											
SW-2_20201029 (480-177390-9)		10/29/20	10:00 Eastern		Water		X											1											
SW-3_20201029 (480-177390-10)		10/29/20	11:05 Eastern		Water		X											1											
SW-3_20201029 (480-177390-10MS)		10/29/20	11:05 Eastern	MS	Water		X											1											
SW-3_20201029 (480-177390-10MSD)		10/29/20	11:05 Eastern	MSD	Water		X											1											
SW-4_20201029 (480-177390-11)		10/29/20	12:45 Eastern		Water		X											1											
AW-A11_20201027 (480-177390-12)		10/27/20	16:54 Eastern		Water		X											1											
AW-A14_20201027 (480-177390-13)		10/27/20	15:10 Eastern		Water		X											1											
AW-C11_20201027 (480-177390-14)		10/27/20	12:40 Eastern		Water		X											1											
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																													
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)										Primary Deliverable Rank: 2																			
										Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment:														
Relinquished by: [Signature]					Date/Time: 11/6/20 17:00					Company:					Received by: [Signature]					Date/Time: 11/6/20 1005					Company: [Signature]				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Custody Seals Intact: ☐ Yes ☐ No					Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:																			

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Barnett, Eddie T		Carrier Tracking No(s):		COC No: 480-59811.3																																																		
Client Contact: Shipping/Receiving		Phone:		E-Mail: Eddie.Barnett@Eurofinset.com		State of Origin New York		Page: Page 3 of 5																																																		
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - New York				Job #: 480-177390-1																																																		
Address: 2417 Bond Street,		Due Date Requested: 11/8/2020		<table border="1"> <tr> <th colspan="12">Analysis Requested</th> </tr> <tr> <td rowspan="3">Field Filtered Sample (Yes or No)</td> <td rowspan="3">Perform MS/MSD (Yes or No)</td> <td rowspan="3">218.6 FIELD_FLTRD</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						Analysis Requested												Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	218.6 FIELD_FLTRD																																	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Analysis Requested																																																										
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	218.6 FIELD_FLTRD																																																								
City: University Park		TAT Requested (days):																																																								
State, Zip: IL, 60484		PO #:																																																								
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #:																																																								
Email:		Project #: 68000956																																																								
Project Name: Hercules Glens Falls O&M Quarterly		SSOW#:																																																								
Site:																																																										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)						Perform MS/MSD (Yes or No)	218.6 FIELD_FLTRD	Total Number of containers	Special Instructions/Note:																																											
AW-C11_20201027 (480-177390-14MS)		10/27/20	12:40 Eastern	MS	Water							X		1																																												
AW-C11_20201027 (480-177390-14MSD)		10/27/20	12:40 Eastern	MSD	Water							X		1																																												
DUP_20201029 (480-177390-15)		10/29/20	Eastern		Water							X		1																																												
MW-OB30_20201029 (480-177390-16)		10/29/20	09:30 Eastern		Water							X		1																																												
MW-OB31_20201028 (480-177390-17)		10/28/20	10:15 Eastern		Water							X		1																																												
MW-OB32_20201028 (480-177390-18)		10/28/20	12:45 Eastern		Water							X		1																																												
MW-OB33_20201028 (480-177390-19)		10/28/20	14:27 Eastern		Water							X		1																																												
MW-OB34_20201028 (480-177390-20)		10/28/20	14:55 Eastern		Water							X		1																																												
MW-26_20201027 (480-177390-21)		10/27/20	14:46 Eastern		Water							X		1																																												
Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica																																																										
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																				
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																																																				
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2						Special Instructions/QC Requirements:																																														
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																																																		
Relinquished by: <i>[Signature]</i>				Date/Time: 11/6/20 17:00		Company:		Received by: <i>[Signature]</i>				Date/Time: 11/3/20 10:05		Company: <i>[Signature]</i>																																												
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:																																												
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:																																												
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:																																																		

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

 eurofins Environment Testing
America

Page 30 of 33

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 480-177390-1

Login Number: 177390

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 480-177390-1

Login Number: 177390

List Number: 3

Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

List Creation: 11/03/20 01:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



16-Nov-2020

Cassie Reuter
EHS Support LLC
316 Grandview Ave
Argyle, WI 53504

Re: **Gfalls 2021-0400**

Work Order: **20110032**

Dear Cassie,

ALS Environmental received 6 samples on 31-Oct-2020 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink that reads "Ehrland Bosworth".

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: EHS Support LLC
Project: Gfalls 2021-0400
Work Order: 20110032

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20110032-01	SW-1-20201029	Surface Wate		10/29/2020 09:05	10/31/2020 10:30	☐
20110032-02	SW-2-20201029	Surface Wate		10/29/2020 10:00	10/31/2020 10:30	☐
20110032-03	SW-3-20201029	Surface Wate		10/29/2020 11:05	10/31/2020 10:30	☐
20110032-04	SW-4-20201029	Surface Wate		10/29/2020 12:45	10/31/2020 10:30	☐
20110032-05	DUP-20201029	Surface Wate		10/29/2020	10/31/2020 10:30	☐
20110032-06	EB-20201029	Water		10/29/2020 14:00	10/31/2020 10:30	☐

Client: EHS Support LLC
Project: Gfalls 2021-0400
WorkOrder: 20110032

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

Client: EHS Support LLC
Project: Gfalls 2021-0400
Work Order: 20110032

Case Narrative

Samples for the above noted Work Order were received on 10/31/2020. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group, USA

Date: 16-Nov-20

Client: EHS Support LLC
Project: Gfalls 2021-0400

Work Order: 20110032

Lab ID: 20110032-01A
Client Sample ID: SW-1-20201029

Collection Date: 10/29/2020 9:05:00 AM
Matrix: SURFACE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE			OIA 1677			Analyst: MB
Cyanide, Free	1.3	J	2.0	µg/L	1	11/3/2020 10:00 AM

Lab ID: 20110032-02A
Client Sample ID: SW-2-20201029

Collection Date: 10/29/2020 10:00:00 AM
Matrix: SURFACE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE			OIA 1677			Analyst: MB
Cyanide, Free	1.1	J	2.0	µg/L	1	11/3/2020 10:00 AM

Lab ID: 20110032-03A
Client Sample ID: SW-3-20201029

Collection Date: 10/29/2020 11:05:00 AM
Matrix: SURFACE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE			OIA 1677			Analyst: MB
Cyanide, Free	1.6	J	2.0	µg/L	1	11/3/2020 10:00 AM

Lab ID: 20110032-04A
Client Sample ID: SW-4-20201029

Collection Date: 10/29/2020 12:45:00 PM
Matrix: SURFACE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE			OIA 1677			Analyst: MB
Cyanide, Free	1.8	J	2.0	µg/L	1	11/3/2020 10:00 AM

Lab ID: 20110032-05A
Client Sample ID: DUP-20201029

Collection Date: 10/29/2020
Matrix: SURFACE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE			OIA 1677			Analyst: MB
Cyanide, Free	1.0	J	2.0	µg/L	1	11/3/2020 10:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 16-Nov-20

Client: EHS Support LLC
Project: Gfalls 2021-0400

Work Order: 20110032

Lab ID: 20110032-06A

Collection Date: 10/29/2020 2:00:00 PM

Client Sample ID: EB-20201029

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, FREE Cyanide, Free	U		OIA 1677 2.0	µg/L	1	Analyst: MB 11/3/2020 10:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: EHS Support LLC
 Work Order: 20110032
 Project: Gfalls 2021-0400

QC BATCH REPORT

Batch ID: **R301797** Instrument ID **FS3100** Method: **OIA 1677**

MBLK		Sample ID: MB-R301797-R301797				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6851991		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free U 2.0

MBLK		Sample ID: MB-R301797-R301797				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6852007		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free U 2.0

LCS		Sample ID: LCS-R301797-R301797				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6851992		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free 53.47 2.0 50 0 107 82-132 0

LCS		Sample ID: LCS-R301797-R301797				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6852008		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free 57.37 2.0 50 0 115 82-132 0

MS		Sample ID: 20110032-03AMS				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID: SW-3-20201029		Run ID: FS3100_201103A				SeqNo: 6852002		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free 55.44 2.0 50 1.567 108 82-130 0

MS		Sample ID: 20110034-01A MS				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6852012		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free 53.53 2.0 50 -0.234 108 82-130 0

MSD		Sample ID: 20110032-03AMSD				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID: SW-3-20201029		Run ID: FS3100_201103A				SeqNo: 6852003		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Free 55.69 2.0 50 1.567 108 82-130 55.44 0.452 11

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EHS Support LLC
Work Order: 20110032
Project: Gfalls 2021-0400

QC BATCH REPORT

Batch ID: **R301797** Instrument ID **FS3100** Method: **OIA 1677**

MSD		Sample ID: 20110034-01A MSD				Units: µg/L		Analysis Date: 11/3/2020 10:00 AM		
Client ID:		Run ID: FS3100_201103A				SeqNo: 6852013		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Free	50.85	2.0	50	-0.234	102	82-130	53.53	5.13	11	

The following samples were analyzed in this batch:

20110032-01A	20110032-02A	20110032-03A
20110032-04A	20110032-05A	20110032-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Phone: 616 399 6070 FAX: 616 399 6185

Shipping Number#

PAGE 1 OF 1

[illegible]

Sample Receipt Checklist

Client Name: **EHS SUPPORT-ARGYLE**

Date/Time Received: **31-Oct-20 10:30**

Work Order: **20110032**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

02-Nov-20
Date

Reviewed by: Ehland Bramworth
eSignature

03-Nov-20
Date

Matrices: **Water**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>3.0/4.0 C</u>		<u>IR3</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/2/2020 11:22:28 AM</u>		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:	<u></u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Appendix C Tier II Validation Reports

EHS Validation Report

Number: 327

Former Ciba Geigy
Facility

Queensbury, New York

Analyses performed

by: TestAmerica,

Buffalo, New York

Sample Delivery Group
(SDG): 480-177359

Analyses: VOC, Metals,
General Chemistry

Review Level: Tier II



Report Date:

January 10, 2021



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6.4	Laboratory Duplicate Analysis	8
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6.7	Additional Notes	10



Sample Summary

Water samples were collected at the Former Ciba Geigy Facility in Queensbury, New York and were analyzed by Environmental Protection Agency (EPA) SW-846 Methods 8260C for volatile organic compounds (VOC), 6020A for metals, 9012B for cyanide, and by Standard Methods SM2340C for hardness and 2540C for total dissolved solids. Samples included in this sample delivery group (SDG), and in this data validation report, are listed in the table below.

SDG	Lab Sample ID	Field Sample ID	Sample Matrix	Sample Collection Date	Analysis		
					Gen Chem	Metals	VOC
480-177359-1	480-177359-1	IP-4_20201026	Water	10/26/2020	X	X	
480-177359-1	480-177359-2	MW-OB25_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-3	MW-OB14_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-4	AW-B18_20201026	Water	10/26/2020	X	X	X
480-177359-1	480-177359-5	DUP_20201026	Water	10/26/2020	X	X	X
480-177359-1	480-177359-6	MW-31_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-7	AW-B4_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-8	SW-1_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-9	SW-2_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-10	SW-3_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-11	SW-4_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-12	AW-A11_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-13	AW-A14_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-14	AW-C11_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-15	DUP_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-16	MW-OB30_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-17	MW-OB31_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-18	MW-OB32_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-19	MW-OB33_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-20	MW-OB34_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-21	MW-26_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-22	AW-C2_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-23	MW-25S_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-24	EW-B5_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-25	DUP-02_20201028	Water	10/28/2020	X	X	



SDG	Lab Sample ID	Field Sample ID	Sample Matrix	Sample Collection Date	Analysis		
					Gen Chem	Metals	VOC
480-177359-1	480-177359-26	SUMP-A_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-27	SUMP-B_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-28	MW-OB26_20201029	Water	10/29/2020		X	
480-177359-1	480-177359-29	MW-OB26_20201030	Water	10/30/2020	X		
480-177359-1	480-177359-30	EB_20201026	Water	10/26/2020	X	X	X
480-177359-1	480-177359-31	EB_20201027	Water	10/27/2020	X	X	
480-177359-1	480-177359-32	EB_20201028	Water	10/28/2020	X	X	
480-177359-1	480-177359-33	EB_20201029	Water	10/29/2020	X	X	
480-177359-1	480-177359-34	EB_20201030	Water	10/30/2020	X		
480-177359-1	480-177359-35	TRIP BLANKS	Water	10/26/2020			X



1 Introduction

Data were reviewed in accordance with USEPA Contract Laboratory Program National Functional Guidelines (Inorganic, January 2010 and Organic, June 2008), laboratory analytical methods, and professional judgment. Relevant EPA Region 2 Data Validation SOPs were referenced as needed. It is expected that the laboratory conducted sufficient quality review of the data prior to reporting. While QC is meant to increase confidence in analytical data, it is important to note that no compound concentration is guaranteed to be accurate, even if all QC criteria were met.

Data validation includes a review of reported results and supporting documentation in the laboratory report. Based on this evaluation, qualifiers may be added, deleted, or modified. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

1.1 Validation Qualifiers

- U The analyte was included in the analysis but was not detected above the reported quantitation limit, or the result is considered non-detect as a consequence of associated blank contamination.
- UJ The analyte was included in the analysis but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



2 Sample Custody and Receipt

All samples were received in good condition and properly preserved. The chain of custody was properly completed. One labelling discrepancy was noted on the Login Sample Receipt Checklist, but questions were answered via communication between laboratory staff and Antea Group staff. There was no impact to reported results.



3 Assessment Summary and Data Usability

In this SDG, no QC (quality control) excursions encountered led to rejection of data. Results reported in this SDG are considered usable. Please refer to report below for specific QC variances and data qualification.



4 Volatile Organic Compound (VOC) analysis

4.1 Preservation and Holding Times

Acceptance criteria were met. Relevant preservation and holding time requirements are presented in the following table.

Method	Matrix	Preservation	Holding Time
Method 8260	Soil	Frozen, or cooled to ≤ 6 °C and preserved with NaHSO ₄ or MeOH	14 days
	Water	≤ 6 °C; HCl to pH < 2	14 days
		≤ 6 °C	7 days

4.2 Blanks

Acceptance criteria were met; no detections were reported from the method blank, trip blank or equipment blank submitted with the samples in this SDG.

4.3 Surrogates

Acceptance criteria were met.

4.4 Laboratory Control Sample (LCS)

Acceptance criteria were met.

4.5 Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Analysis

Matrix spike recoveries and/or RPD values outside control limits are presented in the table below.

Sample ID	Compound	Recovery		MS/MSD RPD
		MS	MSD	
480-177359-4	1,2-Dichlorobenzene	Acceptable	> UL	Acceptable

UL Upper control limit

As a consequence of these excursions, the listed results have been qualified as per the following table.

Quality Control Nonconformance	Sample Result	Sample Result Qualification
Recovery > Upper control limit (UL)	Non-detect	No Action
	Detect	J
Recovery < Lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J



Quality Control Nonconformance	Sample Result	Sample Result Qualification
Recovery < 10%	Non-detect	R
	Detect	J
MS/MSD RPD > Upper control limit (UL)	Non-detect	UJ
	Detect	J

4.6 Field Duplicates

Acceptance criteria, shown in the table below, were met. One field duplicate sample - parent sample pair in this sample delivery group was designated for VOC analysis.

Quality Control Nonconformance	Sample Result	Qualification ^(Note 1)
Sample and its field duplicate $\geq 5x$ the RL and -RPD > 30% (aqueous) - or - -RPD > 50% (soil/ sediment)	Detect	J
Sample and/or its field duplicate < 5x the RL and -absolute difference > 2x the RL (aqueous) - or - -absolute difference > 3x the RL (soil/ sediment)	Non-detect	UJ
	Detect	J

RL Reporting limit

RPD Relative percent difference

4.7 Additional Notes

NA: No additional notes to report.



5 Metals Analysis

5.1 Preservation and Holding Times

Acceptance criteria were met. Relevant preservation and holding time requirements are presented in the following table.

Method	Matrix	Preservation	Holding Time
Metals (except Hg and Cr6+) by 6010 / 6020	Water	HNO ₃ to pH <2	180 days
	Soil	None	180 days

5.2 Blanks

No results were qualified due to contamination. 6020 chromium was detected in the equipment blank collected on 10-27, at a concentration less than the reporting limit. Results for associated field samples collected on the same day were either non-detect or were greater than 5x the blank concentration. Method blank results were non-detect.

5.3 Laboratory Control Sample (LCS)

Acceptance criteria were met.

5.4 Laboratory Duplicate Analysis

NA: No laboratory duplicate analysis performed on a sample in this data set was reported.

5.5 Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Analysis

Acceptance criteria were met. MS/MSD analyses were performed on several samples in this data set. Please note that matrix spike analyses cannot be evaluated when the concentration of the relevant analyte in the unspiked parent sample is $\geq 4x$ the spike amount.

5.6 Serial Dilution

NA: No serial dilution analysis performed on a sample in this data set was reported.

5.7 Field Duplicates

Acceptance criteria, shown in the table below, were met. Three field duplicate sample and parent sample pairs in this sample delivery group were designated for metals analysis.



Quality control nonconformance	Sample Result	Sample Result Qualification
Sample and its field duplicate $\geq 5x$ the RL and -RPD > 30% (aqueous) - or - -RPD > 50% (soil/ sediment)	Detect	J
Sample and/or its field duplicate < 5x the RL and -absolute difference > 2x the RL (aqueous) - or - -absolute difference > 3x the RL (soil/ sediment)	Non-detect	UJ
	Detect	J

5.8 Additional Notes

NA: No additional notes to report.



6 General Chemistry Analysis

6.1 Preservation and Holding Times

Acceptance criteria were met. Relevant preservation and holding time requirements are presented in the following table.

Method	Matrix	Preservation	Holding time
Total cyanide by 9012B	Water	4°C ± 2°C, NaOH to pH > 12	14 days
Hardness by SM2340C	Water	HNO ₃ to pH <2	180 days
Total Dissolved Solids (TDS) by SM2540	Water	4°C ± 2°C	7 days

6.2 Blanks

No detections were reported in method blanks. Hardness, cyanide, and total dissolved solids were detected in equipment blanks. Field sample results that were consequently qualified are presented in the table below.

Analyte	Blank detection	Blank result (category)	Associated samples	Sample result	Qualification
Hardness	88000 ug/L (EB-20201029)	> RL	480-177359-8 480-177359-9 480-177359-10 480-177359-11 480-177359-15	> RL but < blank result	U at level of blank result
Cyanide	0.0082 J mg/L (EB-20201029)	< RL	480-177359-16 480-177359-3	> RL but < 5x blank concentration > RL and > 5x blank concentration	U at the detected concentration No qualification needed
Total dissolved solids	150 mg/L mg/L (EB-20201029)	> RL	480-177359-8 480-177359-9 480-177359-10 480-177359-11 480-177359-15	> RL but < blank result	U at level of blank result

EB Equipment blank
RL Reporting limit
MDL Method detection limit

6.3 Laboratory Control Sample (LCS)

Acceptance criteria were met.

6.4 Laboratory Duplicate Analysis

Acceptance criteria, shown in the table below, were met. Laboratory duplicate analyses was performed for total dissolved solids.



Sample result classification	Acceptance limit
Sample and its field duplicate $\geq 5x$ the RL and	RPD > 20% (aqueous) RPD > 35% (soil/ sediment)
Sample and/or its field duplicate < 5x the RL	absolute difference > 1x the RL (aqueous) absolute difference > 2x the RL (soil/ sediment)

6.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis

MS analysis performed on sample 480-177359-21 and MS/MSD analysis performed on sample 480-177359-14, both for cyanide, yielded acceptable results. A portion of those recoveries were outside laboratory limits, but all were within the limits applied during validation, which are 75% - 125%, per National Functional Guidelines.

MS/MSD analysis was also performed on sample 480-177359-10 for hardness; results were acceptable. Matrix spike recoveries and/or RPD values outside control limits are presented in the table below.

Sample ID	Analyte	Recovery		MS/MSD RPD
		MS	MSD	
480-177359-4	Cyanide	Acceptable	65%	Acceptable

As a consequence of these excursions, the listed results have been qualified as per the following table.

Recovery	Sample Result	Qualification
MS percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS percent recovery >125%	Non-detect	No Action
	Detect	J

6.6 Field Duplicates

Acceptance criteria, shown in the table below, were met. Three field duplicate sample - parent sample pairs in this sample delivery group were designated for general chemistry analysis.

Quality control nonconformance	Sample Result	Sample Result Qualification
Sample and its field duplicate $\geq 5x$ the RL and -RPD > 30% (aqueous) - or - -RPD > 50% (soil/ sediment)	Detect	J
Sample and/or its field duplicate < 5x the RL and -absolute difference > 2x the RL (aqueous) - or - -absolute difference > 3x the RL (soil/ sediment)	Non-detect	UJ
	Detect	J



6.7 Additional Notes

NA: No additional notes to report.

Validation performed by: Amy Coats
EHS Support

EHS Validation Report

Number: 328

Former Ciba Geigy
Facility

Queensbury, New York

Analyses performed

by: TestAmerica,

Chicago, Illinois

Sample Delivery Group
(SDG): 480-177390

Analyses: General
Chemistry

Review Level: Tier II



Report Date:

January 5, 2021



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Sample Summary

Water samples were collected at the Former Ciba Geigy Facility in Queensbury, New York and were analyzed by Environmental Protection Agency (EPA) Method 218.6 for hexavalent chromium. Samples included in this sample delivery group (SDG), and in this data validation report, are listed in the table below.

Lab Sample ID	Field Sample ID	Sample Matrix	Sample Collection Date	Analysis		
				Metals	CN	Cr ⁶⁺
480-177390-1	IP-4_20201026	Water	10/26/2020			X
480-177390-2	MW-OB25_20201028	Water	10/28/2020			X
480-177390-3	MW-OB14_20201029	Water	10/29/2020			X
480-177390-4	AW-B18_20201026	Water	10/26/2020			X
480-177390-5	DUP_20201026	Water	10/26/2020			X
480-177390-6	MW-31_20201027	Water	10/27/2020			X
480-177390-7	AW-B4_20201027	Water	10/27/2020			X
480-177390-8	SW-1_20201029	Water	10/29/2020			X
480-177390-9	SW-2_20201029	Water	10/29/2020			X
480-177390-10	SW-3_20201029	Water	10/29/2020			X
480-177390-11	SW-4_20201029	Water	10/29/2020			X
480-177390-12	AW-A11_20201027	Water	10/27/2020			X
480-177390-13	AW-A14_20201027	Water	10/27/2020			X
480-177390-14	AW-C11_20201027	Water	10/27/2020			X
480-177390-15	DUP_20201029	Water	10/29/2020			X
480-177390-16	MW-OB30_20201029	Water	10/29/2020			X
480-177390-17	MW-OB31_20201028	Water	10/28/2020			X
480-177390-18	MW-OB32_20201028	Water	10/28/2020			X
480-177390-19	MW-OB33_20201028	Water	10/28/2020			X
480-177390-20	MW-OB34_20201028	Water	10/28/2020			X
480-177390-21	MW-26_20201027	Water	10/27/2020			X
480-177390-22	AW-C2_20201027	Water	10/27/2020			X
480-177390-23	MW-25S_20201028	Water	10/28/2020			X
480-177390-24	EW-B5_20201028	Water	10/28/2020			X
480-177390-25	DUP-02_20201028	Water	10/28/2020			X
480-177390-26	SUMP-A_20201028	Water	10/28/2020			X
480-177390-27	SUMP-B_20201028	Water	10/28/2020			X
480-177390-28	MW-OB26_20201029	Water	10/29/2020			X
480-177390-29	EB_20201026	Water	10/26/2020			X
480-177390-30	EB_20201027	Water	10/27/2020			X
480-177390-31	EB_20201028	Water	10/28/2020			X



Lab Sample ID	Field Sample ID	Sample Matrix	Sample Collection Date	Analysis		
				Metals	CN	Cr ⁶⁺
480-177390-32	EB_20201029	Water	10/29/2020			X



1 Introduction

Data were reviewed in accordance with USEPA Contract Laboratory Program National Functional Guidelines (Inorganic, January 2010), laboratory analytical methods, and professional judgment. Relevant EPA Region 2 Data Validation SOPs were referenced as needed. It is expected that the laboratory conducted sufficient quality review of the data prior to reporting. While QC is meant to increase confidence in analytical data, it is important to note that no compound concentration is guaranteed to be accurate, even if all QC criteria were met.

Data validation includes a review of reported results and supporting documentation in the laboratory report. Based on this evaluation, qualifiers may be added, deleted, or modified. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

1.1 Validation Qualifiers

- U The analyte was included in the analysis but was not detected above the reported quantitation limit, or the result is considered non-detect as a consequence of associated blank contamination.
- UJ The analyte was included in the analysis but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



2 Sample Custody and Receipt

All samples were received in good condition and properly preserved. The chain of custody was properly completed.



3 Assessment Summary and Data Usability

In this SDG, no QC (quality control) excursions encountered led to qualification or rejection of data. Results reported in this SDG are considered usable. Please refer to report below for specific QC information.



4 General Chemistry Analysis

4.1 Preservation and Holding Times

Acceptance criteria were met. Relevant preservation and holding time requirements are presented in the following table.

Method	Matrix	Preservation	Holding time
Hexavalent chromium by 218.6	Water	Field filtration, ammonium sulfate buffer, 4°C ± 2°C	28 days*

*Footnote 20 from Code of Federal Regulations Title 40 Part 136, Subchapter D, Table II: "To achieve the 28-day holding time, use the ammonium sulfate buffer solution specified in EPA Method 218.6. The allowance in this footnote supersedes preservation and holding time requirements in the approved hexavalent chromium methods, unless this supersession would compromise the measurement, in which case requirements in the method must be followed."

4.2 Blanks

Acceptance criteria were met. No detections were reported in the equipment blanks nor in the laboratory method blank associated with this data.

4.3 Laboratory Control Sample (LCS)

Acceptance criteria were met.

4.4 Laboratory Duplicate Analysis

NA: No laboratory duplicate analysis performed on a sample in this data set was reported.

4.5 Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Analysis

Acceptance criteria were met. MS/MSD analysis was performed on three samples in this sample delivery group.

4.6 Field Duplicates

Acceptance criteria, shown below, were met. Three field duplicate- parent sample pairs were included in this sample delivery group.

Quality Control Nonconformance	Sample Result	Sample Result Qualification
Sample and its field duplicate ≥ 5x the RL and -RPD > 30% (aqueous) - or - -RPD > 50% (soil/ sediment)	Detect	J
Sample and/or its field duplicate < 5x the RL and -absolute difference > 2x the RL (aqueous) - or - -absolute difference > 3x the RL (soil/ sediment)	Non-detect	UJ
	Detect	J



4.7 Additional Notes

NA: No additional notes to report.

Validation performed by: Amy Coats
EHS Support

EHS Validation Report

Number: 329

Former Ciba Geigy
Facility

Queensbury, New York

Analysis performed by
ALS Environmental,
Holland, Michigan

Sample Delivery Group
(SDG): 20110032

Analysis: General
Chemistry

Review Level: Tier II



Report Date:

January 5, 2021



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Sample Summary

Water samples were collected at the Former Ciba Geigy Facility in Queensbury, New York and were analyzed by Environmental Protection Agency (EPA) Method by OIA 1677 for free cyanide. Samples included in this sample delivery group (SDG), and in this data validation report, are listed in the table below.

SDG	Lab Sample ID	Field Sample ID	Sample Matrix	Sample Collection Date	Free Cyanide Analysis
20110032	20110032-01A	SW-1-20201029	Water	10/29/2020	X
20110032	20110032-02A	SW-2-20201029	Water	10/29/2020	X
20110032	20110032-03A	SW-3-20201029	Water	10/29/2020	X
20110032	20110032-04A	SW-4-20201029	Water	10/29/2020	X
20110032	20110032-05A	DUP-20201029	Water	10/29/2020	X
20110032	20110032-06A	EB-20201029	Water	10/29/2020	X



1 Introduction

Data were reviewed in accordance with USEPA Contract Laboratory Program National Functional Guidelines (Inorganic, January 2010), laboratory analytical methods, and professional judgment. Relevant EPA Region 2 Data Validation SOPs were referenced as needed. It is expected that the laboratory conducted sufficient quality review of the data prior to reporting. While QC is meant to increase confidence in analytical data, it is important to note that no compound concentration is guaranteed to be accurate, even if all QC criteria were met.

Data validation includes a review of reported results and supporting documentation in the laboratory report. Based on this evaluation, qualifiers may be added, deleted, or modified. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

1.1 Validation Qualifiers

- U The analyte was included in the analysis but was not detected above the reported quantitation limit, or the result is considered non-detect as a consequence of associated blank contamination.
- UJ The analyte was included in the analysis but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



2 Sample Custody and Receipt

All samples were received in good condition and properly preserved. The chain of custody was properly completed.



3 Assessment Summary and Data Usability

In this SDG, no quality control (QC) excursions encountered led to qualification or rejection of data. Results reported in this SDG are considered usable. Please refer to report below for specific QC information.



4 General Chemistry Analysis

4.1 Preservation and Holding Times

Acceptance criteria were met. Relevant preservation and holding time requirements are presented in the following table.

Method	Matrix	Preservation	Holding time
Free cyanide by OIA 1677	Water	NaOH to pH > 12	14 days

4.2 Blanks

Acceptance criteria were met. No detections were reported in the method blank nor in the equipment blank.

4.3 Laboratory Control Sample (LCS)

Acceptance criteria were met.

4.4 Laboratory Duplicate Analysis

NA: No laboratory duplicate analysis performed on a sample in this data set was reported.

4.5 Matrix Spike/ Matrix Spike Duplicate (MS/MSD) analysis

Acceptance criteria were met. MS/MSD analysis was performed on sample 20110032-03A.

4.6 Field Duplicates

Acceptance criteria were met. One parent sample – field duplicate pair was included in this sample delivery group. Results for both parent and duplicate were less than the reporting limit.

4.7 Additional Notes

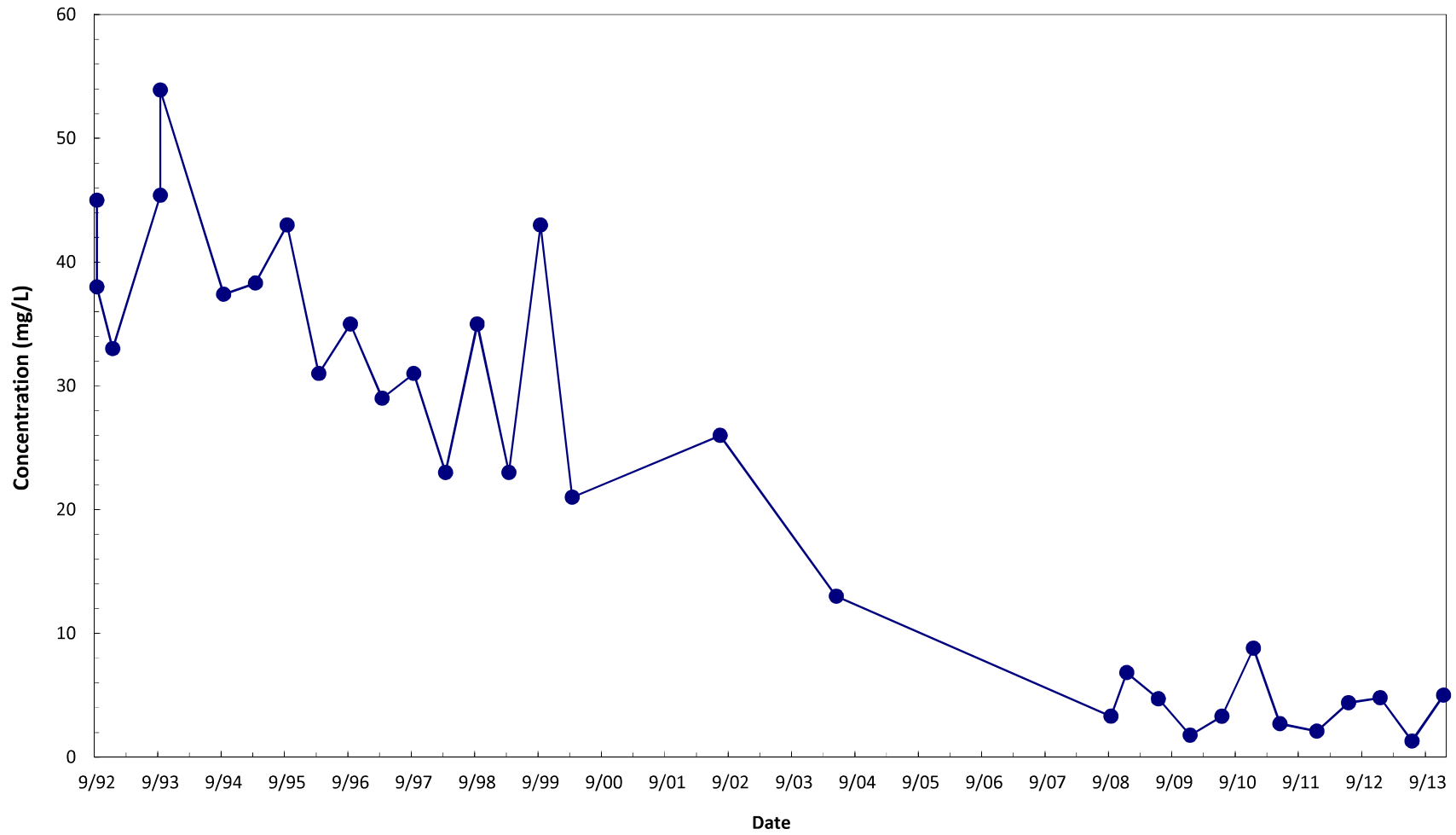
NA: No additional notes to report.

Validation performed by: Amy Coats
EHS Support



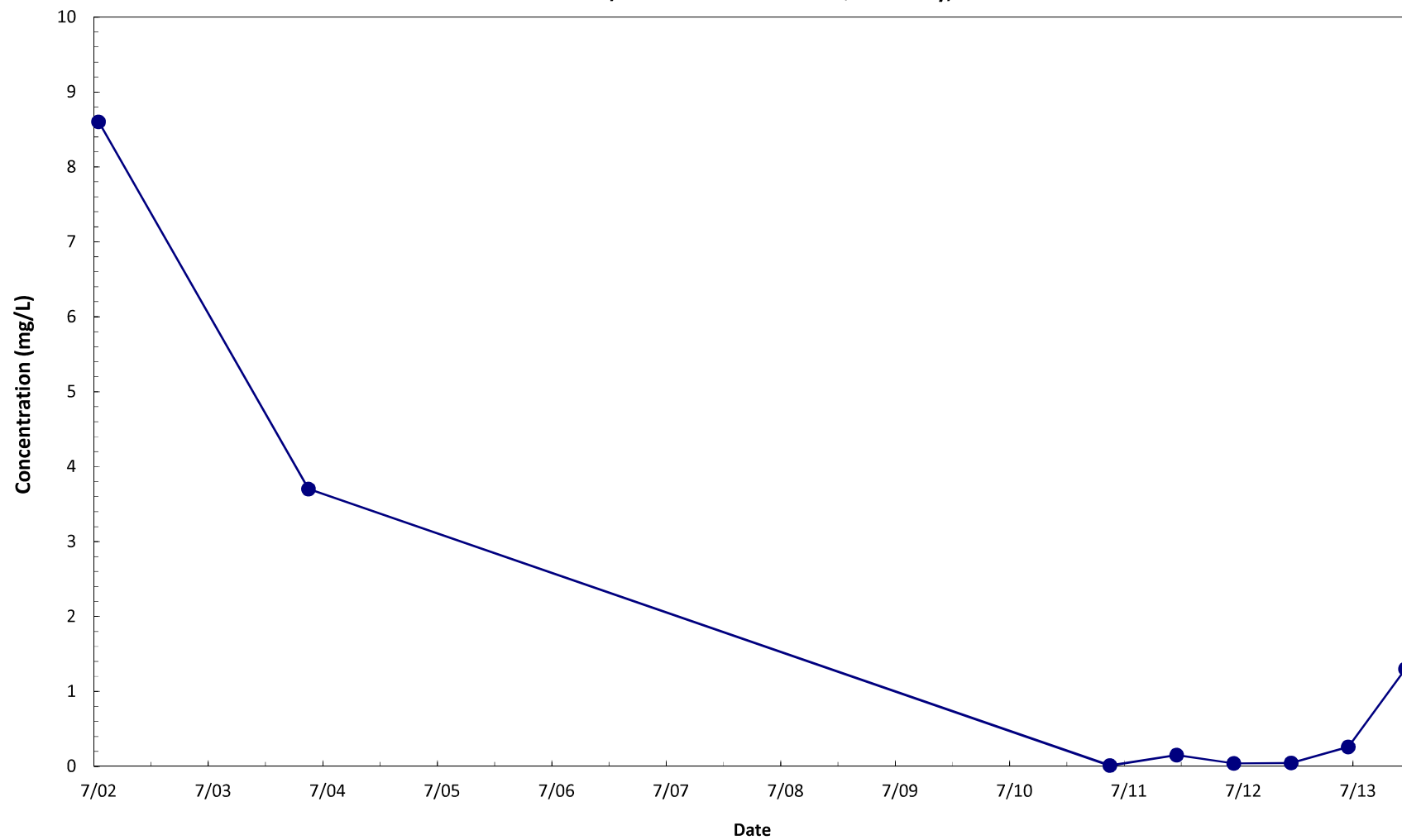
Appendix D Historical Trends – MW-OB14 and AW-C11 (Antea, 2014)

Chromium in Groundwater
MW-OB14
Former CIBA-GEIGY/HERCULES Plant Site - Queensbury, NY



—●— Sample Concentration

Chromium in Groundwater
AW-C11
Former CIBA-GEIGY/HERCULES Plant Site - Queensbury, NY



—●— Sample Concentration