



January 19, 2021

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

**RE: Revised Periodic Review Report
Hudson River Waterfront-DeLaval Property, Poughkeepsie, New York
CHA Project No.: 030114
NYSDEC Site No.: B00190**

Dear Mr. Gerald Pratt, P.G.,

On behalf of the City of Poughkeepsie, please find a revised copy of the 2020 Periodic Review Report (PRR) for the DeLaval Property located at 202-204 Rinaldi Boulevard in the City of Poughkeepsie, New York. The document has been revised to reflect the comments provided in the New York State Department of Environmental Conservation's (NYSDEC's) letter dated January 13, 2021.

CHA recognizes the approval of the following requests as outlined in the 2020 PRR:

- **Approved** – The request to cease volatile organic compound analyses for all wells.
- **Approved** – The request to cease vapor headspace monitoring for all wells.

The NYSDEC comments and CHA responses/report amendments are summarized below:

Comment 1: The Sampling Date row should have the dates of samples collected in 2020. Please update this information.

Response 1: Table 3-1 has been updated to reflect the comment stated above. Please see the revised copy of the 2020 PRR.

Comment 2: The Department requests that the groundwater monitoring wells are secured. This can be done with the installation of either a steel well casing or flush mount curb box.

Response 2: The City of Poughkeepsie is in possession of the steel casings for the groundwater monitoring wells. The monitoring wells will be made secure during the 2021 reporting year.

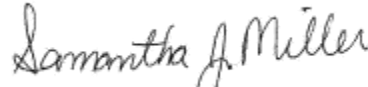
Upon the request of NYSDEC, CHA will continue to use an oil-water interface probe during well gauging until the monitoring wells are made secure.

If you have any questions, please do not hesitate to contact either Karyn Ehmann at (315) 257-7250 or Samantha Miller at (315) 257-7154.

Sincerely,



Karyn Ehmann
Assistant Engineer I



Samantha J. Miller, P.E.
Assistant Project Engineer III

ecc: Mr. Joseph Kane, City of Poughkeepsie
Mr. Scott Smith, CHA

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2020 PERIODIC REVIEW REPORT

**DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York**

NYSDEC Site Number: B00190-3

CHA Project Number: 030114.000

Prepared for:

***City of Poughkeepsie
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January 5, 2021

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LIST OF ACRONYMS

ACM	Asbestos Containing Material
AOC	Area of Concern
C&D	Construction & Demolition
CHA	CHA Consulting, Inc.
EC	Engineering Control
EPA	Environmental Protection Agency
ERP	Environmental Restoration Program
IC	Institutional Control
LNAPL	Light Non-Aqueous Phase Liquid
MOSF	Major Oil Storage Facility
NYSDEC	New York State Department of Environmental Conservation
OGS	Office of General Services
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PRR	Periodic Review Report
RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
SAC	State Assistance Contract
SMP	Site Management Plan
SSP	Steel Sheet Pile
STP	Sewage Treatment Plant
SVOC	Semi-volatile Organic Compound
TCL	Target Compound List
TMP	Tax Map Parcel
TOGS	Technical and Operational Guidance Series
UCC	Underwater Construction Corporation
UST	Underground Storage Tank
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The DeLaval Property (Site) is located in Dutchess County, New York and is identified as Tax Map Parcel (TMP) No. 131300-6061-43-752749-0000 on the City of Poughkeepsie Tax Map. The address for the Site is 202-204 Rinaldi Boulevard, Poughkeepsie, New York. The Site has a long history of former industrial use based upon review of available Sanborn Mapping and other historical documents. The DeLaval Separator Company reportedly started operations on the Site in 1890 and a review of aerial photographs indicated that operations likely ceased in the early 1960s, followed by the razing of most of the Site structures sometime between 1962 and 1967.

The following types of contaminants were identified on the DeLaval Site during the Site investigations and during the remedial action: volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); heavy metals; and asbestos-containing materials (ACMs) which were discovered during the remedial action phase. The remedial action for the Site was completed between 2008 and 2011.

The Remedial Action Objectives established for the Site were achieved through implementation/completion of the following general remedial components: removal of grossly-contaminated soils and other contaminated media encountered during construction activities; construction of steel sheet pile (SSP) bulkheads and riprap revetment along the western property boundary (Hudson River shoreline); placement of a soil cover system across the Site; and installation of a post-remediation groundwater monitoring well network to facilitate periodic groundwater sampling. In addition, the Site remedy required that an environmental easement be placed on the property to: implement, maintain and monitor the Engineering Controls (e.g. bulkheads, riprap revetment, soil cover system); prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and limit the use and development of the Site to commercial and passive recreational uses only.

This Periodic Review Report (PRR) is required as an element of the NYSDEC-approved Site Management Plan (SMP) developed for the Site and documents the annual groundwater monitoring event and Site-wide inspection completed during the summer of 2020. Additionally, on July 16, 2020, CHA retained Underwater Construction Corporation (UCC) to complete ultrasonic thickness measurements on the steel bulkheads in accordance with the Site Management Plan.

The Site was observed to be in overall good condition at the time of the most recent sitewide

inspection, conducted on July 16, 2020. No additional development of the Site has occurred since the last inspection in July 2019. The Site has remained unchanged since 2011, with the exception of additional vegetation growth. Additionally, no leaks were observed during the inspection of the bulkheads and no appreciable level of thinning of the steel sheet piles has occurred since the installation of the bulkheads since 2008.

The groundwater analytical results from the July 2020 monitoring event indicate that concentrations of the contaminants of concern are below established New York State Groundwater Ambient Water Quality Standards and/or Guidance Values (Class GA) with the exception of six SVOCs: benzo(a)anthracene; benzo(b)fluoranthene; benzo(a)pyrene; benzo(k)fluoranthene; chrysene; indeno(1,2,3-cd)pyrene; lead and Aroclor 1260. Overall, the analytical results indicate stable concentrations of the contaminants of concern from 2015 to 2020 and indicate that the remedy continues to be effective in achieving the RAOs for groundwater.

It is recommended that the current institutional and engineering controls in place at the Site remain in place, and the engineering controls continue to be inspected and monitored. No changes to the remedy or operation & maintenance plans are recommended at this time. However, given the continued trends over the past six years of groundwater monitoring, CHA recommends changes in environmental monitoring going forward, as follows:

- Eliminate the need to measure the vapor headspace in the monitoring wells given that no detectable vapor concentrations have been detected in the wells since monitoring commenced in 2015.
- Eliminate the need to use an oil-water interface probe to measure the thickness of LNAPL in the monitoring wells given that no detectable LNAPL levels have been detected in the wells since monitoring commenced in 2015. Rather, a water-level meter capable of measuring the water level with a 0.01-foot accuracy is recommended for future well gauging activities.
- Eliminate analysis for VOCs in all wells as no VOCs have been detected in exceedance of standards or guidance values since monitoring started in 2015.

1.0 SITE OVERVIEW

The City of Poughkeepsie (City) entered into a State Assistance Contract (SAC) with the New York State Department of Environmental Conservation (NYSDEC) in November 2005 (SAC No. C302762) to allow the City to seek reimbursement for a portion of the costs required to perform an investigation and complete a Remedial Alternative Analysis through the NYSDEC's Environmental Restoration Program (ERP) for a 14.04-acre property located in the City of Poughkeepsie, New York. The SAC was later amended (Amendment No. 1) to include reimbursement of a portion of incurred costs for the remedial design and remedial action. The Hudson River Waterfront - DeLaval Property, hereinafter referred to as the "Site" (also referred to as NYSDEC Site No. B00190-3), was remediated to commercial-use levels only, which includes passive recreational uses. This Periodic Review Report (PRR) is required as an element of the NYSDEC-approved Site Management Plan (SMP) developed for the Site and documents the annual groundwater monitoring event and site-wide inspection completed at the Site during the summer of 2020.

The Site is located in Dutchess County, New York and is identified as Tax Map Parcel (TMP) No. 131300-6061-43-752749-0000 on the City of Poughkeepsie Tax Map. The address for the Site is 202-204 Rinaldi Boulevard, Poughkeepsie, New York, 12601 and is accessed at the intersection of Pine Street and Rinaldi Boulevard. The approximate centroid of the Site is located at 41° 41' 40" N and 73° 56' 20" W. A vicinity location map of the Site is included as Figure 1. Figures showing the Zones (Zones 1 – 5) and boundaries of the Site, along with post-remediation soil cover system components and monitoring well locations, are provided as Figures 2A and 2B.

It should be noted that the Site identified for investigation and remediation was originally a 13.95-acre parcel; however, due to some design modifications during the course of construction that shifted the shoreline bulkheads further into the Hudson River, the City was required to obtain an additional approximately 0.09-acre strip of land from the State of New York Office of General Services (OGS) under a submerged land acquisition application process. Additionally, due to accessibility issues during construction (a steep slope on a rock outcrop near the northeast corner of the Site), the soil cover system could not be practically placed across the entire property, and thus, a portion of the property was left in its original state and is not included as part of the Site. Specifically, the "Site" includes the 14.04-acre parcel less 0.40-acre near the northeastern corner of the parcel, or a total of 13.64-acres. This exclusion area has been separated from the Site by a chain link fence to serve as a physical boundary.

The Site is bounded by the Shadows on the Hudson restaurant/catering facility and The Grandview banquet facility (formerly the City Sewage Treatment Plant (STP) site) to the north; Love/Effron, a major oil storage facility (MOSF), to the south; a concrete retaining wall associated with an elevated railroad corridor to the east; and the Hudson River to the west.

1.1 BRIEF SITE BACKGROUND

The Site has a long history of former industrial use based upon review of available Sanborn Mapping and other historical documents. Early Sanborn maps indicate that much of the DeLaval Site was under water and part of the Hudson River in the late 1800s, but also indicate the industrial development had begun on the Site by that time (at least as early as 1887). The DeLaval Separator Company reportedly started operations on the Site in 1890 and a review of aerial photographs indicated that operations likely ceased in the early 1960s, followed by the razing of many of the Site structures sometime between 1962 and 1967.

1.2 NATURE AND EXTENT OF CONTAMINATION PRIOR TO REMEDIATION

The following types of contaminants were identified on the DeLaval Site during the Site investigations and during the remedial action:

- Volatile organic compounds (VOCs)
- Semivolatile organic compounds (SVOCs)
- Polychlorinated biphenyls (PCBs)
- Heavy metals
- Asbestos-containing materials (ACMs) [discovered during remedial action phase only]

The following areas of concern (AOCs) were identified at the Site and the location of each is shown on Figures 2A and 2B:

- **AOC-1:** An area of petroleum-impacted soil and groundwater near the southern end of the Site that paralleled the Hudson River, approximately 0.8-acre in size. An industrial landfill/construction & demolition (C&D) debris disposal area that extended eastward of the petroleum-impacted soils to a bedrock outcrop along the east side of the Site was located above the petroleum-impacted area.
- **AOC-2/3:** An area of petroleum-impacted soil and groundwater in the central portion of the Site that paralleled the Hudson River, approximately 2.4-acres in size. An abandoned 14-inch oil pipeline and an approximately 400-gallon underground storage tank (UST) were also present in this AOC and likely contributed to the contamination in this area.

- **AOC-4:** An area adjacent to a former Paint Shop along the eastern border of the Site where solvent-like odors were observed during one of the investigations and several SVOCs were detected in the soil samples. Additional investigation in this area was unable to replicate these initial observations, so no remediation was completed in this area.
- **AOC-4A:** An area measuring approximately 32-feet wide by 50-feet long of petroleum contamination that was encountered adjacent to the western side of AOC-4 while investigating for the potential presence of additional oil pipelines extending southward on the Site from AOC-2/3 during the construction activities at the Site. Migration of the contamination in this area appeared to have been hindered by the presence of several subsurface concrete foundation walls and/or vaults.
- **AOC-5:** A small area of petroleum contamination encountered near the south end of the Site immediately adjacent to the eastern concrete retaining wall that runs parallel to the Site during the installation of Storm Manhole No. STMH-1. Sanborn mapping indicated the presence of a former “oil house” in this location which likely contributed to the contamination encountered in this area.
- **Shoreline:** Two small areas of petroleum contamination were encountered during the subgrade excavation for the revetment in Zone 2. Similarly, two small areas of petroleum contamination were also encountered in Zone 4 during the revetment subgrade excavation. The limits of the petroleum contamination were reached and removed as the excavations were advanced inland. No field evidence of petroleum contamination remained in these areas following the completion of the remedial action.

1.3 SUMMARY OF SITE REMEDY

The selected remedy for the Site included the following major components:

- Removal of grossly contaminated soils and other contaminated media;
- Construction of steel sheet pile (SSP) bulkheads and riprap revetment along the western property boundary (Hudson River shoreline);
- Placement of a soil cover system across the Site; and
- Installation of a post-remediation groundwater monitoring well network to facilitate periodic groundwater sampling;

The remedial activities completed at the Site were described in detail in CHA’s Final Engineering Report, dated December 18, 2013. In addition, the Site remedy required that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls (e.g. bulkheads, riprap revetment, soil cover system); (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3)

limit the use and development of the Site to commercial and passive recreational uses only. The environmental easement for the Site was executed by the Department on November 4, 2013 and recorded with the Dutchess County Clerk on November 27, 2013.

1.4 REMAINING CONTAMINATION

Following the completion of the AOC excavations, confirmatory samples were collected from both the bottom and side walls of the excavations to document the remaining contamination levels at the Site. The results were compared to both the Unrestricted Use and restricted Commercial Use Soil Cleanup Object (SCO) concentrations identified in 6 NYCRR Part 375. While the detailed results of the confirmatory samples is presented in the SMP, the following lists provides a brief overview of the remaining contamination at the Site at the time the remedial action was completed:

AOC-1:

- A total of twelve confirmatory samples were collected from AOC-1.
- No VOCs were detected in eleven of the confirmatory samples. Two VOCs were detected in one sample but were present at concentrations below the Part 375 Unrestricted Use SCOs.
- No SVOCs were detected in seven of the confirmatory samples. One or more of eight SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), were detected in the remaining confirmatory samples collected; however, all of these PAHs were detected at concentrations below the Unrestricted Use SCOs.
- No PCBs were detected in ten of the confirmatory samples. However, two PCB congeners, Aroclor-1254 and Aroclor-1260, were detected in two samples collected near the northern end of the excavation at concentrations in excess of the Unrestricted Use SCO for PCBs but below the restricted Commercial Use SCO.
- No pesticides or herbicides were detected in any of the confirmatory samples.
- Metals were detected in all of the confirmatory samples and all but one sample had at least one metal compound detected at a concentration in excess of the Part 375 Unrestricted Use SCO. The metals detected in excess of the unrestricted SCOs include chromium, copper, lead, nickel, and zinc. With the exception of copper and nickel, all metal concentrations were below the Commercial Use SCOs. However, the remedy for the project did not specifically target remediation for metals beyond encapsulation beneath a soil cover system, so the remaining metals at the Site were not unexpected.

AOC-2/3:

- A total of twelve confirmatory samples were collected from AOC-2/3.

- No VOCs were detected in ten of the confirmatory samples. One VOC was detected in each of the remaining two confirmatory samples; however, both compounds were detected at concentrations below the Part 375 Unrestricted Use SCOs.
- No SVOCs were detected in ten of the confirmatory samples. Several PAHs were detected in the remaining two confirmatory samples; however, most of the detections were present at concentrations below the Unrestricted Use SCOs. Only benzo(a)pyrene in Sample No. 10 (a side wall sample at the south end of the AOC) was detected at a concentration in excess of the Commercial Use SCO.
- PCBs were not detected in seven of the confirmatory samples. Two PCBs congeners, Aroclor-1254 and Aroclor-1260, were detected at a combined concentration below the Unrestricted Use SCO in three of the confirmatory samples. The Aroclor-1260 concentration in the two remaining confirmatory samples was in excess of the Unrestricted Use SCO, but well below the restricted Commercial Use SCO.
- No pesticides were detected in eleven of the confirmatory samples. A relatively low concentration of 4-4' DDT was detected in one bottom sample in AOC-2/3, below the Commercial Use SCO and protection of groundwater SCO.
- No herbicides were detected in any of the confirmatory samples.
- Seven metals were detected in excess of the unrestricted SCOs in one or more of the confirmatory samples. However, as previously indicated the remedy for the project did not specifically target remediation for metals.

AOC-4A

- Three confirmatory samples were collected from AOC-4A.
- No VOCs, pesticides, herbicides, or PCBs were detected in any of the confirmatory samples.
- Two SVOCs, specifically the PAHs fluoranthene and pyrene, were detected in one confirmatory sample at concentrations below the Unrestricted Use SCOs.
- Several heavy metals were detected in the confirmatory samples; however, only copper, lead and zinc were detected above the Unrestricted Use SCOs.

AOC-5

- Four confirmatory samples were collected from AOC-5.
- No VOCs, SVOCs, pesticides, herbicides, or PCBs were detected in any of the confirmatory samples.
- Several heavy metals were detected in the confirmatory at or above the Part 375 Unrestricted Use SCOs.

ACM Remaining:

- Two areas suspected of containing potential ACMs remain on the Site, including the eastern railway embankment along AOC-1 and an area along the waterfront north of the bulkhead associated with AOC-1. The eastern embankment represents a portion of the former AOC-1 landfill area that was not excavated as part of the remedy for the Site. While additional ACM-contaminated soils were removed based on the anticipated grading requirements of the future developer of the Site, soils beneath the demarcation barrier in this area may still contain ACM material. In addition to the horizontal demarcation barrier used to establish a vertical limit between the Site soils and soil cover system, a vertical demarcation barrier geotextile was placed along the eastern face of the removal area in AOC-1 to delineate the horizontal limits of the area removed during the course of the remedial construction.

2.0 INSTITUTIONAL / ENGINEERING CONTROLS (IC/EC)

2.1 IC/EC PLAN REQUIREMENTS AND COMPLIANCE STATUS

Institutional controls implemented at the Site in the form of an environmental easement, and more specifically the Site Management Plan, require periodic inspection of the engineering controls listed below, and an evaluation of Site use to confirm that exposure to remaining contamination is prevented and the development of the Site is limited to commercial and passive recreational uses only.

Engineering controls at the Site that are subject to periodic inspection consist of:

- Steel sheet pile bulkheads in Zones 1 and 3
- Riprap revetment along the western property boundary (the Hudson River shoreline) in Zones 2 and 4
- A soil cover system(s) across the Site
- The evaluation of nine groundwater monitoring wells (5 sampled and 4 gauged) during scheduled annual sampling events to verify they are in good condition and are being properly maintained to allow for periodic groundwater quality monitoring.
 - In accordance with the approved 2019 PRR and a letter from Mr. Gerald Pratt, of the NYSDEC, dated January 13, 2020, monitoring wells MW-8 and MW-9 were removed from the sampling set and were only gauged during the 2020 monitoring event.

The Institutional and Engineering Controls Certification Forms are included in Appendix A.

2.2 MONITORING PLAN ELEMENTS

2.2.1 Site-Wide Inspection

A site-wide inspection is performed annually. During the 2020 site-wide inspection, CHA evaluated:

- The current usage of the Site to verify that no changes have occurred since the prior inspection
- The soil cover system to determine whether there was visible damage (e.g. depression, areas of scour, vector holes, etc.) that necessitated repair to maintain the intended level of protection

2.2.2 Bulkhead System Inspection

Above Water Inspection

CHA observed the current condition of the bulkheads immediately following low tide conditions from a boat provided by the City of Poughkeepsie Fire Department. In accordance with the SMP, CHA observed the visible portions of the bulkhead for the following items:

- Leaking interlocks
- Evidence of significant/additional deflection beyond that at the time the construction was completed
- Deterioration (e.g. heavy corrosion, abrasion damage, failure of visible connections, etc.)
- Loss of toe protection stone

Ultrasonic Steel Thickness Inspection

As required in the SMP, ultrasonic steel thickness inspections are required once every 5 years following the NYSDEC's issuance of the Certification of Completion. The first of these inspections, the 5-year inspection, was performed during the 2020 monitoring event.

The thickness of the steel sheet piles was measured at representative points along the bulkheads using non-destructive testing methods (i.e. ultrasonic testing) along the splash zone for comparison to the original steel thickness at the time of installation. To complete this task, CHA retained Underwater Construction Corporation (UCC) to perform the ultrasonic testing utilizing diving techniques and while standing on the toe protection stone depending on water levels as the inspection progressed. The AZ-26 steel sheet piles were manufactured by Skyline Steel, LLC with a flange thickness of 0.512 inches (13.00 millimeters) and a web thickness of 0.480 inches (12.2 millimeters). UCC tested 49 locations at the splash zone along approximately 1,050 feet of steel sheet pile.

2.2.3 Groundwater Monitoring Activities

On July 16 and 17, 2020, CHA personnel visited the Site to conduct groundwater monitoring activities in accordance with the requirements of the SMP, including gauging, monitoring for the presence of light non-aqueous phase liquid (LNAPL), and groundwater sampling of the following monitoring wells: MW-1, MW-2, MW-4R, MW-5 and MW-6. In addition, wells MW-3, MW-7R, MW-8 and MW-9 were gauged and monitored for the presence of LNAPL but not sampled. The condition of each monitoring well as also observed.

Prior to conducting groundwater level measurements, a photoionization detector (PID) was used to measure the concentration, if any, of organic vapors in the headspace of each well (immediately after removing the well gripper plug). An electronic oil/water interface probe was then used to monitor for the presence of LNAPL and measure water levels at each of the above-referenced well locations. On the day of the well gauging activities, the time of high tide for the Hudson River at Poughkeepsie was reported as 10:30 A.M. Water level data were collected between 10:00 A.M and 3:30 P.M. At each location, the water level was measured from the top of the well riser.

Since well casings have not been installed, there is no top of well casing elevations, and therefore water level measurements were not converted to groundwater elevations. Once the permanent protective well casings are installed, the top of well casing elevations will be surveyed, and water level data collected during future groundwater monitoring events will be used to determine groundwater elevations as well as to develop a groundwater contour map. Based on the local topography and the Site's proximity to the Hudson River, groundwater flow direction across the Site is generally expected to be to the west, toward the river, although the western portion of the Site has been documented to be tidally influenced by the Hudson River.

Monitoring wells MW-1, MW-2, MW-4R, MW-5 and MW-6 were purged and sampled using a submersible pump and low flow/minimal drawdown methods. CHA monitored temperature, pH, specific conductance, dissolved oxygen, and turbidity at three to five-minute intervals during the purging process. Upon stabilization of these parameters, groundwater samples were collected in laboratory-provided, pre-preserved containers. Each well contains dedicated polyethylene tubing for sample collection. The submersible pump was decontaminated using a distilled water/non-phosphate detergent rinse followed by a distilled water rinse in between each well location.

For all wells, upon completion of sample collection, sample containers were labeled and stored in a rigid cooler with ice, pending delivery to the laboratory. Purge water was containerized in a 55-gallon drum which was labeled and stored on Site, pending waste characterization, profiling and off-site disposal arrangements.

For Quality Assurance/Quality Control purposes, one blind duplicate sample, identified as "CHA-1" was collected at well MW-4R. A trip blank prepared by the laboratory accompanied the sample containers from the time of their preparation at the laboratory until the samples were delivered to the laboratory.

Upon completion of field activities, CHA transported the samples under chain-of-custody protocol to Alpha Analytical Inc.'s (Alpha) service center in Albany, New York. The samples were then transported by Alpha to their laboratory in Westborough, Massachusetts for analysis. All groundwater samples and the field blank sample were analyzed for:

- Target Contaminant List (TCL) VOCs by Environmental Protection Agency (EPA) Method 8260;
- TCL SVOCs by EPA Method 8270;
- PCBs by EPA Method 8082; and,
- Resource Conservation and Recovery Act (RCRA) 8 metals via EPA Methods 6010 and 7174.

CHA notes that Alpha experienced a system disruption following receipt of the 2020 samples and subcontracted Eurofins TestAmerica to complete the VOC analyses.

2.2.4 Sub-Slab Soil Vapor Mitigation Systems

The Site currently remains undeveloped. There are no structures present on the Site, and therefore, there are no sub-slab depressurization systems (SSDSs) to inspect at this time.

3.0 MONITORING PLAN RESULTS

3.1 SITE-WIDE INSPECTION

CHA observations were documented on the Site-Wide Inspection form included in Appendix B. Photographs documenting the Site condition are included in Appendix C.

3.1.1 Inspection of Cover System

Overall, the soil cover system appeared to be in good condition during the 2020 monitoring event. Vegetation has grown to considerable height and should be monitored for damage to the cover system. At this time, no significant damage from vegetation was noted and the root systems are expected to aid in the stabilization of the Site surface. Evidence of vectors, including burrowing vectors, were not observed during the inspection. There was evidence of subsidence of the stone cover materials immediately behind the bulkheads (to a maximum distance of approximately six inches behind the Zone 3 bulkhead), but this condition appears similar to those observed during previous inspections. The stone products covering the remainder of the Site did not appear to be disturbed or have evidence of erosion/scour.

3.1.2 Inspection of Bulkheads

Above Water Inspection Results

CHA observed the current condition of the bulkheads immediately following low tide conditions from a boat provided by the City of Poughkeepsie. The above-water portions of the Zone 1 and Zone 3 bulkheads were observed to be in good condition with no evidence of leaks. The concrete collars around the outfalls were observed to be in good condition. Minor surface corrosion was observed in areas where the coating had failed.

On the landward side of the bulkheads, CHA observed an approximately four- to six-inch wide gap between the soil cover system and the concrete caps behind the northern two-thirds of the Zone 3 bulkhead due to settling and consolidation of the stone material. Additionally, separation of the precast concrete caps was previously noted during a site inspection conducted in November 2013 and the width of the gap has not changed since the previous inspection in July 2019. It was determined in 2013, through survey data and photographs, that no evidence of significant or progressive movement of the bulkhead was observed. The survey data indicated that the bulkhead movement was alternating between landward and waterward deflections, and that the limited

movement/deflection was anticipated given that the structure was constructed as a cantilevered bulkhead system.

As previously indicated, the gap observed behind the bulkhead is associated with the settlement/consolidation of material behind the bulkhead that is exaggerated by the difficulty in achieving appropriate compaction between the “bellies” of the sheet piles. The crack in the precast concrete cap is at a joint between two concrete cap and is due to the deflection of the bulkhead. While this movement needs to be considered in the future development of the Site (including a proposed sidewalk along the waterfront), the bulkhead’s ability to provide containment for residual contamination in Zone 3 appears uncompromised.

Non-Destructive Testing Results

While the water was turbid at the time of the inspection, no evidence of significant deterioration of the bulkheads was reported by UCC. Additionally, as previously indicated, UCC tested 49 locations at the splash zone along approximately 1,050 feet of steel sheet pile. The results are included in Appendix D and indicate that no appreciable level of thinning has occurred since the installation of the bulkheads since 2008. Specifically, the maximum rate of corrosion was calculated to be 0.0018-inches per year on the sheet pile flanges. At this rate of thinning, it would take approximately 86 years for the steel thickness to reach 65 percent of the original section thickness, although the original design had indicated that perforation of the sheet piles would most likely occur prior to structural failure. Finally, while minor surface corrosion was observed on some of the sheet piles where the coating has been lost, no appreciable pitting was observed on the waterside of the sheet piles, and therefore, no pit depths were measuring during the inspection.

3.1.3 Inspection of Riprap Revetment

All sections of riprap revetment stone appeared in good condition at the time of the sitewide inspection and there was no evidence of significant loss of material or scour.

3.1.4 Inspection of Monitoring Well Network

All monitoring wells were observed to be in generally good condition. The permanent protective well casings have not yet been installed. The City is in possession of the permanent casings and will install them following the completion of final grading of the Site during redevelopment. However, as indicated previously, the interim elevation of the well risers was not surveyed, and therefore, it is not possible to accurately compute groundwater elevations at each monitoring well or prepare a potentiometric surface contour map. CHA did observe a missing “j-plug” on well MW-1 during the Site inspection, but CHA had a replacement plug shipped to the City following

the inspection and the City installed it on September 15, 2020 and documented the installation with a photograph.

3.1.5 Sub-Slab Depressurization Systems

Currently, there are no structures on the property, and therefore, there are no such systems present on the Site. A review of Site sub-slab depressurization systems will be completed during future monitoring events following the construction of structures on the Site.

3.1.6 Other Observations During Site-Wide Inspection

Additional observations made at the Site during the 2020 monitoring event include:

1. **Weep Hole Drainage System:** The weep hole drainage system appeared operational and in good condition at the time of the Site inspection.
2. **Fencing:** The fencing system installed near the Site entrance and around the northeast bedrock outcropping utilized for delineating the limits of the environmental easement was observed to be in good condition. No repairs or modifications were recommended to the City.
3. **Other:** Other observations made during the Site visit included:
 - a. No new development has occurred at the Site since the previous inspection was conducted in July 2019.
 - b. There were no covers on the electrical vaults installed by the Developer and the annular spaces around the conduits installed in 2011 were not sealed. Therefore, some material around the vaults had sloughed into the structures. While this will make future installation of electrical services difficult, it does not appear to have impacted the Site remedy. No additional scour has been observed in the vicinity of these structures since repairs were made in 2015.
 - c. The Shadows One water taxi/boat, an intermodal container, a front-end loader and a truck trailer are stored in the northeast corner of the Site near the entrance to the Site. The storage of this equipment on the property is consistent with the ICs for the Site.

3.2 GROUNDWATER MONITORING RESULTS

No evidence of organic vapors, LNAPL, or petroleum sheen was observed at any of the monitoring well locations during the July 2020 monitoring event. This is consistent with results from previous monitoring events that commenced in 2015. Groundwater sampling logs are included in Appendix E. Specifically, Appendix E.1 includes the depth to groundwater measurements, Appendix E.2 provides a sampling summary table, and Appendix E.3 provides a summary of the field parameters documented during the well purging process.

Groundwater analytical results (detected compounds only) are summarized in Table 3-1 at the end of this section while the complete original laboratory data packages are included in Appendix F. In summary:

- **VOCs:** Only two VOCs were detected during the 2020 sampling event; a low concentration of trichloroethene in well MW-4R (upgradient of AOC-1) and o-xylene in well MW-5. The concentration of each parameter were detected below their respective NYSDEC Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values (Class GA).
- **SVOCs:** Multiple SVOCs were detected during the 2020 sampling event. Concentrations of the following six SVOCs were detected above their respective groundwater standards and guidance values: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.
- **PCBs:** Aroclor 1260 was the only PCB detected in the samples collected during the 2020 monitoring event and was only detected in well MW-5.
- **Metals:** The only metals detected above the applicable groundwater standard during the 2020 monitoring event was lead, which is more consistent with historical results at the Site and supports CHA's conjecture that the elevated metal concentrations during the 2019 sampling event were primarily attributable to the sampling method (e.g. bailers instead of submersible pumps for 2019) that resulted in the collection of samples with higher turbidity levels.

The analytical results for duplicate sample CHA-1 are relatively comparable to the analytical results for sample MW-4R, although the relative percent difference for the result for naphthalene was elevated (2.2 µg/L in duplicate sample CHA-1 and 0.26 µg/L in well sample MW-4R). Additionally, no VOCs were detected in the trip blank.

Corbett Industrial Cleaning Services, Inc. (Corbett) collected one drum of containerized purge water from the Site on September 22, 2020 for off-site disposal. A copy of the waste disposal documentation (Bill of Lading) is included in Appendix G.

3.3 GROUNDWATER MONITORING TRENDS

Groundwater analytical trends (detected compounds only) by year are summarized in Table 3-2 and the complete laboratory data package is included in Appendix F. In summary, CHA notes the following for each monitoring well:

- **MW-1:** The detected SVOCs and metals were at the lowest concentrations detected since 2016. VOCs remain absent or below the reporting level from this well and it appears that the PCBs detected in 2019 were anomalous due to the turbidity of the sample collected last year.

- **MW-2:** The detected SVOCs and metals were at the lowest concentrations detected since 2016. VOCs remain absent or below the reporting level from this well and PCBs have now been absent from this well since 2017.
- **MW-4/MW-4R:** The detected SVOCs and metals were at the lowest concentrations detected since 2015. A low concentration of trichloroethene continues to be the only VOC detected, but below the applicable groundwater standard, at this location since 2018 and PCBs continue to be absent from this well.
- **MW-5:** The SVOC and metal concentrations increased slightly between 2019 and 2020, but the results are consistent with historical results at this location. O-xylene was the only VOC detected in this well in 2020, but it was detected at a concentration below the applicable groundwater standard. Aroclor 1260 was detected in this well during the 2020 monitoring event, but the results were consistent with the concentrations detected previously in 2016 and 2017 in this well location.
- **MW-6:** The detected SVOCs in this well increased in concentration slightly in 2020 but are consistent with the historical data. The metal concentrations in well MW-6 were at the lowest levels detected since 2015 and PCBs and VOCs continue to be absent from this well since 2016.

Overall, the analytical results indicate stable concentrations of the contaminants of concern from 2015 to 2020.

Table 3-1 Analytical Summary Table

LOCATION			MW-1	MW-2	MW-4R	MW-5	MW-6
SAMPLING DATE	NY-TOGS-GA	Units	7/17/2020	7/17/2020	7/16/2020	7/16/2020	7/16/2020
Volatile Organics							
Trichloroethene	5	µg/l			0.65 J		
o-Xylene	5	µg/l				1.2	
Semivolatile Organics							
2-Methylnaphthalene				0.08 J	0.06 J	0.15	0.05 J
Acenaphthene	20	µg/l	0.11	0.04 J		0.2	0.32
Acenaphthylene					0.02 J	0.42	0.03 J
Anthracene	50	µg/l	0.03 J	0.08 J	0.1 J	0.58	0.04 J
Benzo(a)anthracene	0.002	µg/l	0.04 J	0.1 J		2.6	0.1 J
Benzo(a)pyrene	0	µg/l	0.03 J	0.04 J		3.3	0.1 J
Benzo(b)fluoranthene	0.002	µg/l	0.04 J	0.05 J		4.3	0.14
Benzo(ghi)perylene		µg/l	0.03 J	0.02 J		2.8	0.09 J
Benzo(k)fluoranthene	0.002	µg/l	0.02 J	0.02 J		1.5	0.04 J
Chrysene	0.002	µg/l	0.02 J	0.06 J		2.2	0.08
Dibenzo(a,h)anthracene		µg/l	0.06 J	0.06 J			0.07 J
Fluoranthene	50	µg/l	0.07 J	0.25	0.03 J	4.6	0.16
Fluorene	50	µg/l	0.03 J	0.07 J	0.03 J	0.32	0.03 J
Indeno(1,2,3-cd)pyrene	0.002	µg/l	0.07 J	0.07 J		3	0.13
Naphthalene	10	µg/l		0.41	0.29	0.31	0.15
Phenanthrene	50	µg/l	0.12	0.29	0.12	2.5	0.1
Pyrene	50	µg/l	0.07 J	0.2	0.02 J	4.2	0.24
Total Metals							
Arsenic, Total	25	µg/l	14	3	2 J	10	3 J
Barium, Total	1000	µg/l	443	70	63	173	47
Cadmium, Total	5	µg/l				1 J	
Chromium, Total	50	µg/l	19	4 J	23	42	
Lead, Total	25	µg/l	33	5 J	4 J	212	
Polychlorinated Biphenyls							
Aroclor 1260		µg/l				0.105	
Total PCBs	0.09	µg/l				0.105	

NOTES:

Samples were collected by CHA Consulting, Inc. on July 16 and 17, 2020 and analyzed by Alpha Analytical. Volatile Organics analysis was subcontracted to Eurofins TestAmerica due to system disruption at Alpha Analytical.

New York TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values criteria reflects all addendum to criteria through June 2004.

Values highlighted in blue indicate exceedance of TOGS 1.1.1 Ambient Water Quality Standards (Class GA)

J – Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

Table 3-2 Analytical Comparison Table

			MW-1						MW-2						MW-4	MW-4R					MW-5						MW-6																				
	NY-TOGS- GA	Units	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020	2015	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020																
Volatile Organics Compounds																																															
Acetone	50	µg/l		2.5	J			4.0	J				4.0	J					2.7	J				4.2	J				2.3	J			4.4	J													
Benzene	1	µg/l																			0.16	J																									
Ethyl Ether		µg/l	1.4	J																																											
o-Xylene	5	µg/l																			0.91	J				1.2			0.85	J																	
p/m-Xylene	5	µg/l		1.1	J						0.83	J									1.3	J							1.5	J																	
Tetrachloroethene	5	µg/l													0.7																																
Trichloroethene	5	µg/l															0.75	0.88	0.65	J																											
Toluene	5	µg/l		1.2	J						0.86	J									1.4	J							1.4	J																	
Semivolatile Organics																																															
2-Methylnaphthalene		µg/l						0.2					0.03	J	0.08	J				0.24		0.06	J		0.21	J			0.03	J	0.15		0.11	J			0.05	J									
Acenaphthene	20	µg/l		0.39	J		0.15	0.41	0.11				0.03	J	0.04	J				0.48				0.19	J			0.04	J	0.2		0.1			0.14	0.4	0.32										
Acenaphthylene		µg/l		0.38	J			0.58					0.24						0.35	0.02	J		0.49				0.12		0.42						0.03	J											
Anthracene	50	µg/l		0.76	J		0.04	J	0.74	0.03	J		0.18	0.08	J			0.06	J	1.3	0.01	J		0.68				0.12		0.58				0.02	J	0.04	J										
Benzo(a)anthracene	0.002	µg/l		1.6		0.02	J		2.2	0.04	J		1.2	0.1	J	0.11	J	0.11	0.11	3.8	0.02	J	0.12	J	1.8	1.7	0.12	0.48	2.6		0.06	J	0.05	J		0.04	J	0.1	J								
Benzo(a)pyrene	0	µg/l		1.5				2.3	0.03	J		0.14	J	0.17					3.4			0.12	J	1.7	1.9	0.13	0.51	3.3		0.05	J	0.05	J		0.03	J	0.1	J									
Benzo(b)fluoranthene	0.002	µg/l		2				3.1	0.04	J		0.19	J	0.23				1.7	0.05	J	0.19	J	0.11	0.11	4.1		0.02	2.6	2.6	0.18	0.65	4.3		0.06	J	0.06	J	0.07	J	0.04	J	0.14					
Benzo(ghi)perylene		µg/l		0.83	J			1.9	0.03	J		0.1	J					0.91	0.02	J	0.12	J			2.3		0.08	J	1.2		0.12	0.4	2.8				0.03	J	0.09	J							
Benzo(k)fluoranthene	0.002	µg/l		0.72	J			1	0.02	J		0.06	J	0.1	J			0.54	0.02	J	0.08	J		0.05	J	1.4		0.08	J	0.86	0.93	0.07	0.22	1.5				0.02	J	0.04	J						
Bis(2-ethylhexyl)phthalate	5	µg/l	3.1	B				1.9	J							1.3	J										1.7	J		4.9				4.5													
Butyl benzyl phthalate	50	µg/l																																													
Caprolactam		µg/l						100				45	160						130										230																		
Chrysene	0.002	µg/l		1.6				2.2	0.02	J		0.14	J	0.17				1.1	0.06	J	0.12	J	0.1	0.11	3.5		0.12	J	1.9	2	0.13	J	0.45	2.2		0.05	J	0.05	J		0.03	J	0.08				
Dibenzo(a,h)anthracene		µg/l		0.24	J			0.45	0.06	J				0.22	0.06	J		0.05	J		0.57				0.34	J			0.09	J							0.07	J									
Fluoranthene	50	µg/l		4.2			0.07	J	4.3	0.07	J		0.28					2	0.25		0.18	J		0.25	7.5	0.03	J	0.26	4.4			0.25	0.87	4.6		0.14	J			0.1	J	0.06	J	0.16			
Fluorene	50	µg/l		0.36	J			0.33	0.03	J				0.05	J	0.07	J				0.42	0.03	J		0.35	J			0.05	J	0.32			0.04	J			0.02	J	0.03	J						
Indeno(1,2,3-cd)pyrene	0.002	µg/l		0.97	J			2	0.07	J		0.11	J	0.1				1	0.07	J	0.1	J			2.5		0.1	1.4	1.6	0.11	0.43	3				0.02	J	0.13									
Naphthalene	10	µg/l		0.28	J			0.27			0.07	J			0.09	J	0.41				0.26	0.29			1.2			0.07	0.31			0.19	J			0.05	J	0.15									
Phenanthrene	50	µg/l		2.9			0.12	2.5	0.12		0.09	J			0.54	0.29		0.1		0.26	5.4	0.12	0.17	J	2.5			0.15	0.49	2.5			0.07	J			0.04	J	0.1								
Pyrene	50	µg/l		3.4			0.07	J	4		0.07	J		0.24				2	0.2	0.17	J			0.21	7	0.02	J	0.23	3.6		0.22	0.82	4.2		0.14	J			0.13	0.13	0.24						
Total Metals																																															
Arsenic, Total	25	µg/l	8	28.8		57	30.4	34.3	14			9.7	3	J	4.87	5.94	3			25		0.85	21.97	2	J			43.2	13	1.35	0.82	10			9.4	7	3.46	1.57	3	J							
Barium, Total	1000	µg/l	342	529			677	1149	443	77		88.5			151.9	166	70	107				79.21	255.9	63	46		726			70.5	38.7	173		43	69.9			70.3	49.1	47							
Cadmium, Total	5	µg/l		0.7	J		11	1.02	3.24				0.85	1.01				3	J	0.11	J	0.48					5.5	2	J	0.1	J		1	J		0.7	J	1	J	0.86	0.25						
Chromium, Total	50	µg/l	4.5	J			16	146	16.1	50.9	19	3.3	J	6	J	11	7.33	7.47	4	J	4.9	J	49	14.42	20.2	23	4.9	J	91	102	2.05	0.67	J	42		4	J	6.3	J	5	J	4.47	1.33				
Lead, Total	25	µg/l			55	1510	564	2050	33	10.9	61.7	34		116.9	119	5	J	16.4	4620	54.97	326.2	4	J	15.7		1180	390	18.6	4.25	212		4.3	J	57		74	63.5	15.9									
Mercury, Total	0.7	µg/l	0.06	J		0.1	J	1.52	0.13	J		0.82			0.08	J	0.13	J	0.07	J	0.13	J	0.21			0.14	J	4.65			0.78			0.09	J	2.85	0.83					0.07	J	0.2	1.03		
Selenium, Total	10	µg/l			55				5.48				64.5				1.83	J	3.12	J			3.5	J			3.96	J	17.4				284							27							
Silver, Total	50	µg/l					1.68	5.87												0.27	J						6.2	J																			
Polychlorinated Biphenyls																																															
Aroclor 1254		µg/l						0.12																																							
Aroclor 1260		µg/l						0.18				0.08	J														0.18	0.44					0.105			0.09											
PCBs, Total	0.09	µg/l						0.3				0.08	J														0.18	0.44					0.105			0.09											

NOTES:

Samples were collected by CHA Consulting, Inc. on July 16 and 17, 2020 and analyzed by Alpha Analytical, Inc. Volatile Organics analysis was subcontracted to Eurofins TestAmerica due to a power outage at Alpha Analytical.

In accordance with the approved 2019 PRR, monitoring wells MW-8 and MW-9 are not sampled as of 2020.

New York TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values criteria reflects all addendum to criteria through June 2004.

Values highlighted in blue indicate exceedance of TOGS 1.1.1 Ambient Water Quality Standards (Class GA).

J – Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration

4.0 SUMMARY, CONCLUSIONS & RECOMMENDATIONS

4.1 SUMMARY

The Site was observed to be in overall good condition at the time of the most recent sitewide inspection, conducted on July 16, 2020. Specific observations are noted below:

- Cracks and spalling were noted on the precast concrete caps installed on the top of the bulkheads along with separation of the cap joints and delamination of sealant placed in the joints.
- The stone material immediately behind the bulkheads (particularly Zone 3) has settled/consolidated.
- The wells still lack permanent protective casings; however, the casings will be installed after the Site is developed.

These observations have been previously reported and do not represent new conditions. No additional development of the Site has occurred since the last inspection in July 2019.

The groundwater analytical results from the July 2020 monitoring event indicate that there are several contaminants of concern detected at concentrations that exceed the applicable TOGS 1.1.1 groundwater standards and guidance values; however, the results are consistent with past monitoring events and show downward trends for some parameters. Additionally, the ultrasonic measurements collected for the bulkheads indicate that no significant level of thinning has occurred since their installation in 2008.

4.2 CONCLUSIONS

The Institutional and Engineering Controls Certification Forms are included in Appendix A, as previously indicated. Engineering controls, consisting of the sheet pile bulkheads, riprap revetment and soil cover system, were in place and functioning properly during the reporting period. These controls have been and continue to be effective in preventing exposure of remaining contaminants in soil and groundwater at the Site to the public. The SMP is being implemented and based on this review, the remedy continues to be protective of public health and/or the environment and compliant with the decision document.

Based on the removal of contaminated soil and other contaminant sources, and post-remediation soil sampling, as described in the Final Engineering Report for the Site, the remedy has achieved the remedial action objectives (RAOs) for soil. The results of groundwater sampling conducted in July 2020 indicate that the remedy continues to be effective in achieving the RAOs for

groundwater. Additionally, the ultrasonic measurements collected for the bulkheads indicate that no significant level of thinning has occurred since their installation in 2008.

Provided the Institutional Controls and Engineering Controls established for the Site remain in place and are maintained, it is expected that the remedy will continue to be effective in the protection of human health and the environment.

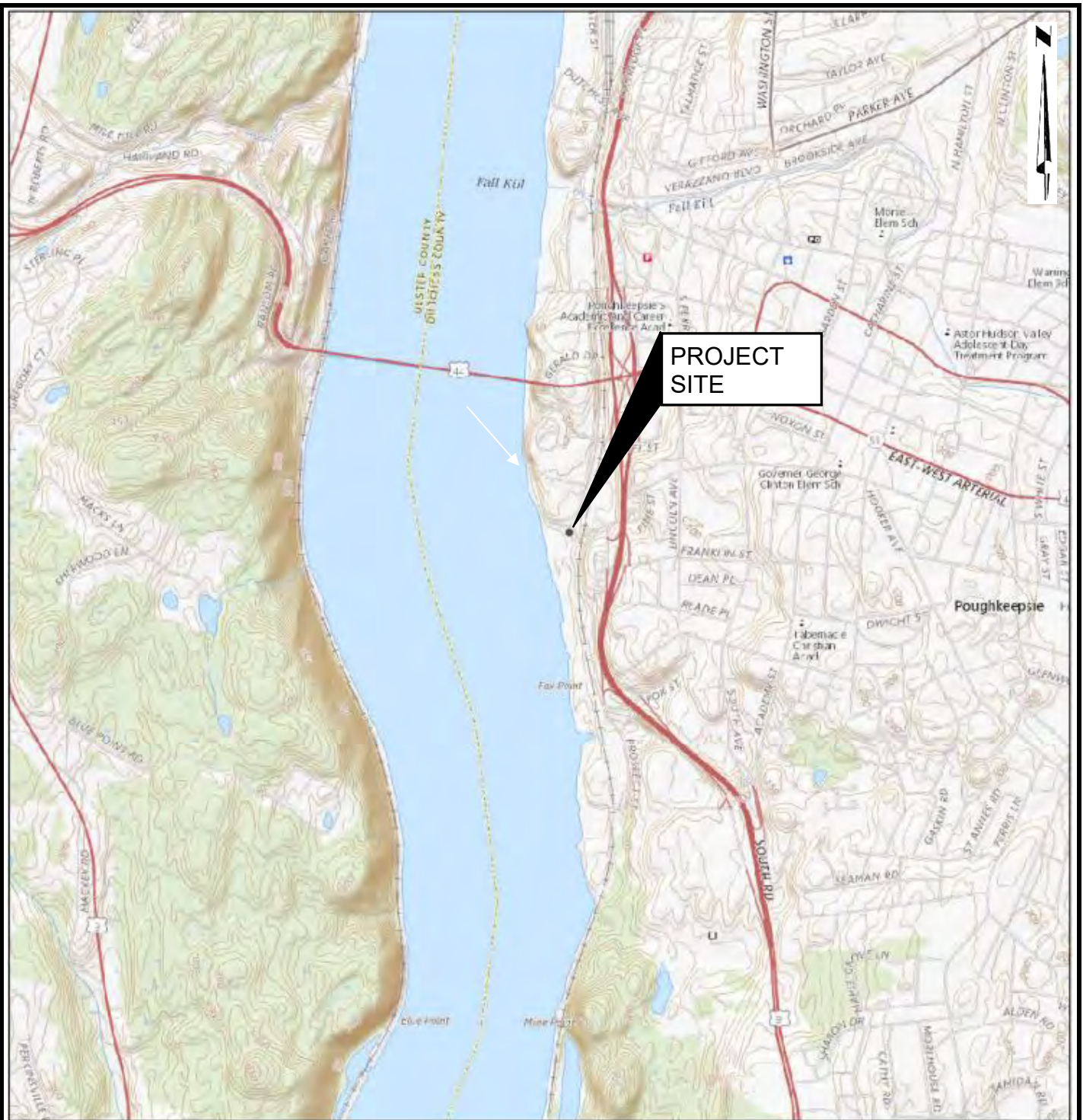
4.3 RECOMMENDATIONS

It is recommended that the current institutional and engineering controls in place at the Site remain in place, and the engineering controls continue to be inspected and monitored. No changes to the remedy or operation & maintenance plans are recommended at this time. However, given the continued trends over the past six years of groundwater monitoring, CHA recommends changes in environmental monitoring going forward, as follows:

- Eliminate the need to measure the vapor headspace in the monitoring wells given that no detectable vapor concentrations have been detected in the wells since monitoring commenced in 2015.
- Eliminate the need to use an oil-water interface probe to measure the thickness of LNAPL in the monitoring wells given that no detectable LNAPL levels have been detected in the wells since monitoring commenced in 2015. Rather a water-level meter capable of measuring the water level with a 0.01-foot accuracy is recommended for future well gauging activities.
- Eliminate analysis for VOCs in all wells as no VOCs have been detected in exceedance of standards or guidance values since monitoring started in 2015.

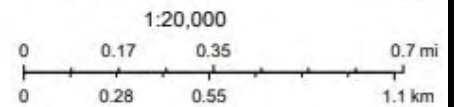
FIGURES

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Source: USGS The National Map



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SITE LOCATION

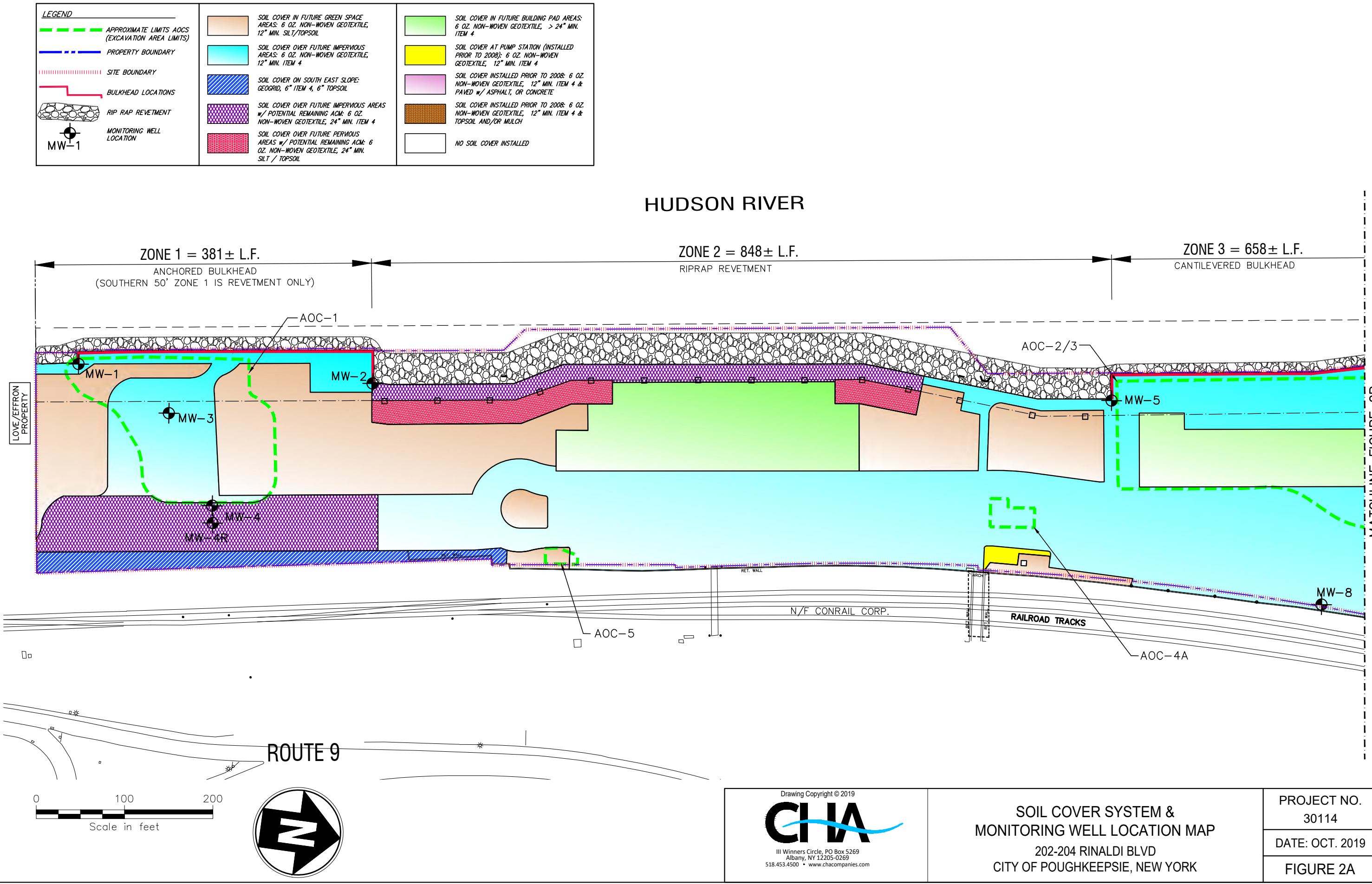
DELAVAL PROPERTY
202-204 RINALDI BOULEVARD
POUGHKEEPSIE, NEW YORK

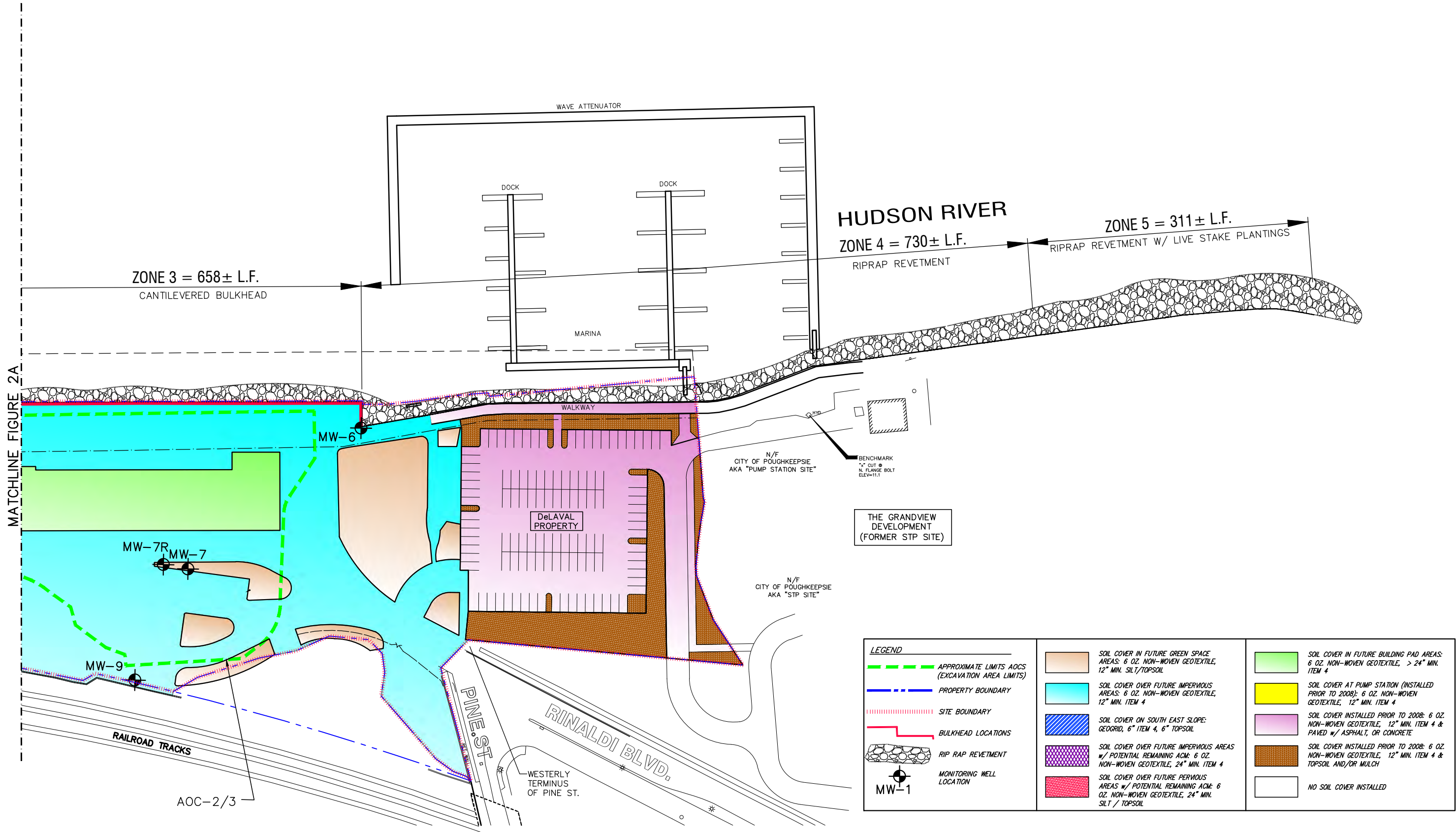
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030114.000

DATE: 09/2020

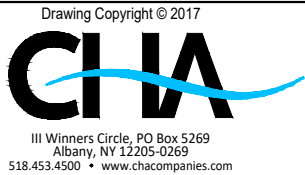
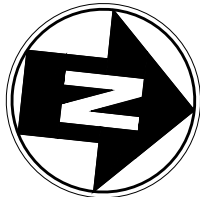
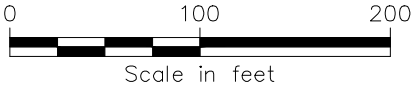
FIGURE 1

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LEGEND			
	APPROXIMATE LIMITS AOCs (EXCAVATION AREA LIMITS)		
	PROPERTY BOUNDARY		
	SITE BOUNDARY		
	BULKHEAD LOCATIONS		
	RIP RAP REVETMENT		
	MONITORING WELL LOCATION MW-1		
	SOIL COVER IN FUTURE GREEN SPACE AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. SILT/TOPSOIL		SOIL COVER IN FUTURE BUILDING PAD AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, > 24" MIN. ITEM 4
	SOIL COVER OVER FUTURE IMPERVIOUS AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4		SOIL COVER AT PUMP STATION (INSTALLED PRIOR TO 2008): 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4
	SOIL COVER ON SOUTH EAST SLOPE: GEOGRID, 6" ITEM 4, 6" TOPSOIL		SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & PAVED w/ ASPHALT, OR CONCRETE
	SOIL COVER OVER FUTURE IMPERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. ITEM 4		SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & TOPSOIL AND/OR MULCH
	SOIL COVER OVER FUTURE PERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. SILT / TOPSOIL		NO SOIL COVER INSTALLED



SOIL COVER SYSTEM &
MONITORING WELL LOCATION MAP
202-204 RINALDI BOULEVARD
CITY OF POUGHKEEPSIE, NEW YORK

PROJECT NO.
30114
DATE: OCT. 2019
FIGURE 2B

APPENDIX A

Institutional & Engineering Controls Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	B00190		
Site Name Hudson River Waterfront-DeLaval Property			
Site Address: 202-204 Rinaldi Blvd. Zip Code: 12601- City/Town: Poughkeepsie (C) County: Dutchess Site Acreage: 13.6			
Reporting Period: January 24, 2014 to July 25, 2015			
		YES	NO
1.	Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	☐	☒

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7.	Are all ICs/ECs in place and functioning as designed?	☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Description of Institutional ControlsParcel**131300-6061-43-752749**Owner

City of Poughkeepsie

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan
O&M Plan

Annual groundwater monitoring

Compliance with the Site Management Plan, including the Excavation Work Plan

Groundwater use restriction

Site use restricted to commercial usage

Description of Engineering ControlsParcel**131300-6061-43-752749**Engineering Control

Vapor Mitigation
Cover System
Subsurface Barriers
Fencing/Access Control

Soil Cover across the site

Two steel-sheet pile bulkheads along the Hudson River

Fencing along the northeast site boundary

Sub-slab depressurization systems for any buildings constructed on-site

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. B00190

Box 6

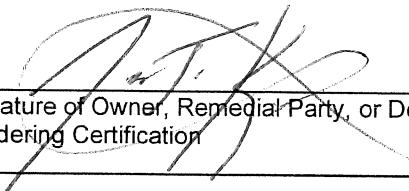
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I JOSEPH KANE at CITY OF POUGHKEEPSIE ENGINEERING
print name print business address

am certifying as DESIGNATED REPRESENTATIVE (FOR OWNER) (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

01/04/2021
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

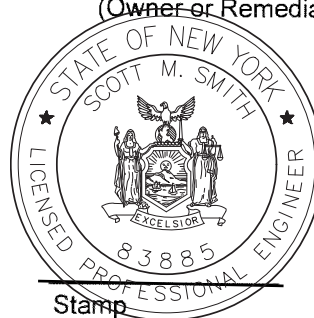
I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Scott M. Smith at 300 South Street, Syracuse, New York 13202,
print name print business address

am certifying as a Qualified Environmental Professional for the City of Poughkeepsie
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



Stamp
(Required for PE)

01/05/2021
Date

APPENDIX B

Sitewide Inspection Checklist



SITE-WIDE INSPECTION CHECKLIST

Report No. 006

Date: 07/16/2020

Time: 10:30 AM

Site Name: DeLaval ERP Site

NYSDEC Site No. B00190-3

Address: 202-204 Rinalidi Blvd, Poughkeepsie, NY, 12601

Project No. 030114.000

Inspector(s): K. Ehmann

Weather:

Type of Inspection: ☒ Routine ☐ Post Severe Condition

Temp.: Hi 81°F Low 68°F

Time Low Tide: 4:29 PM

SOIL COVER SYSTEM INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of erosion of cover soils/materials from Site surface.	☐	☒	☐	Stone material behind the bulkhead has subsided/consolidated - see photos
There is no evidence of depressions in cover materials.	☐	☒	☐	Same comment as above
There is no evidence of significant cracks in cover materials.	☐	☒	☐	Significant crack in the top of a bulkhead – unchanged from July 2019 inspection
There is no evidence of exposed or damaged demarcation barrier.	☒	☐	☐	
There is no evidence of vapors or odors emanating from the Site.	☒	☐	☐	

VEGETATIVE INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Vegetation is well established over greenspace areas.	☒	☐	☐	
There is no evidence of stressed vegetation.	☒	☐	☐	
There is no evidence of bare or thin vegetative cover.	☒	☐	☐	
There is no evidence of overgrowth or areas that need to be mowed.	☒	☐	☐	
There is no evidence of recent areas of excavation or disturbed areas.	☒	☐	☐	

VECTOR INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	☒	☐	☐	
There was no evidence of damage to the soil cover system due to vector activity.	☒	☐	☐	

DRAINAGE SYSTEM INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of erosion around drainage structures.	☒	☐	☐	
There is no evidence of settlement of drainage structures	☒	☐	☐	
Manhole covers present & in good condition.	☒	☐	☐	
There is no evidence of siltation, debris, or other restrictions in the manholes.	☒	☐	☐	
There are no exposed or damaged weep hole extension along retaining wall.	☒	☐	☐	
The backflow preventers in the 36-inch outfall manhole are present/functional.	☒	☐	☐	



SITE-WIDE INSPECTION CHECKLIST

Report No. 006

Date: 07/16/2020

Time: 10:30 AM

BULKHEAD INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of significant movement or deflections of bulkheads.	☐	☒	☐	Zone 3 bulkhead appears to be leaning toward the Hudson River, see photos.
There is no evidence of damage to the sheet piles through impacts from boats, ice, etc.	☒	☐	☐	
There is no evidence of leaks from interlocks.	☒	☐	☐	
There is no evidence of significant coating damage.	☒	☐	☐	
There is no evidence of significant corrosion.	☒	☐	☐	
There is no significant damage to the precast caps (e.g. cracks, spalling, etc.).	☐	☒	☐	Separation of precast caps in several location, significant in one location (see photos). Does not appear to have changed since the 2019 inspection.
There is no evidence of scour, erosion, cracks, or settlement behind the bulkheads.	☐	☒	☐	See comments above. Some subsidence observed, but unchanged from 2019.
There is no evidence of a loss of toe protection stone from the front of the bulkheads (to extent visible at surface).	☒	☐	☐	
There is no visible evidence of sheen in the vicinity of the bulkheads.	☒	☐	☐	
There is no evidence of significant damage to the stormwater outfalls or associated concrete collars.	☒	☐	☐	
There is no evidence of flow restriction at the outfalls	☒	☐	☐	
There is no evidence of sheen emanating from the outfalls	☒	☐	☐	

REVTMENT INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There are no large voids or evidence of significant stone loss in revetment areas.	☒	☐	☐	
There is no evidence of significant settlement of the revetment sections.	☒	☐	☐	
The concrete headwalls are in-place and in good condition.	☒	☐	☐	
There is no evidence of flow restriction at the outfalls	☒	☐	☐	
There is no evidence of sheen emanating from the outfalls	☒	☐	☐	

MONITORING WELL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The monitoring wells are in generally good condition.	☒	☐	☐	
Well caps are installed on the wells.	☒	☐	☐	J-Plug removed and next to MW-3, missing for MW-1, but replaced.
Locks present and secured.	☐	☐	☒	No Locks



SITE-WIDE INSPECTION CHECKLIST

Report No. 006

Date: 07/16/2020

Time: 10:30 AM

SITE ACCESSIBILITY INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Site accessible and passable.	☒	☐	☐	

INSTITUTIONAL CONTROL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The Site continues to be utilized for commercial and passive recreational uses only.	☒	☐	☐	
There is no evidence of groundwater extraction and/or use on Site.	☒	☐	☐	

ADDITIONAL NOTES & OBSERVATIONS

Separation of the precast concrete caps, particularly along Zone 3, is similar to previous inspections and does not appear to have progressed further. Angling of the Zone bulkhead toward the Hudson River appears to be similar to previous inspections. Additionally, the settling/consolidation of stone material behind the Zone 3 bulkhead appears relatively unchanged from previous site inspections.

A cap/j-plug was missing from well MW-1 but was replaced by the City following the inspection.

Signature: 

Total Inspection Time: 1 hr

APPENDIX C

Site Photographs



Photograph 1. Site overview facing north.



Photograph 2. Site overview facing south.



Photograph 3. Looking east from the subject site.



Photograph 4. Looking south along the bulkhead.



SITE PHOTOGRAPHS
 DeLaval ERP Site
 202-204 RINALDI BLVD.
 CITY OF POUGHKEEPSIE
 COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
 030114.000

PHOTOGRAPHS
 TAKEN: 07/16/2020



Photograph 5. Southern portion of the site, facing southwest.



Photograph 6. Shadows One water taxi/boat, intermodal container and truck trailer stored on subject site.



SITE PHOTOGRAPHS
 DeLaval ERP Site
 202-204 RINALDI BLVD.
 CITY OF POUGHKEEPSIE
 COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
 030114.000

PHOTOGRAPHS
 TAKEN: 07/16/2020



Photograph 7. Zone 1 Bulkhead.



Photograph 8. Storm drainpipe discharging to the Hudson River.



Photograph 9. Riprap stone along Zone 2.



Photograph 10. Zone 3 Bulkhead appears to be leaning toward the Hudson River.



SITE PHOTOGRAPHS
 DeLaval ERP Site
 202-204 RINALDI BLVD.
 CITY OF POUGHKEEPSIE
 COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
 030114.000

PHOTOGRAPHS
 TAKEN: 07/16/2020

APPENDIX D

Bulkhead Ultrasonic Thickness Measurements

Appendix D
Bulkhead Ultrasonic Thickness Measurements

Location No.	Bulkhead Zone No.	Location Description	Flange or Web Test Point	Nominal Thickness	Thickness (inches)	Thinning (inches)	Time in Service (Years)	Thinning Rate (inches/Year)
1	3	Starting at North End	Flange	0.512	0.500	0.012	12	0.0010
2	3	20 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
3	3	40 feet South of NW Corner	Flange	0.512	0.510	0.002	12	0.0002
4	3	60 feet South of NW Corner	Web	0.480	0.475	0.005	12	0.0004
5	3	80 feet South of NW Corner	Flange	0.512	0.495	0.017	12	0.0014
6	3	100 feet South of NW Corner	Flange	0.512	0.490	0.022	12	0.0018
7	3	120 feet South of NW Corner	Flange	0.512	0.545	NT	12	
8	3	140 feet South of NW Corner	Web	0.480	0.480	NT	12	
9	3	160 feet South of NW Corner	Flange	0.512	0.495	0.017	12	0.0014
10	3	180 feet South of NW Corner	Flange	0.512	0.515	NT	12	
11	3	200 feet South of NW Corner	Flange	0.512	0.505	0.007	12	0.0006
12	3	220 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
13	3	240 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
14	3	260 feet South of NW Corner	Flange	0.512	0.525	NT	12	
15	3	280 feet South of NW Corner	Web	0.480	0.485	NT	12	
16	3	300 feet South of NW Corner	Flange	0.512	0.495	0.017	12	0.0014
17	3	320 feet South of NW Corner	Flange	0.512	0.515	NT	12	
18	3	340 feet South of NW Corner	Flange	0.512	0.530	NT	12	
19	3	360 feet South of NW Corner	Flange	0.512	0.505	0.007	12	0.0006
20	3	380 feet South of NW Corner	Web	0.480	0.485	NT	12	
21	3	400 feet South of NW Corner	Flange	0.512	0.515	NT	12	
22	3	420 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
23	3	440 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
24	3	460 feet South of NW Corner	Flange	0.512	0.495	0.017	12	0.0014
25	3	480 feet South of NW Corner	Flange	0.512	0.505	0.007	12	0.0006
26	3	500 feet South of NW Corner	Flange	0.512	0.510	0.002	12	0.0002
27	3	520 feet South of NW Corner	Flange	0.512	0.510	0.002	12	0.0002
28	1	Starting at NE Corner on Return Wall	Flange	0.512	0.495	0.017	12	0.0014
29	1	20 feet West of of NE Corner	Flange	0.512	0.490	0.022	12	0.0018
30	1	Starting NW Corner of Zone 1 Bulkhead	Flange	0.512	0.505	0.007	12	0.0006
31	1	20 feet South of NW Corner	Flange	0.512	0.515	NT	12	
32	1	40 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
33	1	60 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
34	1	80 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
35	1	100 feet South of NW Corner	Web	0.480	0.480	NT	12	
36	1	120 feet South of NW Corner	Web	0.480	0.480	NT	12	
37	1	140 feet South of NW Corner	Flange	0.512	0.505	0.007	12	0.0006
38	1	160 feet South of NW Corner	Flange	0.512	0.490	0.022	12	0.0018
39	1	180 feet South of NW Corner	Web	0.480	0.480	NT	12	
40	1	200 feet South of NW Corner	Web	0.480	0.485	NT	12	
41	1	220 feet South of NW Corner	Flange	0.512	0.500	0.012	12	0.0010
42	1	240 feet South of NW Corner	Flange	0.512	0.515	NT	12	
43	1	260 feet South of NW Corner	Flange	0.512	0.525	NT	12	
44	1	280 feet South of NW Corner	Flange	0.512	0.505	0.007	12	0.0006
45	1	300 feet South of NW Corner	Web	0.480	0.475	0.005	12	0.0004
46	3	Starting at NE Corner on Return Wall	Flange	0.512	0.510	0.002	12	0.0002
47	3	10 feet West of of NE Corner	Flange	0.512	0.500	0.012	12	0.0010
48	3	15 feet South of NW Corner	Web	0.480	0.485	NT	12	
49	3	45 feet South of NW Corner	Flange	0.512	0.490	0.022	12	0.0018

Note:

NT = No thinning detected.

APPENDIX E

Groundwater Sampling Logs

Appendix E.1

Depth to Groundwater Measurements

DeLaval Property - July 2020 Groundwater Sampling Event

CHA Project No.: 30114

Well ID	Measuring Point	Measurement Time	Depth to Water	Comments
MW-1	TOR	10:33	6.11	No free product
MW-2	TOR	9:37	6.46	No free product
MW-3	TOR	14:08	10.42	No free product
MW-4R	TOR	13:59	19.44	No free product
MW-5	TOR	13:31	6.73	No free product
MW-6	TOR	11:01	6.65	No free product
MW-7	TOR	10:52	10.79	No free product
MW-8	TOR	13:18	12.07	No free product
MW-9	TOR	10:48	10.81	No free product

Appendix E.2
Sampling Summary

DeLaval Property - July 2020 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Sampling Method	Sampling Time	Sample Analyses	Number of Bottles	QA/QC	QA/QC Sample ID	QA/QC Sample Time
MW-1	Submersible	11:20	VOCs, SVOCs, PCBs, Metals	8	no		
MW-2	Submersible	10:05	VOCs, SVOCs, PCBs, Metals	8	no		
MW-4R	Submersible	14:15	VOCs, SVOCs, PCBs, Metals	8	yes	CHA-1	12:00
MW-5	Submersible	15:25	VOCs, SVOCs, PCBs, Metals	8	no		
MW-6	Submersible	12:05	VOCs, SVOCs, PCBs, Metals	8	no		

Appendix E.3

Sample Purging Summary

DeLaval Property - July 2020 Groundwater Sampling Event

CHA Project No.: 30114

Well ID	Method of Purging	Time	ORP/Eh (mV)	pH	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)
MW-1	Submersible	10:44	-198	9.1	0.811	529	0.0	20.58
		10:46	-181	9	0.822	226	13.45	20.56
		10:50	-169	8.9	0.828	103	9.45	20.68
		10:52	-169	8.9	0.838	73.4	18.7	20.14
		11:09	-162	8.8	0.827	373	0.75	21.23
		11:12	-161	8.9	0.818	197	0.0	21.13
		11:16	-162	8.8	0.836	124	0.0	21.33
		11:19	-164	8.9	0.838	102	0.0	21.4
MW-2	Submersible	9:47	44	9	0.802	29	2.31	17.62
		9:50	59	8.9	0.812	18.5	0.96	17.72
		9:54	61	8.8	0.824	10.1	0.29	17.71
		9:57	61	8.7	0.83	6.44	0.05	17.8
		10:00	60	8.7	0.827	5.55	0.0	17.75
		10:03	61	8.7	0.835	4.25	0.0	17.82
MW-4R	Submersible	14:07	123	7.8	2.18	295	9.98	15.06
		14:10	127	7.8	2.18	66.6	9.83	15.16
		14:13	128	7.8	2.16	29	9.97	14.6
MW-5	Submersible	13:25	-78	8.5	0.371	152	0.42	20.13
		13:28	-74	8.4	0.36	165	0.35	21.2
		13:31	-56	8.2	0.345	179	2.32	22.01
		13:34	-36	8.2	0.342	133	4.63	22.34
		13:37	-15	8.2	0.353	62.5	8.48	22.81
MW-6	Submersible	11:21	27	8.1	0.397	1000	1.56	20.88
		11:29	-6	8.1	0.413	902	0.43	21.11
		11:37	-20	8.2	0.415	360	1.73	20.77
		11:40	-5	8.2	0.421	44.8	1.56	19.58
		11:43	1	8.1	0.414	14.12	3.4	20.28
		11:48	23	8	0.411	5.92	1.45	20.82
		11:53	12	7.9	0.412	6.7	0.3	20.98
		11:57	9	7.8	0.413	3.15	0.12	20.89
		12:01	8	7.8	0.412	1.6	0.12	21.15

APPENDIX F

Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2030528
Client:	CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202
ATTN:	Karyn Ehmann
Phone:	(315) 257-7250
Project Name:	DELAVAL
Project Number:	30114.1006.44200
Report Date:	08/11/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2030528-01	MW-6	WATER	POUGHKEEPSIE, NY	07/16/20 12:05	07/17/20
L2030528-02	MW-4R	WATER	POUGHKEEPSIE, NY	07/16/20 14:15	07/17/20
L2030528-03	CHA-1	WATER	POUGHKEEPSIE, NY	07/16/20 12:00	07/17/20
L2030528-04	MW5	WATER	POUGHKEEPSIE, NY	07/16/20 15:25	07/17/20
L2030528-05	MW2	WATER	POUGHKEEPSIE, NY	07/17/20 10:05	07/17/20
L2030528-06	MW1	WATER	POUGHKEEPSIE, NY	07/17/20 11:20	07/17/20
L2030528-07	WC1	WATER	POUGHKEEPSIE, NY	07/17/20 12:00	07/17/20
L2030528-08	TRIP BLANK	WATER	POUGHKEEPSIE, NY	07/16/20 00:00	07/20/20

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Volatile Organics was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2030528-08: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was analyzed.

Semivolatile Organics by SIM

L2030528-07: The initial calibration utilized a quadratic fit for pentachlorophenol.

The WG1395431-3 LCSD recovery, associated with L2030528-01 through -07, was above the acceptance criteria for naphthalene (185%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported on L2030528-01 through -05.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 08/11/20

ORGANICS

SEMIVOLATILES

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 13:30
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	82		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 00:32
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.32		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.16		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.15		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.10	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.10	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.14		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.08	J	ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.09	J	ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.10		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.07	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	0.24		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	161	Q	10-120
4-Terphenyl-d14	118		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01 RE
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 10:57
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.21		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.08	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	0.12		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01 RE
 Client ID: MW-6
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
 Date Received: 07/17/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	73		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 13:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	81		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 00:52
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.29		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.01	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	115		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02 RE
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 12:00
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.26		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02 RE
 Client ID: MW-4R
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
 Date Received: 07/17/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	89		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 14:17
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	70		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 01:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	2.2		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.05	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.39		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	123	Q	10-120
4-Terphenyl-d14	101		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03 RE
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 12:22
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03 RE
 Client ID: CHA-1
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
 Date Received: 07/17/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	31		23-120
2-Fluorobiphenyl	42		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 14:40
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	74		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 01:33
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.20		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	4.6		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.31		ug/l	0.10	0.05	1
Benzo(a)anthracene	2.6		ug/l	0.10	0.02	1
Benzo(a)pyrene	3.3		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	4.3		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	1.5		ug/l	0.10	0.01	1
Chrysene	2.2		ug/l	0.10	0.01	1
Acenaphthylene	0.42		ug/l	0.10	0.01	1
Anthracene	0.58		ug/l	0.10	0.01	1
Benzo(ghi)perylene	2.8		ug/l	0.10	0.01	1
Fluorene	0.32		ug/l	0.10	0.01	1
Phenanthrene	2.5		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.66		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	3.0		ug/l	0.10	0.01	1
Pyrene	4.2		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.15		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	105		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04 RE
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 12:43
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	2.3		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.15		ug/l	0.10	0.05	1
Benzo(a)anthracene	1.6		ug/l	0.10	0.02	1
Benzo(a)pyrene	2.0		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	2.4		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.79		ug/l	0.10	0.01	1
Chrysene	1.4		ug/l	0.10	0.01	1
Acenaphthylene	0.24		ug/l	0.10	0.01	1
Anthracene	0.37		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.6		ug/l	0.10	0.01	1
Fluorene	0.23		ug/l	0.10	0.01	1
Phenanthrene	1.8		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.28		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.5		ug/l	0.10	0.01	1
Pyrene	2.4		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04 RE
 Client ID: MW5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
 Date Received: 07/17/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	64		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 15:03
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	80		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 01:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.25		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.41		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.10	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.07	J	ug/l	0.10	0.01	1
Phenanthrene	0.29		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	0.20		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	131	Q	10-120
4-Terphenyl-d14	115		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05 RE
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 13:04
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05 RE
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	30		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	100		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 15:27
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/01/20 02:13
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.11		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	0.07	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	152	Q	10-120
4-Terphenyl-d14	109		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/31/20 15:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/11/20 16:46
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.08	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.20		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.06	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.12		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.17		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Chrysene	0.11		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.10		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.13		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.10		ug/l	0.10	0.01	1
Pyrene	0.21		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.02	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.09	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	83		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/30/20 15:05
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1395398-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/30/20 15:05
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1395398-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	65		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/30/20 16:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1395431-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 07/30/20 16:45
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/21/20 10:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1395431-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	100		41-149

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 09:13
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1396515-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/07/20 09:13
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/06/20 18:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1396515-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	98		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1395398-2 WG1395398-3								
Bis(2-chloroethyl)ether	58		59		40-140	2		30
3,3'-Dichlorobenzidine	55		68		40-140	21		30
2,4-Dinitrotoluene	87		88		48-143	1		30
2,6-Dinitrotoluene	85		89		40-140	5		30
4-Chlorophenyl phenyl ether	69		72		40-140	4		30
4-Bromophenyl phenyl ether	73		77		40-140	5		30
Bis(2-chloroisopropyl)ether	67		69		40-140	3		30
Bis(2-chloroethoxy)methane	57		61		40-140	7		30
Hexachlorocyclopentadiene	67		70		40-140	4		30
Isophorone	57		62		40-140	8		30
Nitrobenzene	65		68		40-140	5		30
NDPA/DPA	70		74		40-140	6		30
n-Nitrosodi-n-propylamine	59		62		29-132	5		30
Bis(2-ethylhexyl)phthalate	77		85		40-140	10		30
Butyl benzyl phthalate	78		86		40-140	10		30
Di-n-butylphthalate	70		76		40-140	8		30
Di-n-octylphthalate	78		87		40-140	11		30
Diethyl phthalate	78		79		40-140	1		30
Dimethyl phthalate	75		76		40-140	1		30
Biphenyl	70		74		40-140	6		30
4-Chloroaniline	53		52		40-140	2		30
2-Nitroaniline	77		82		52-143	6		30
3-Nitroaniline	71		71		25-145	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	Qual
Semivolatle Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1395398-2 WG1395398-3								
4-Nitroaniline	64		67		51-143	5	30	
Dibenzofuran	66		69		40-140	4	30	
1,2,4,5-Tetrachlorobenzene	69		73		2-134	6	30	
Acetophenone	58		61		39-129	5	30	
2,4,6-Trichlorophenol	71		74		30-130	4	30	
p-Chloro-m-cresol	69		70		23-97	1	30	
2-Chlorophenol	62		63		27-123	2	30	
2,4-Dichlorophenol	66		70		30-130	6	30	
2,4-Dimethylphenol	49		51		30-130	4	30	
2-Nitrophenol	75		80		30-130	6	30	
4-Nitrophenol	68		70		10-80	3	30	
2,4-Dinitrophenol	84		73		20-130	14	30	
4,6-Dinitro-o-cresol	101		104		20-164	3	30	
Phenol	44		47		12-110	7	30	
2-Methylphenol	57		61		30-130	7	30	
3-Methylphenol/4-Methylphenol	64		68		30-130	6	30	
2,4,5-Trichlorophenol	80		82		30-130	2	30	
Carbazole	71		74		55-144	4	30	
Atrazine	83		89		40-140	7	30	
Benzaldehyde	53		53		40-140	0	30	
Caprolactam	44		42		10-130	5	30	
2,3,4,6-Tetrachlorophenol	74		75		40-140	1	30	



Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1395398-2 WG1395398-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
2-Fluorophenol	54		55		21-120			
Phenol-d6	44		47		10-120			
Nitrobenzene-d5	70		74		23-120			
2-Fluorobiphenyl	64		68		15-120			
2,4,6-Tribromophenol	75		81		10-120			
4-Terphenyl-d14	72		78		41-149			



Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1395431-2 WG1395431-3								
Acenaphthene	72		69		40-140	4		40
2-Chloronaphthalene	80		77		40-140	4		40
Fluoranthene	86		83		40-140	4		40
Hexachlorobutadiene	87		83		40-140	5		40
Naphthalene	74		185	Q	40-140	86	Q	40
Benzo(a)anthracene	76		72		40-140	5		40
Benzo(a)pyrene	85		79		40-140	7		40
Benzo(b)fluoranthene	77		74		40-140	4		40
Benzo(k)fluoranthene	91		83		40-140	9		40
Chrysene	81		76		40-140	6		40
Acenaphthylene	88		87		40-140	1		40
Anthracene	77		73		40-140	5		40
Benzo(ghi)perylene	87		82		40-140	6		40
Fluorene	78		75		40-140	4		40
Phenanthrene	72		70		40-140	3		40
Dibenzo(a,h)anthracene	88		82		40-140	7		40
Indeno(1,2,3-cd)pyrene	85		78		40-140	9		40
Pyrene	88		85		40-140	3		40
2-Methylnaphthalene	74		78		40-140	5		40
Pentachlorophenol	58		52		40-140	11		40
Hexachlorobenzene	81		82		40-140	1		40
Hexachloroethane	68		67		40-140	1		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1395431-2 WG1395431-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
2-Fluorophenol	49		50		21-120			
Phenol-d6	45		44		10-120			
Nitrobenzene-d5	76		75		23-120			
2-Fluorobiphenyl	83		82		15-120			
2,4,6-Tribromophenol	95		90		10-120			
4-Terphenyl-d14	110		104		41-149			



Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1396515-2 WG1396515-3								
Acenaphthene	62		83		40-140	29		40
2-Chloronaphthalene	59		58		40-140	2		40
Fluoranthene	60		83		40-140	32		40
Hexachlorobutadiene	53		57		40-140	7		40
Naphthalene	56		64		40-140	13		40
Benzo(a)anthracene	62		78		40-140	23		40
Benzo(a)pyrene	68		79		40-140	15		40
Benzo(b)fluoranthene	64		77		40-140	18		40
Benzo(k)fluoranthene	77		77		40-140	0		40
Chrysene	62		71		40-140	14		40
Acenaphthylene	66		81		40-140	20		40
Anthracene	62		71		40-140	14		40
Benzo(ghi)perylene	73		74		40-140	1		40
Fluorene	62		87		40-140	34		40
Phenanthrene	62		70		40-140	12		40
Dibenzo(a,h)anthracene	69		70		40-140	1		40
Indeno(1,2,3-cd)pyrene	65		75		40-140	14		40
Pyrene	54		80		40-140	39		40
2-Methylnaphthalene	58		71		40-140	20		40
Pentachlorophenol	48		86		40-140	57	Q	40
Hexachlorobenzene	71		90		40-140	24		40
Hexachloroethane	50		59		40-140	17		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1396515-2 WG1396515-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				Criteria
2-Fluorophenol	35		46					21-120
Phenol-d6	27		40					10-120
Nitrobenzene-d5	50		66					23-120
2-Fluorobiphenyl	61		62					15-120
2,4,6-Tribromophenol	81		127	Q				10-120
4-Terphenyl-d14	64		97					41-149



PCBS

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 13:39
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 13:47
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 13:55
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 14:02
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	0.105		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.105		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 14:10
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 14:17
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/01/20 14:25
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/01/20 12:23
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/21/20 10:19
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1395750-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1395750-2 WG1395750-3								
Aroclor 1016	85		77		40-140	10	50	A
Aroclor 1260	80		72		40-140	10	50	A

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		86		30-150	A
Decachlorobiphenyl	93		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		74		30-150	B
Decachlorobiphenyl	84		75		30-150	B



METALS

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-01
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.003	J	mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Barium, Total	0.047		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Lead, Total	ND		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:07	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 22:44	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-02
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 14:15
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.002	J	mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Barium, Total	0.063		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Chromium, Total	0.023		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Lead, Total	0.004	J	mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 18:58	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 22:48	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Barium, Total	0.063		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Chromium, Total	0.017		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Lead, Total	ND		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:09	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 22:53	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-04
Client ID: MW5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/20 15:25
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.010		mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Barium, Total	0.173		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Cadmium, Total	0.001	J	mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Chromium, Total	0.042		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Lead, Total	0.212		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:11	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 22:58	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-05
Client ID: MW2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 10:05
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.003	J	mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Barium, Total	0.070		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Chromium, Total	0.004	J	mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Lead, Total	0.005	J	mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:14	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 23:03	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-06
Client ID: MW1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 11:20
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.014		mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Barium, Total	0.442		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Chromium, Total	0.019		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Lead, Total	0.033		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:16	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 23:07	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

SAMPLE RESULTS

Lab ID: L2030528-07
Client ID: WC1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/17/20 12:00
Date Received: 07/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.011		mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Barium, Total	0.222		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Chromium, Total	0.019		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Lead, Total	0.090		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 19:23	EPA 7470A	1,7470A	AL
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 23:12	EPA 3005A	1,6010D	BV



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1394445-1										
Arsenic, Total	ND		mg/l	0.005	0.002	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Barium, Total	ND		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	0.002	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Lead, Total	ND		mg/l	0.010	0.003	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Selenium, Total	ND		mg/l	0.010	0.004	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	07/23/20 19:27	07/25/20 21:38	1,6010D	BV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1394570-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/24/20 12:37	07/24/20 18:49	1,7470A	AL

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1394445-2									
Arsenic, Total	110		-		80-120		-		
Barium, Total	102		-		80-120		-		
Cadmium, Total	108		-		80-120		-		
Chromium, Total	103		-		80-120		-		
Lead, Total	106		-		80-120		-		
Selenium, Total	107		-		80-120		-		
Silver, Total	104		-		80-120		-		
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1394570-2									
Mercury, Total	110		-		80-120		-		



Matrix Spike Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1394445-3 QC Sample: L2030478-01 Client ID: MS Sample										
Arsenic, Total	ND	0.12	0.137	114	-	-	-	75-125	-	20
Barium, Total	0.025	2	2.06	102	-	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.054	107	-	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.203	102	-	-	-	75-125	-	20
Lead, Total	ND	0.51	0.541	106	-	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.131	109	-	-	-	75-125	-	20
Silver, Total	ND	0.05	0.051	102	-	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1394570-3 QC Sample: L2030528-02 Client ID: MW-4R										
Mercury, Total	ND	0.005	0.00532	106	-	-	-	75-125	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1394570-4 QC Sample: L2030528-02 Client ID: MW-4R						
Mercury, Total	ND	ND	mg/l	NC		20



Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information	
Cooler	Custody Seal
A	Absent
B	Absent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2030528-01A	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-01B	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-01C	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-01D	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L2030528-01E	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L2030528-01F	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),SE-Ti(180),PB-Ti(180),HG-T(28),CD-Ti(180)
L2030528-01G	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-01H	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-02A	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-02B	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-02C	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-02D	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L2030528-02E	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L2030528-02F	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),PB-Ti(180),SE-Ti(180),HG-T(28),CD-Ti(180)
L2030528-02G	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-02H	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-03A	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-03B	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-03C	Vial HCl preserved	A	NA		3.2	Y	Absent		SUB-8260(14)
L2030528-03D	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)



Project Name: DELAVAL
Project Number: 30114.1006.44200

Serial_No:08112018:48
Lab Number: L2030528
Report Date: 08/11/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2030528-03E	Amber 120ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L2030528-03F	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2030528-03G	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-03H	Amber 250ml unpreserved	A	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-04A	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-04B	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-04C	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-04D	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-04E	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-04F	Plastic 250ml HNO3 preserved	B	<2	<2	5.4	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2030528-04G	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-04H	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-05A	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-05B	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-05C	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-05D	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-05E	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-05F	Plastic 250ml HNO3 preserved	B	<2	<2	5.4	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2030528-05G	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-05H	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-06A	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-06B	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-06C	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-06D	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-06E	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)

Serial_No:08112018:48
Lab Number: L2030528
Report Date: 08/11/20

Project Name: DELAVAL
Project Number: 30114.1006.44200

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2030528-06F	Plastic 250ml HNO3 preserved	B	<2	<2	5.4	Y	Absent		AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),SE-Ti(180),PB-Ti(180),HG-T(28),CD-Ti(180)
L2030528-06G	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-06H	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-07A	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-07B	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-07C	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-07D	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-07E	Amber 120ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2030528-07F	Plastic 250ml HNO3 preserved	B	<2	<2	5.4	Y	Absent		AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),PB-Ti(180),SE-Ti(180),HG-T(28),CD-Ti(180)
L2030528-07G	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-07H	Amber 250ml unpreserved	B	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2030528-08A	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)
L2030528-08B	Vial HCl preserved	B	NA		5.4	Y	Absent		SUB-8260(14)

Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenzo(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration. (DoD and NYSDEC Part 375 PFAS only.)
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL
Project Number: 30114.1006.44200

Lab Number: L2030528
Report Date: 08/11/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**EPA TO-12** Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA Job #	12030528
Date Rec'd in Lab	02/18/20

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-858-9220
FAX: 508-896-9193

Project Information
Project Name: Delavay
Project Location: Poughkeeps

[illegible]

Deliverables		Billing Information	
☐ ASP-A	☐ ASP-B	☐ Same as Client Info	
☐ EQuIS (1 File)	☐ EQuIS (4 File)	PO #	

Client Information

Client: CHA
Address: 3005 State, St
Syracuse NY 13002
Phone: 315 257 7154
Fax:
Email: kelnmann@cha.com

Project #	30114.006.4
(Use Project name as Project #)	☐
Project Manager:	Melissa D
ALPHAQuote #:	
Turn-Around Time	Standard ☒
	Rush (only if pre approved) ☐

[illegible]

Regulatory Requirement		Disposal Site Information	
☐ Other			
☐ NY TOGS	☐ NY Part 375	Please identify below location of applicable disposal facilities.	
☐ AWQ Standards	☐ NY CP-51		
☐ NY Restricted Use	☐ Other	Disposal Facility:	
☐ NY Unrestricted Use			☐ NJ ☐ NY
☐ NYC Sewer Discharge			☐ Other:

these samples have been previously analyzed for the same analytes as the samples in this project. If not, please specify Metals or TAL.

ed by Alpha: ☐

ents:

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ANALYSIS		Sample Filtration				
- PCBs						☐ Done
- SVOCs						☐ Lab to do
- VOCs						☐ Preservation
- Metals						☐ Lab to do

ALPHA Lab ID (Lab Use Only)	
10528-01	NW-6
02	NW-4R
03	CHA-1
04	NW-5
05	NW-2
06	NW-1
07	WC-1

Sample ID	Collection	
	Date	
	7.16.20	
	7.16.20	
	7.16.20	
	7.16.20	
	7.17.20	
	7.17.20	
	7.17.20	
	7.17.20	

Sample Matrix	Sampler's Initials
water	KE/CH
water	KE/CH
water	KE/CH
water	VE/CH
water	KE/CH
water	VE/CH
water	VE/CH

(Please Specify below)		Sample Specific Comments	
8270	X	→	
8270	X	→	
8270	X	→	
8270	X	→	

reservative Code:	Container Code
= None	P = Plastic
= HCl	A = Amber Glass
= HNO ₃	V = Vial
= H ₂ SO ₄	G = Glass
= NaOH	B = Bacteria Cup
= MeOH	C = Cube
= NaHSO ₄	O = Other
= Na ₂ S ₂ O ₃	E = Encore
IE = Zn Ac/NaOH	D = BOD Bottle
= Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By: *Cynthia [Signature]*

		Time	19:55	19:55	19:55
	Container Type				
	Preservative				

A	A	V	P						
A	A	B	C						
Received By:				Date/Time					
- Rainer				7-17-20 14:55					
[Signature]				7/16/20 01:00					



Environment Testing
New England

☒ Final Report
☐ Revised Report

Report Date:
31-Jul-20 11:47

Laboratory Report SC58907

Alpha Analytical
145 Flanders Rd
Westboro, MA 01581
Attn: Melissa Deyo

Project: See Chain of Custody
Project #: L2030528

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # RI907
New York # 11393
Rhode Island # LAI00368
USDA # P330-20-00109

Authorized by:

Dawn Wojcik
Laboratory Director



Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC58907
Project: See Chain of Custody
Project Number: L2030528

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC58907-01	30528-01	Water	16-Jul-20 12:05	28-Jul-20 14:20
SC58907-02	30528-02	Water	16-Jul-20 14:15	28-Jul-20 14:20
SC58907-03	30528-03	Water	16-Jul-20 12:00	28-Jul-20 14:20
SC58907-04	30528-04	Water	16-Jul-20 15:25	28-Jul-20 14:20
SC58907-05	30528-05	Water	17-Jul-20 10:05	28-Jul-20 14:20
SC58907-06	30528-06	Water	17-Jul-20 11:20	28-Jul-20 14:20
SC58907-07	30528-07	Water	17-Jul-20 12:00	28-Jul-20 14:20

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 5.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C**Laboratory Control Samples:**

2001214 BS/BSD

1,2,3-Trichlorobenzene percent recoveries (67/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

30528-01
30528-02
30528-03
30528-04
30528-05
30528-06
30528-07

Cyclohexane percent recoveries (0/0) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

30528-01
30528-02
30528-03
30528-04
30528-05
30528-06
30528-07

Dichlorodifluoromethane (Freon12) percent recoveries (137/135) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

30528-01
30528-02
30528-03
30528-04
30528-05
30528-06
30528-07

SW846 8260C**Laboratory Control Samples:****2001214 BS/BSD**

Methyl acetate percent recoveries (0/0) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

30528-01
30528-02
30528-03
30528-04
30528-05
30528-06
30528-07

Methylcyclohexane percent recoveries (0/0) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

30528-01
30528-02
30528-03
30528-04
30528-05
30528-06
30528-07

2001214 BSD

Chloroethane RPD 21% (20%) is outside individual acceptance criteria.

2001214-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Dichlorodifluoromethane (Freon12)

2001214-BS2

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

1,2,3-Trichlorobenzene

The BS2 and BSD2 LCS's were added to verify the Cyclohexane, Methyl Acetate, and Methylcyclohexane.

2001214-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Chloroethane
Dichlorodifluoromethane (Freon12)

2001214-BSD2

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

1,2,3-Trichlorobenzene

The BS2 and BSD2 LCS's were added to verify the Cyclohexane, Methyl Acetate, and Methylcyclohexane.

Spikes:

2001214-MS1 *Source: SC58907-01*

SW846 8260C**Spikes:**

2001214-MS1

Source: SC58907-01

The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,4-Dioxane
2-Butanone (MEK)
2-Hexanone (MBK)
Acetone

Sample Acceptance Check Form

Client: Alpha Analytical
 Project: See Chain of Custody / L2030528
 Work Order: SC58907
 Sample(s) received on: 7/28/2020

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☒	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits**Lab ID:** SC58907-02**Client ID:** 30528-02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.65	J	1.00	µg/l	SW846 8260C

Lab ID: SC58907-03**Client ID:** 30528-03

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	0.73	J	1.00	µg/l	SW846 8260C

Lab ID: SC58907-04**Client ID:** 30528-04

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
o-Xylene	1.20		1.00	µg/l	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification**30528-01**

SC58907-01

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 12:05

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification**30528-01**

SC58907-01

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 12:05

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	"	

Sample Identification

30528-02

SC58907-02

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 14:15

Received

28-Jul-20

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification

30528-02

SC58907-02

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 14:15

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	0.65	J	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	104			70-130 %			"	"	"	"	"	

Sample Identification

30528-03

SC58907-03

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 12:00

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification

30528-03

SC58907-03

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 12:00

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	0.73	J	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Sample Identification

30528-04

SC58907-04

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 15:25

Received

28-Jul-20

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

30528-04

SC58907-04

Client Project #

L2030528

Matrix

Water

Collection Date/Time

16-Jul-20 15:25

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	1.20		µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Sample Identification**30528-05**

SC58907-05

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 10:05

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification**30528-05**

SC58907-05

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 10:05

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Sample Identification

30528-06

SC58907-06

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 11:20

Received

28-Jul-20

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification**30528-06**

SC58907-06

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 11:20

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	107			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	"	

Sample Identification**30528-07**

SC58907-07

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 12:00

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.20	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.39	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.37	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.54	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X

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Sample Identification**30528-07**

SC58907-07

Client Project #

L2030528

Matrix

Water

Collection Date/Time

17-Jul-20 12:00

Received

28-Jul-20

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.35	1	SW846 8260C	29-Jul-20	29-Jul-20	DDP	2001214	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.23	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	7.43	1	"	"	"	"	"	X
110-82-7	Cyclohexane	< 5.00	U	µg/l	5.00	0.44	1	"	"	"	"	"	X
79-20-9	Methyl acetate	< 10.0	U	µg/l	10.0	5.14	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	< 5.00	U	µg/l	5.00	0.39	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	"	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
Blank (2001214-BLK1)					Prepared & Analyzed: 29-Jul-20					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Benzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
Cyclohexane	< 5.00	U	µg/l	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
Blank (2001214-BLK1)					Prepared & Analyzed: 29-Jul-20					
Methyl acetate	< 10.0	U	µg/l	10.0						
Methylcyclohexane	< 5.00	U	µg/l	5.00						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.8</i>		<i>µg/l</i>		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>51.5</i>		<i>µg/l</i>		<i>50.0</i>		<i>103</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.8</i>		<i>µg/l</i>		<i>50.0</i>		<i>104</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>50.9</i>		<i>µg/l</i>		<i>50.0</i>		<i>102</i>	<i>70-130</i>		
LCS (2001214-BS1)					Prepared & Analyzed: 29-Jul-20					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.7		µg/l		20.0		104	70-130		
Acetone	15.6		µg/l		20.0		78	70-130		
Benzene	20.1		µg/l		20.0		101	70-130		
Bromochloromethane	18.8		µg/l		20.0		94	70-130		
Bromodichloromethane	19.8		µg/l		20.0		99	70-130		
Bromoform	21.6		µg/l		20.0		108	70-130		
Bromomethane	17.7		µg/l		20.0		89	70-130		
2-Butanone (MEK)	14.5		µg/l		20.0		72	70-130		
Carbon disulfide	20.6		µg/l		20.0		103	70-130		
Carbon tetrachloride	21.2		µg/l		20.0		106	70-130		
Chlorobenzene	18.8		µg/l		20.0		94	70-130		
Chloroethane	18.9		µg/l		20.0		94	70-130		
Chloroform	18.8		µg/l		20.0		94	70-130		
Chloromethane	22.8		µg/l		20.0		114	70-130		
1,2-Dibromo-3-chloropropane	18.0		µg/l		20.0		90	70-130		
Dibromochloromethane	19.8		µg/l		20.0		99	70-130		
1,2-Dibromoethane (EDB)	21.2		µg/l		20.0		106	70-130		
1,2-Dichlorobenzene	20.5		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	21.1		µg/l		20.0		106	70-130		
1,4-Dichlorobenzene	17.8		µg/l		20.0		89	70-130		
Dichlorodifluoromethane (Freon12)	27.4	QC6	µg/l		20.0		137	70-130		
1,1-Dichloroethane	21.1		µg/l		20.0		106	70-130		
1,2-Dichloroethane	19.2		µg/l		20.0		96	70-130		
1,1-Dichloroethene	19.8		µg/l		20.0		99	70-130		
cis-1,2-Dichloroethene	21.8		µg/l		20.0		109	70-130		
trans-1,2-Dichloroethene	20.7		µg/l		20.0		104	70-130		
1,2-Dichloropropane	19.9		µg/l		20.0		99	70-130		
cis-1,3-Dichloropropene	21.6		µg/l		20.0		108	70-130		
trans-1,3-Dichloropropene	22.7		µg/l		20.0		113	70-130		
Ethylbenzene	19.7		µg/l		20.0		98	70-130		
2-Hexanone (MBK)	18.2		µg/l		20.0		91	70-130		
Isopropylbenzene	18.4		µg/l		20.0		92	70-130		
Methyl tert-butyl ether	20.6		µg/l		20.0		103	70-130		
4-Methyl-2-pentanone (MIBK)	19.1		µg/l		20.0		96	70-130		
Methylene chloride	20.8		µg/l		20.0		104	70-130		
Styrene	18.3		µg/l		20.0		91	70-130		
1,1,2,2-Tetrachloroethane	18.9		µg/l		20.0		95	70-130		
Tetrachloroethene	20.3		µg/l		20.0		102	70-130		
Toluene	19.3		µg/l		20.0		96	70-130		
1,2,3-Trichlorobenzene	17.5		µg/l		20.0		87	70-130		
1,2,4-Trichlorobenzene	19.6		µg/l		20.0		98	70-130		
1,1,1-Trichloroethane	20.2		µg/l		20.0		101	70-130		
1,1,2-Trichloroethane	19.5		µg/l		20.0		97	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
LCS (2001214-BS1)					Prepared & Analyzed: 29-Jul-20					
Trichloroethene	18.2		µg/l		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	21.5		µg/l		20.0		108	70-130		
Vinyl chloride	21.7		µg/l		20.0		109	70-130		
m,p-Xylene	45.8		µg/l		40.0		115	70-130		
o-Xylene	17.7		µg/l		20.0		88	70-130		
1,4-Dioxane	197		µg/l		200		99	70-130		
Cyclohexane	< 5.00	U	µg/l	5.00				70-130		
Methyl acetate	< 10.0	U	µg/l	10.0				70-130		
Methylcyclohexane	< 5.00	U	µg/l	5.00				70-130		
Surrogate: 4-Bromofluorobenzene	50.8		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	50.7		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.9		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	49.7		µg/l		50.0		99	70-130		
LCS (2001214-BS2)					Prepared & Analyzed: 29-Jul-20					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.2		µg/l		20.0		86	70-130		
Acetone	17.0		µg/l		20.0		85	70-130		
Benzene	17.2		µg/l		20.0		86	70-130		
Bromochloromethane	18.0		µg/l		20.0		90	70-130		
Bromodichloromethane	17.5		µg/l		20.0		88	70-130		
Bromoform	18.2		µg/l		20.0		91	70-130		
Bromomethane	17.7		µg/l		20.0		88	70-130		
2-Butanone (MEK)	14.2		µg/l		20.0		71	70-130		
Carbon disulfide	17.3		µg/l		20.0		86	70-130		
Carbon tetrachloride	17.6		µg/l		20.0		88	70-130		
Chlorobenzene	16.1		µg/l		20.0		81	70-130		
Chloroethane	17.4		µg/l		20.0		87	70-130		
Chloroform	17.3		µg/l		20.0		87	70-130		
Chloromethane	17.8		µg/l		20.0		89	70-130		
1,2-Dibromo-3-chloropropane	15.2		µg/l		20.0		76	70-130		
Dibromochloromethane	17.2		µg/l		20.0		86	70-130		
1,2-Dibromoethane (EDB)	18.3		µg/l		20.0		92	70-130		
1,2-Dichlorobenzene	16.9		µg/l		20.0		85	70-130		
1,3-Dichlorobenzene	17.3		µg/l		20.0		87	70-130		
1,4-Dichlorobenzene	15.6		µg/l		20.0		78	70-130		
Dichlorodifluoromethane (Freon12)	21.8		µg/l		20.0		109	70-130		
1,1-Dichloroethane	18.0		µg/l		20.0		90	70-130		
1,2-Dichloroethane	17.2		µg/l		20.0		86	70-130		
1,1-Dichloroethene	16.7		µg/l		20.0		83	70-130		
cis-1,2-Dichloroethene	17.6		µg/l		20.0		88	70-130		
trans-1,2-Dichloroethene	16.7		µg/l		20.0		84	70-130		
1,2-Dichloropropane	17.2		µg/l		20.0		86	70-130		
cis-1,3-Dichloropropene	17.2		µg/l		20.0		86	70-130		
trans-1,3-Dichloropropene	18.8		µg/l		20.0		94	70-130		
Ethylbenzene	16.4		µg/l		20.0		82	70-130		
2-Hexanone (MBK)	14.3		µg/l		20.0		72	70-130		
Isopropylbenzene	14.5		µg/l		20.0		73	70-130		
Methyl tert-butyl ether	16.9		µg/l		20.0		85	70-130		
4-Methyl-2-pentanone (MIBK)	16.5		µg/l		20.0		82	70-130		
Methylene chloride	18.9		µg/l		20.0		94	70-130		
Styrene	15.2		µg/l		20.0		76	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
LCS (2001214-BS2)			Z-2					Prepared & Analyzed: 29-Jul-20		
1,1,2,2-Tetrachloroethane	16.4		µg/l		20.0		82	70-130		
Tetrachloroethene	17.1		µg/l		20.0		86	70-130		
Toluene	16.4		µg/l		20.0		82	70-130		
1,2,3-Trichlorobenzene	13.5	QC6	µg/l		20.0		67	70-130		
1,2,4-Trichlorobenzene	15.0		µg/l		20.0		75	70-130		
1,1,1-Trichloroethane	17.2		µg/l		20.0		86	70-130		
1,1,2-Trichloroethane	17.8		µg/l		20.0		89	70-130		
Trichloroethene	17.0		µg/l		20.0		85	70-130		
Trichlorofluoromethane (Freon 11)	16.2		µg/l		20.0		81	70-130		
Vinyl chloride	16.4		µg/l		20.0		82	70-130		
m,p-Xylene	37.7		µg/l		40.0		94	70-130		
o-Xylene	14.1		µg/l		20.0		70	70-130		
1,4-Dioxane	166		µg/l		200		83	70-130		
Cyclohexane	17.2		µg/l		20.0		86	70-130		
Methyl acetate	19.5		µg/l		20.0		98	70-130		
Methylcyclohexane	20.1		µg/l		20.0		100	70-130		
Surrogate: 4-Bromofluorobenzene	51.2		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	51.9		µg/l		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.9		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	51.6		µg/l		50.0		103	70-130		
LCS Dup (2001214-BSD1)								Prepared & Analyzed: 29-Jul-20		
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.8		µg/l		20.0		99	70-130	5	20
Acetone	14.7		µg/l		20.0		74	70-130	5	20
Benzene	20.0		µg/l		20.0		100	70-130	0.4	20
Bromochloromethane	19.2		µg/l		20.0		96	70-130	2	20
Bromodichloromethane	19.5		µg/l		20.0		98	70-130	1	20
Bromoform	21.6		µg/l		20.0		108	70-130	0.1	20
Bromomethane	18.6		µg/l		20.0		93	70-130	5	20
2-Butanone (MEK)	14.3		µg/l		20.0		72	70-130	1	20
Carbon disulfide	20.3		µg/l		20.0		101	70-130	2	20
Carbon tetrachloride	20.9		µg/l		20.0		104	70-130	2	20
Chlorobenzene	18.2		µg/l		20.0		91	70-130	3	20
Chloroethane	15.3	QC6	µg/l		20.0		77	70-130	21	20
Chloroform	18.5		µg/l		20.0		93	70-130	1	20
Chloromethane	22.1		µg/l		20.0		111	70-130	3	20
1,2-Dibromo-3-chloropropane	16.0		µg/l		20.0		80	70-130	12	20
Dibromochloromethane	19.8		µg/l		20.0		99	70-130	0.3	20
1,2-Dibromoethane (EDB)	21.5		µg/l		20.0		108	70-130	2	20
1,2-Dichlorobenzene	19.7		µg/l		20.0		99	70-130	4	20
1,3-Dichlorobenzene	20.3		µg/l		20.0		101	70-130	4	20
1,4-Dichlorobenzene	17.4		µg/l		20.0		87	70-130	2	20
Dichlorodifluoromethane (Freon12)	26.9	QC6	µg/l		20.0		135	70-130	2	20
1,1-Dichloroethane	20.7		µg/l		20.0		104	70-130	2	20
1,2-Dichloroethane	18.9		µg/l		20.0		95	70-130	1	20
1,1-Dichloroethene	19.8		µg/l		20.0		99	70-130	0.3	20
cis-1,2-Dichloroethene	21.3		µg/l		20.0		107	70-130	2	20
trans-1,2-Dichloroethene	19.8		µg/l		20.0		99	70-130	5	20
1,2-Dichloropropane	19.9		µg/l		20.0		100	70-130	0.1	20
cis-1,3-Dichloropropene	21.5		µg/l		20.0		108	70-130	0.4	20
trans-1,3-Dichloropropene	23.1		µg/l		20.0		116	70-130	2	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
LCS Dup (2001214-BSD1)					Prepared & Analyzed: 29-Jul-20					
Ethylbenzene	19.2		µg/l		20.0		96	70-130	3	20
2-Hexanone (MBK)	18.4		µg/l		20.0		92	70-130	1	20
Isopropylbenzene	17.7		µg/l		20.0		88	70-130	4	20
Methyl tert-butyl ether	20.9		µg/l		20.0		105	70-130	2	20
4-Methyl-2-pentanone (MIBK)	19.4		µg/l		20.0		97	70-130	2	20
Methylene chloride	20.8		µg/l		20.0		104	70-130	0.4	20
Styrene	18.4		µg/l		20.0		92	70-130	0.4	20
1,1,2,2-Tetrachloroethane	18.4		µg/l		20.0		92	70-130	3	20
Tetrachloroethene	20.3		µg/l		20.0		102	70-130	0.05	20
Toluene	19.3		µg/l		20.0		97	70-130	0.3	20
1,2,3-Trichlorobenzene	17.4		µg/l		20.0		87	70-130	0.3	20
1,2,4-Trichlorobenzene	19.4		µg/l		20.0		97	70-130	1	20
1,1,1-Trichloroethane	20.0		µg/l		20.0		100	70-130	1	20
1,1,2-Trichloroethane	19.8		µg/l		20.0		99	70-130	1	20
Trichloroethene	18.2		µg/l		20.0		91	70-130	0.3	20
Trichlorofluoromethane (Freon 11)	21.2		µg/l		20.0		106	70-130	2	20
Vinyl chloride	21.5		µg/l		20.0		107	70-130	1	20
m,p-Xylene	43.3		µg/l		40.0		108	70-130	6	20
o-Xylene	17.5		µg/l		20.0		87	70-130	1	20
1,4-Dioxane	212		µg/l		200		106	70-130	7	20
Cyclohexane	< 5.00	U	µg/l	5.00				70-130		30
Methyl acetate	< 10.0	U	µg/l	10.0				70-130		30
Methylcyclohexane	< 5.00	U	µg/l	5.00				70-130		30
Surrogate: 4-Bromofluorobenzene	51.6		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	51.6		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.9		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	51.3		µg/l		50.0		103	70-130		
LCS Dup (2001214-BSD2)					Prepared & Analyzed: 29-Jul-20					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.0	Z-2	µg/l		20.0		80	70-130	7	20
Acetone	15.8		µg/l		20.0		79	70-130	8	20
Benzene	17.2		µg/l		20.0		86	70-130	0.3	20
Bromochloromethane	16.8		µg/l		20.0		84	70-130	7	20
Bromodichloromethane	17.1		µg/l		20.0		85	70-130	3	20
Bromoform	17.6		µg/l		20.0		88	70-130	3	20
Bromomethane	17.4		µg/l		20.0		87	70-130	1	20
2-Butanone (MEK)	14.2		µg/l		20.0		71	70-130	0.1	20
Carbon disulfide	16.3		µg/l		20.0		82	70-130	6	20
Carbon tetrachloride	17.1		µg/l		20.0		86	70-130	3	20
Chlorobenzene	15.6		µg/l		20.0		78	70-130	3	20
Chloroethane	17.3		µg/l		20.0		86	70-130	0.9	20
Chloroform	16.4		µg/l		20.0		82	70-130	5	20
Chloromethane	18.0		µg/l		20.0		90	70-130	0.6	20
1,2-Dibromo-3-chloropropane	14.7		µg/l		20.0		73	70-130	3	20
Dibromochloromethane	16.9		µg/l		20.0		85	70-130	2	20
1,2-Dibromoethane (EDB)	17.8		µg/l		20.0		89	70-130	3	20
1,2-Dichlorobenzene	16.8		µg/l		20.0		84	70-130	1	20
1,3-Dichlorobenzene	17.6		µg/l		20.0		88	70-130	1	20
1,4-Dichlorobenzene	15.2		µg/l		20.0		76	70-130	3	20
Dichlorodifluoromethane (Freon12)	21.2		µg/l		20.0		106	70-130	3	20
1,1-Dichloroethane	17.2		µg/l		20.0		86	70-130	4	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
LCS Dup (2001214-BSD2)			Z-2					Prepared & Analyzed: 29-Jul-20		
1,2-Dichloroethane	16.7		µg/l		20.0		83	70-130	3	20
1,1-Dichloroethene	16.7		µg/l		20.0		83	70-130	0.06	20
cis-1,2-Dichloroethene	17.7		µg/l		20.0		88	70-130	0.5	20
trans-1,2-Dichloroethene	16.8		µg/l		20.0		84	70-130	0.8	20
1,2-Dichloropropane	16.6		µg/l		20.0		83	70-130	4	20
cis-1,3-Dichloropropene	17.9		µg/l		20.0		89	70-130	4	20
trans-1,3-Dichloropropene	18.8		µg/l		20.0		94	70-130	0.2	20
Ethylbenzene	16.3		µg/l		20.0		82	70-130	0.3	20
2-Hexanone (MBK)	14.9		µg/l		20.0		74	70-130	4	20
Isopropylbenzene	14.5		µg/l		20.0		73	70-130	0.07	20
Methyl tert-butyl ether	17.1		µg/l		20.0		85	70-130	0.9	20
4-Methyl-2-pentanone (MIBK)	16.4		µg/l		20.0		82	70-130	0.4	20
Methylene chloride	18.5		µg/l		20.0		92	70-130	2	20
Styrene	15.7		µg/l		20.0		78	70-130	3	20
1,1,2,2-Tetrachloroethane	15.8		µg/l		20.0		79	70-130	4	20
Tetrachloroethene	16.6		µg/l		20.0		83	70-130	3	20
Toluene	16.2		µg/l		20.0		81	70-130	1	20
1,2,3-Trichlorobenzene	13.5	QC6	µg/l		20.0		68	70-130	0.3	20
1,2,4-Trichlorobenzene	15.1		µg/l		20.0		76	70-130	0.5	20
1,1,1-Trichloroethane	16.8		µg/l		20.0		84	70-130	2	20
1,1,2-Trichloroethane	17.9		µg/l		20.0		89	70-130	0.6	20
Trichloroethene	16.5		µg/l		20.0		82	70-130	3	20
Trichlorofluoromethane (Freon 11)	17.0		µg/l		20.0		85	70-130	5	20
Vinyl chloride	17.2		µg/l		20.0		86	70-130	5	20
m,p-Xylene	36.2		µg/l		40.0		90	70-130	4	20
o-Xylene	14.0		µg/l		20.0		70	70-130	0.4	20
1,4-Dioxane	158		µg/l		200		79	70-130	5	20
Cyclohexane	16.6		µg/l		20.0		83	70-130	3	30
Methyl acetate	19.1		µg/l		20.0		95	70-130	2	30
Methylcyclohexane	19.6		µg/l		20.0		98	70-130	2	30
Surrogate: 4-Bromofluorobenzene	51.2		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	51.9		µg/l		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.1		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	51.8		µg/l		50.0		104	70-130		
Duplicate (2001214-DUP1)				Source: SC58907-02				Prepared & Analyzed: 29-Jul-20		
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00		BRL				20
Acetone	< 10.0	U	µg/l	10.0		BRL				20
Benzene	< 1.00	U	µg/l	1.00		BRL				20
Bromochloromethane	< 1.00	U	µg/l	1.00		BRL				20
Bromodichloromethane	< 0.50	U	µg/l	0.50		BRL				20
Bromoform	< 1.00	U	µg/l	1.00		BRL				20
Bromomethane	< 2.00	U	µg/l	2.00		BRL				20
2-Butanone (MEK)	< 2.00	U	µg/l	2.00		BRL				20
Carbon disulfide	< 2.00	U	µg/l	2.00		BRL				20
Carbon tetrachloride	< 1.00	U	µg/l	1.00		BRL				20
Chlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
Chloroethane	< 2.00	U	µg/l	2.00		BRL				20
Chloroform	< 1.00	U	µg/l	1.00		BRL				20
Chloromethane	< 2.00	U	µg/l	2.00		BRL				20
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00		BRL				20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
Duplicate (2001214-DUP1)				Source: SC58907-02		Prepared & Analyzed: 29-Jul-20				
Dibromochloromethane	< 0.50	U	µg/l	0.50		BRL				20
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50		BRL				20
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00		BRL				20
1,1-Dichloroethane	< 1.00	U	µg/l	1.00		BRL				20
1,2-Dichloroethane	< 1.00	U	µg/l	1.00		BRL				20
1,1-Dichloroethene	< 1.00	U	µg/l	1.00		BRL				20
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00		BRL				20
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00		BRL				20
1,2-Dichloropropane	< 1.00	U	µg/l	1.00		BRL				20
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50		BRL				20
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50		BRL				20
Ethylbenzene	< 1.00	U	µg/l	1.00		BRL				20
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00		BRL				20
Isopropylbenzene	< 1.00	U	µg/l	1.00		BRL				20
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00		BRL				20
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00		BRL				20
Methylene chloride	< 2.00	U	µg/l	2.00		BRL				20
Styrene	< 1.00	U	µg/l	1.00		BRL				20
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50		BRL				20
Tetrachloroethene	< 1.00	U	µg/l	1.00		BRL				20
Toluene	< 1.00	U	µg/l	1.00		BRL				20
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00		BRL				20
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00		BRL				20
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00		BRL				20
Trichloroethene	0.73	J	µg/l	1.00		0.65			12	20
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00		BRL				20
Vinyl chloride	< 1.00	U	µg/l	1.00		BRL				20
m,p-Xylene	< 2.00	U	µg/l	2.00		BRL				20
o-Xylene	< 1.00	U	µg/l	1.00		BRL				20
1,4-Dioxane	< 20.0	U	µg/l	20.0		BRL				20
Cyclohexane	< 5.00	U	µg/l	5.00		BRL				30
Methyl acetate	< 10.0	U	µg/l	10.0		BRL				30
Methylcyclohexane	< 5.00	U	µg/l	5.00		BRL				30
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.2</i>		µg/l		<i>50.0</i>		<i>96</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		µg/l		<i>50.0</i>		<i>102</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.6</i>		µg/l		<i>50.0</i>		<i>103</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>50.8</i>		µg/l		<i>50.0</i>		<i>102</i>	<i>70-130</i>		
Matrix Spike (2001214-MS1)				Source: SC58907-01		Prepared & Analyzed: 29-Jul-20				
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.4		µg/l		19.8	0.00	98	70-130		
Acetone	12.5	QM9	µg/l		19.8	0.00	63	70-130		
Benzene	17.5		µg/l		19.8	0.00	88	70-130		
Bromochloromethane	16.8		µg/l		19.8	0.00	85	70-130		
Bromodichloromethane	16.7		µg/l		19.8	0.00	84	70-130		
Bromoform	18.5		µg/l		19.8	0.00	93	70-130		
Bromomethane	18.0		µg/l		19.8	0.00	91	70-130		
2-Butanone (MEK)	12.5	QM9	µg/l		19.8	0.00	63	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 2001214 - SW846 5030 Water MS										
Matrix Spike (2001214-MS1)										
Carbon disulfide	18.8		µg/l		19.8	0.00	95	70-130		
Carbon tetrachloride	19.1		µg/l		19.8	0.00	96	70-130		
Chlorobenzene	16.1		µg/l		19.8	0.00	81	70-130		
Chloroethane	22.7		µg/l		19.8	0.00	114	70-130		
Chloroform	17.2		µg/l		19.8	0.00	87	70-130		
Chloromethane	18.8		µg/l		19.8	0.00	95	70-130		
1,2-Dibromo-3-chloropropane	13.2	QM9	µg/l		19.8	0.00	66	70-130		
Dibromochloromethane	16.6		µg/l		19.8	0.00	84	70-130		
1,2-Dibromoethane (EDB)	17.4		µg/l		19.8	0.00	88	70-130		
1,2-Dichlorobenzene	16.8		µg/l		19.8	0.00	85	70-130		
1,3-Dichlorobenzene	18.1		µg/l		19.8	0.00	91	70-130		
1,4-Dichlorobenzene	15.3		µg/l		19.8	0.00	77	70-130		
Dichlorodifluoromethane (Freon12)	24.1		µg/l		19.8	0.00	122	70-130		
1,1-Dichloroethane	18.6		µg/l		19.8	0.00	94	70-130		
1,2-Dichloroethane	16.9		µg/l		19.8	0.00	85	70-130		
1,1-Dichloroethene	18.9		µg/l		19.8	0.00	95	70-130		
cis-1,2-Dichloroethene	17.8		µg/l		19.8	0.00	90	70-130		
trans-1,2-Dichloroethene	17.6		µg/l		19.8	0.00	89	70-130		
1,2-Dichloropropane	16.9		µg/l		19.8	0.00	85	70-130		
cis-1,3-Dichloropropene	17.2		µg/l		19.8	0.00	87	70-130		
trans-1,3-Dichloropropene	18.6		µg/l		19.8	0.00	94	70-130		
Ethylbenzene	16.8		µg/l		19.8	0.00	85	70-130		
2-Hexanone (MBK)	12.1	QM9	µg/l		19.8	0.00	61	70-130		
Isopropylbenzene	15.1		µg/l		19.8	0.00	76	70-130		
Methyl tert-butyl ether	16.1		µg/l		19.8	0.00	81	70-130		
4-Methyl-2-pentanone (MIBK)	14.8		µg/l		19.8	0.00	75	70-130		
Methylene chloride	18.1		µg/l		19.8	0.00	92	70-130		
Styrene	15.4		µg/l		19.8	0.00	78	70-130		
1,1,2,2-Tetrachloroethane	15.9		µg/l		19.8	0.00	80	70-130		
Tetrachloroethene	18.6		µg/l		19.8	0.00	94	70-130		
Toluene	17.3		µg/l		19.8	0.00	87	70-130		
1,2,3-Trichlorobenzene	13.1	QM9	µg/l		19.8	0.00	66	70-130		
1,2,4-Trichlorobenzene	14.5		µg/l		19.8	0.00	73	70-130		
1,1,1-Trichloroethane	18.6		µg/l		19.8	0.00	94	70-130		
1,1,2-Trichloroethane	16.7		µg/l		19.8	0.00	84	70-130		
Trichloroethene	16.2		µg/l		19.8	0.00	82	70-130		
Trichlorofluoromethane (Freon 11)	19.7		µg/l		19.8	0.00	100	70-130		
Vinyl chloride	18.6		µg/l		19.8	0.00	94	70-130		
m,p-Xylene	38.3		µg/l		39.5	0.00	97	70-130		
o-Xylene	14.1		µg/l		19.8	0.00	71	70-130		
1,4-Dioxane	129	QM9	µg/l		198	0.00	65	70-130		
Cyclohexane	< 5.00	U	µg/l	5.00		BRL		70-130		
Methyl acetate	< 10.0	U	µg/l	10.0		BRL		70-130		
Methylcyclohexane	< 5.00	U	µg/l	5.00		BRL		70-130		
Surrogate: 4-Bromofluorobenzene	51.2		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	51.5		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.0		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	51.4		µg/l		50.0		103	70-130		

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
U	Analyte included in the analysis, but not detected at or above the MDL.
Z-2	The BS2 and BSD2 LCS's were added to verify the Cyclohexane, Methyl Acetate, and Methylcyclohexane.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

6.14.54 #6

Batch Summary

2001214

Volatile Organic Compounds

2001214-BLK1

2001214-BS1

2001214-BS2

2001214-BSD1

2001214-BSD2

2001214-DUP1

2001214-MS1

SC58907-01 (30528-01)

SC58907-02 (30528-02)

SC58907-03 (30528-03)

SC58907-04 (30528-04)

SC58907-05 (30528-05)

SC58907-06 (30528-06)

SC58907-07 (30528-07)

APPENDIX G

Waste Disposal Documentation



NON-HAZARDOUS WASTE MANIFEST

Please print or type

(If this manifest is for use in New York State, please check the appropriate box(es))

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CESQG NY		Manifest Number 2010-2-243		2. Page 1 of 1	
3. Generator's Name and Mailing Address DELAVAL 202-204 RINALDI BLVD, POUGHKEEPSIE NY 12601		4. Generator's Phone 914-257-7250		A. State Transporter's ID 4A-708		B. Transporter 1 Phone 516-439-3950	
5. Transporter 1 Emergency Number COBBETT INDUSTRIAL CLEANING INC NYR000235168		6. Transporter 2 Emergency Number VEOLIA VEOLIA 125 FACTORY LANE MIDDLESEX, NJ 08846 IND0002454544		C. State Transporter's ID IND0002454544		D. Transporter 2 Phone 732-469-5100	
7. Transporter 3 Emergency Number VEOLIA VEOLIA 125 FACTORY LANE MIDDLESEX, NJ 08846 IND0002454544		8. Transporter 4 Emergency Number VEOLIA VEOLIA 125 FACTORY LANE MIDDLESEX, NJ 08846 IND0002454544		E. State Facility's ID 732-469-5100		F. Facility's Phone 732-469-5100	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity		14. Unit Weight	
NON-RCRA NON DOT LIQUID		1 DM 250		P			
15. Additional Descriptions for Materials Listed Above 11.A PROFILE AND APPROVAL #363470 AND 1X55 CICS MARWATER-NH (NY) PLATE # 86818MK		16. Handling Codes for Wastes Listed Above					
17. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
18. Generator's Signature JOSEPH YANE		Signature [Signature]		Date 09/22/2020			
19. Transporter 1 Acknowledgment of Receipt of Materials MICHAEL BRADY		Signature [Signature]		Date 09/22/2020			
20. Transporter 2 Acknowledgment of Receipt of Materials JOHN KUNDZICK		Signature [Signature]		Date 9/22/20			
21. Facility's Certificate of Receipt: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
22. Facility's Signature [Signature]		Signature [Signature]		Date [Date]			

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

