

2021 PERIODIC REVIEW REPORT

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

NYSDEC Site Number: B00190-3

CHA Project Number: 030114.000

Prepared for:

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December 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
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PRR	Periodic Review Report
QA	Quality Assurance
QC	Quality Control
RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SAC	State Assistance Contract
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SSP	Steel Sheet Pile
STP	Sewage Treatment Plant
SVOC	Semivolatile Organic Compound
TCL	Target Compound List
TMP	Tax Map Parcel
TOGS	Technical and Operational Guidance Series
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a long history of former industrial use based upon review of available Sanborn Fire Insurance Rate Mapping and other historical documents.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 (RAOs) 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 2021.

The Site was observed to be in overall good condition at the time of the most recent sitewide inspection, conducted on July 15th, 2021. No additional development of the Site has occurred since the last inspection in July 2020. The Site has remained unchanged since 2011, with the exception

of additional vegetation growth. Additionally, no leaks or gaps were observed during the inspection of the bulkheads.

The groundwater analytical results from the July 2021 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(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.; lead, Aroclor 1248, and Aroclor 1254. Overall, the analytical results indicate stable concentrations of the contaminants of concern from 2015 to 2021 and indicate that the remedy continues to be effective in achieving the remedial action objectives 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:

- Change the groundwater sampling frequency from annual to once every five years, based on consistent low detections at the Site. This would require a revision to the current SMP. An annual Site-wide inspection would still be required on annual basis.

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. CHA Consulting, Inc. (CHA) was retained by the City to prepare this Periodic Review Report (PRR), which 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 2021.

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 Site "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; an elevated railroad track with a concrete retaining wall 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 Objective (SCO) concentrations identified in 6 NYCRR Part 375. While the detailed results of the confirmatory samples are 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 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 event to verify they are in good condition and are being properly maintained to allow for periodic groundwater quality monitoring.

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 2021 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 Police 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; however, the first inspection was performed during the 2020 monitoring event and will not be performed again until 2025.

2.2.3 Groundwater Monitoring Activities

On July 15th and 16th, 2021, 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.

CHA requested to eliminate the use of a photoionization detector (PID) to measure the concentration, if any, of organic vapors in the headspace of each well prior to conducting groundwater level measurements. This request was approved by NYSDEC upon receipt of the 2020 PRR and was implemented in the 2021 monitoring period. An electronic oil/water interface probe was 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 low tide for the Hudson River at Poughkeepsie was reported as 11:16 A.M. Water level data were collected between 10:00 A.M and 3:30 P.M.

CHA requested to 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. The request was not approved by NYSDEC until permanent well casings are installed on each monitoring well. The permanent casings were installed on July 16th, 2021, as described in Section 3.2. Therefore, at each location, the water level was measured from the top of the well riser using an electronic oil/water interface probe. In future monitoring events, a water-level meter capable of measuring the water level with a 0.01-foot accuracy will be used for well gauging activities.

Since permanent well casings were installed at the end of the 2021 monitoring event (as detailed in Section 3.2) and the concrete pads surrounding the casings and not yet set/cured, the well casings were not surveyed as part of the 2021 monitoring event. Therefore, water level measurements were not converted to groundwater elevations. However, during the 2022 event, 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 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-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 onsite, pending waste characterization, profiling, and off-site disposal arrangements.

For quality assurance/quality control (QA/QC) purposes, one blind duplicate sample, identified as "CHA-1" was collected at well MW-2.

Upon completion of field activities, CHA transported the samples under chain-of-custody protocol to Alpha Analytical Inc.'s (Alpha) service center in Mahwah, New Jersey. 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 Compound List (TCL) SVOCs by Environmental Protection Agency (EPA) Method 8270;
- PCBs by EPA Method 8082; and,
- Resource Conservation and Recovery Act (RCRA) 8 Metals via EPA Methods 6010 and 7174.

TCL VOCs by EPA Method 8260 were not analyzed in the 2021 sampling event. The NYSDEC approved the elimination of VOC sampling following approval of the 2020 PRR.

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 2021 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. Photographs were unable to be updated because vegetation obscured view. 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

CHA observed the current condition of the bulkheads immediately following low tide conditions from a boat provided by the City of Poughkeepsie Police Department. 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 Zone 3 bulkhead appeared to be leaning toward the Hudson River and appears to be similar to the previous inspection in July 2020. 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 2020. 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. Vegetation limited the ability for photos to capture the settling/consolidation of stone material, but settling/consolidation appears to be similar to previous years. The crack in the precast concrete cap is at a joint between two concrete cap and is due to the deflection of the bulkhead. The corner of the concrete cap on the bulkhead on the far north end of the subject has spalled, and potentially was damaged by the collision with a boat. The spall does not appear to impact the structural integrity of the bulkhead and photographs of the spalled concrete cap are attached in Appendix C. 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.

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 were not installed at the time of the inspection, and multiple J-Plugs were missing during inspection. The permanent well casings, J-Plugs, and well locks were installed on July 16th, 2021, which is detailed in Section 3.2. 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.

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 SSDSs 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 2021 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 2020.
 - 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. An intermodal container 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 WELL CASING INSTALLATION

Upon review of the 2020 PRR, the NYSDEC requested permanent casings be installed on each groundwater monitoring well at the Site due to the delays in redevelopment of the Site. CHA subcontracted Cascade Remediation Services of Schenectady, New York to install permanent flush mount casings over each of the nine monitoring wells. Steel casings, J-Plugs, and new locks were installed on each well. Photographs documenting this work are provided in Appendix C. As previously indicated, the top of casing and top of riser elevations were not surveyed during this 2021 event but will be surveyed at or prior to the 2022 monitoring event.

3.3 GROUNDWATER MONITORING RESULTS

No evidence of organic vapors, LNAPL, or petroleum sheen was observed at any of the monitoring well locations during the July 2021 monitoring event. This is consistent with results from previous monitoring events that commenced in 2015. Groundwater sampling logs are included in Appendix D. Specifically, Appendix D.1 includes the depth to groundwater measurements, Appendix D.2 provides a sampling summary table, and Appendix D.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 and compared to the Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1)

Ambient Water Quality Groundwater Standards and Guidance Values. The complete original laboratory data packages are included in Appendix E. In summary:

- **SVOCs:** Multiple SVOCs were detected during the 2021 sampling event. Concentrations of the following six SVOCs were detected in excess of their respective TOGS 1.1.1 ambient 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 1248 and 1254 were detected in the samples collected during the 2021 monitoring event and were only detected in wells MW-1 and MW-5.
- **Metals:** The only metals detected above the applicable groundwater standard during the 2021 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-2. All parameters detected were found to be within 20 percent relative percent difference (RPD)

Corbett Industrial Cleaning Services, Inc. (Corbett) collected one drum of containerized purge water from the Site on October 25th, 2021 for off-site disposal. A copy of the waste disposal documentation (Bill of Lading) is included in Appendix F.

3.4 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 E. In summary, CHA notes the following for each monitoring well:

- **MW-1:** The detected SVOCs were at lower concentrations than the 2020 results. The detected metals were at the lowest concentrations detected since 2015. PCBs were detected at this location at low concentrations. All detections were at concentrations below the applicable TOGS 1.1.1 groundwater standards.
- **MW-2:** There were no detected SVOCs at this well for the first time since 2015. Metals were detected at a concentration not in exceedance of TOGS 1.1.1 groundwater standards. PCBs remain absent from this well since 2017.
- **MW-4/MW-4R:** SVOCs were detected at higher concentrations than the previous year but remain consistent with historical results at this location. Metals were detected at concentrations below the applicable groundwater standard. PCBs continue to be absent from this well.

- **MW-5:** The SVOC and metal concentrations decreased slightly between 2020 and 2021, but results are consistent with historical results at this location. PCBs, specifically Aroclor 1248 and 1254, were detected in this well for the first time at relatively low concentrations.
- **MW-6:** The detected SVOCs in this well are consistent with historical results at this location. Metal detections were consistent with historical results. PCBs continue to be absent from this well. All detections were at concentrations below the applicable groundwater standard.

Overall, the analytical results indicate stable concentrations of the contaminants of concern from 2015 to 2021.

Table 3-1 Analytical Summary Table

LOCATION			MW-1	MW-2	MW-4R	MW-5	MW-6
SAMPLING DATE	NY-TOGS-GA	Units	7/15/2021	7/15/2021	7/15/2021	7/16/2021	7/16/2021
Semivolatile Organics							
2-Methylnaphthalene						0.05 J	
Acenaphthene	20	µg/l	0.1 J			0.05 J	0.14
Acenaphthylene						0.13	
Anthracene	50	µg/l	0.02 J		0.03 J	0.14	0.02 J
Benzo(a)anthracene	0.002	µg/l			0.09 J	0.5	0.03 J
Benzo(a)pyrene	0	µg/l			0.08 J	0.57	0.02 J
Benzo(b)fluoranthene	0.002	µg/l			0.09 J	0.71	0.03 J
Benzo(ghi)perylene		µg/l			0.05 J	0.47	0.02 J
Benzo(k)fluoranthene	0.002	µg/l			0.08 J	0.25	0.01 J
Chrysene	0.002	µg/l			0.03 J	0.47	0.02 J
Dibenzo(a,h)anthracene		µg/l				0.1 J	
Fluoranthene	50	µg/l	0.03 J		0.15	0.99	0.04 J
Fluorene	50	µg/l	0.02 J		0.02 J	0.06 J	
Indeno(1,2,3-cd)pyrene	0.002	µg/l			0.05 J	0.49	0.02 J
Naphthalene	10	µg/l				0.12	
Phenanthrene	50	µg/l	0.07 J		0.09 J	0.56	0.03 J
Pyrene	50	µg/l	0.03 J		0.15	0.88	0.06 J
Total Metals							
Arsenic, Total	25	µg/l	11.8	0.98	0.54	3.9	1.01
Barium, Total	1000	µg/l	451	86.4	71.35	86.64	42.82
Cadmium, Total	5	µg/l			0.06 J	0.27	0.19 J
Chromium, Total	50	µg/l	0.4 J	0.42 J	0.59 J	4.57	1.32
Lead, Total	25	µg/l	0.67 J	0.49 J	2.45	47.3	12.92
Mercury, Total	0.7	µg/l				0.15 J	
Selenium, Total	10	µg/l			2.94 J		
Silver, Total	50	µg/l				0.2 J	
Polychlorinated Biphenyls							
Aroclor 1248		µg/l	0.067 J			0.135	
Aroclor 1254						0.117	
Total PCBs	0.09	µg/l	0.07 J			0.252	

NOTES:

Samples were collected by CHA Consulting, Inc. on July 15th and 16th, 2021 and analyzed by Alpha Analytical, Inc..
 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-4R					MW-5						MW-6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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NOTES:

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 15, 2021. 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.
- Permanent well casings were installed at all monitoring wells on July 16th, 2021 including flush mount steel casings, J-Plugs, and locks.

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 2020.

The groundwater analytical results from the July 2021 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.

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 RAOs for soil. The results of groundwater sampling conducted in July 2021 indicate that the remedy continues to be effective in achieving the RAOs for groundwater.

Provided the IC/ECs 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.

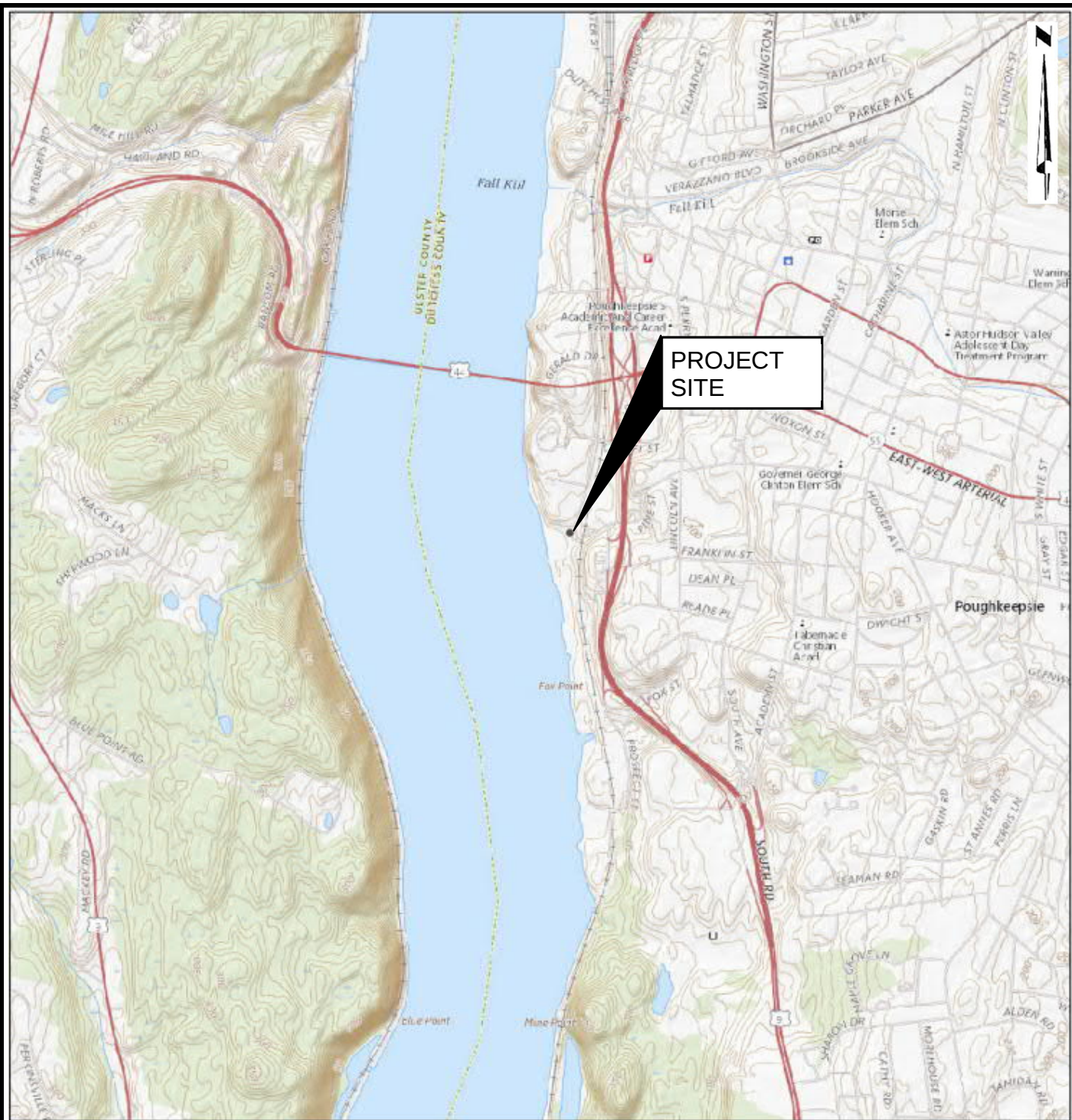
4.3 RECOMMENDATIONS

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 frequency going forward, as follows:

- Reduce the groundwater sampling and inspection frequency from annual to once every five years, based on consistent low detections at the Site. This would require a revision to the current SMP. An annual Site-wide inspection would still be required on an annual basis.

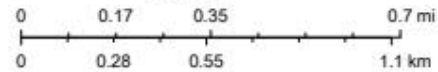
FIGURES

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7/30/2020, 3:19:55 PM

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Source: USGS The National Map

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300 South State Street Suite 600 Syracuse, New York 13202
Main: (315) 471-3920 • www.chacompanies.com

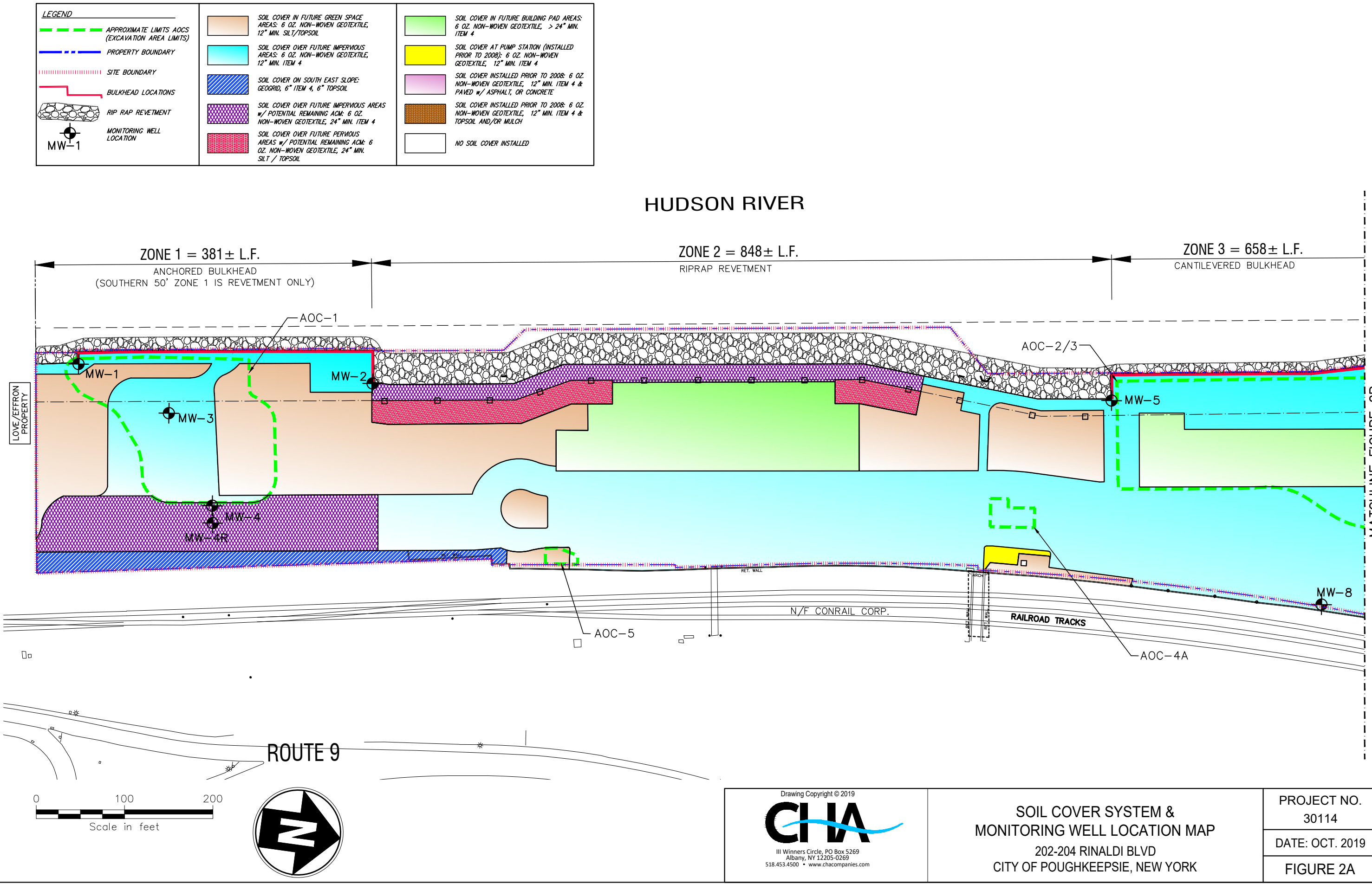
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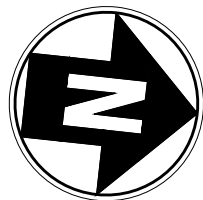
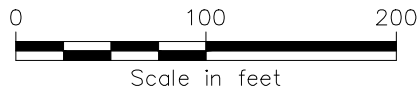
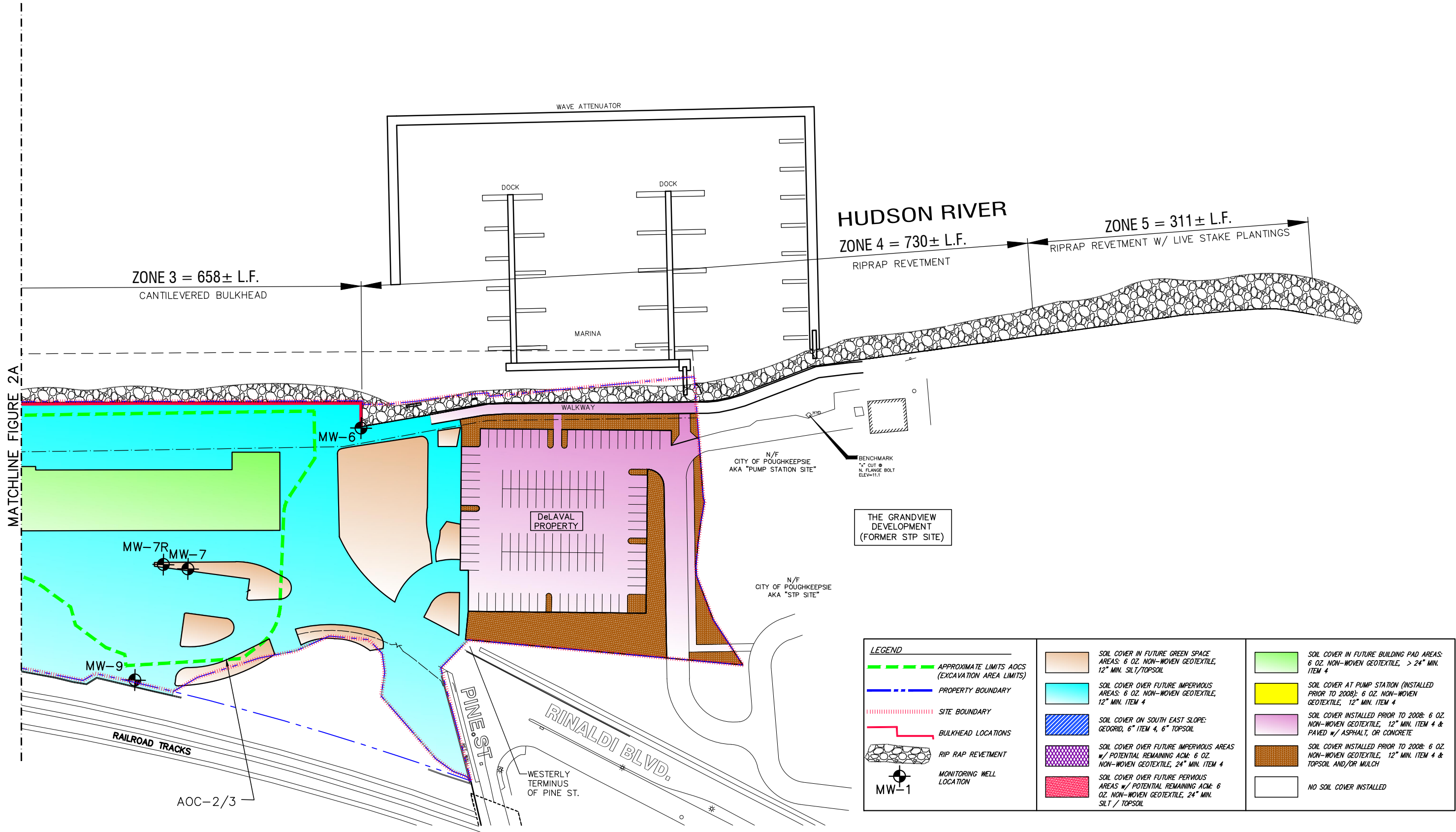
DELAVAL PROPERTY
202-204 RINALDI BOULEVARD
POUGHKEEPSIE, NEW YORK

PROJECT NO.
030114.000

DATE: 09/2021

FIGURE 1





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

Drawing Copyright © 2017 III Winners Circle, PO Box 5269 Albany, NY 12205-0269 518.453.4500 • www.chacompanies.com	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 ROUGHKEEPSIE 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

12/10/2021
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

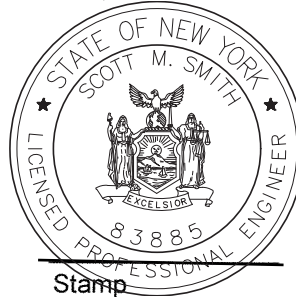
I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

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)

12/13/21

Date

APPENDIX B

Sitewide Inspection Checklist



SITE-WIDE INSPECTION CHECKLIST

Report No. 007

Date: 07/15/2021

Time: 10:00 AM

Site Name: DeLaval ERP Site

NYSDEC Site No. B00190-3

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

Project No. 030114.000

Inspector(s): K. Ehmann

Weather:

Accompanied by Mr. Gerald Pratt of the NYSDEC

Temp.: Hi 85°F Low 72°F

Type of Inspection: ☒ Routine ☐ Post Severe Condition

Time Low Tide: 11:40 AM

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 bulkhead has subsided, similar to previous years' inspections. Photographs unable to be updated because vegetation obscured view.
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 and July 2020 inspections
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.	☒	☐	☐	



SITE-WIDE INSPECTION CHECKLIST

Report No. 007

Date: 07/15/2021

Time: 10:00 AM

There are no exposed or damaged weep hole extension along retaining wall.

☒ ☐ ☐

The backflow preventers in the 36-inch outfall manhole are present/functional.

☒ ☐ ☐

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 locations, significant in one location (see photos). Does not appear to have changed since the 2019 inspection. Corner of concrete cap on bulkhead on far north end has spalled. Potentially damaged by collision with boat. Does not appear to impact the structural integrity of the bulkhead (see photos)

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

☒ ☐ ☐

REVETMENT 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

☒ ☐ ☐



SITE-WIDE INSPECTION CHECKLIST

Report No. 007

Date: 07/15/2021

Time: 10:00 AM

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.	☒	☐	☐	Permanent casings, J-Plugs, and well locks installed on 7/16/2021
Locks present and secured.	☒	☐	☐	Well locks installed on 7/16/2021

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.	☒	☐	☐	Currently vacant
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. Vegetation limited the ability for photos to capture the settling/consolidation of stone material, but the settling/consolidation appears to be similar to previous years.

Multiple J-plugs missing during inspection. Permanent casings were installed at all monitoring wells on 7/16/2021 including flushmount steel casings, j-plugs, and locks.

Signature:

Total Inspection Time: 1 hr

APPENDIX C

Site Photographs



Photograph 1. Site overview facing north.



Photograph 2. Site overview facing south.



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: 07/15/2021



Photograph 3. Looking east from the subject site.



Photograph 4. Looking south from the 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: 07/15/2021



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



Photograph 6. Zone 1 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: 07/15/2021



Photograph 7. Storm drainpipe discharging to the Hudson River.



Photograph 8. Riprap stone along Zone 2.



Photograph 9. Zone 3 Bulkhead appears to be leaning toward the Hudson River.



Photograph 10. Corner of concrete cap on bulkhead on the far north end of the 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: 07/15/2021



Photograph 11. Separation of precast caps on bulkhead on the far north of the subject site.



Photograph 12. Culvert cleared with no visible debris.



Photograph 13. Permanent flushmount well casing, j-plug, and well lock installed at one out of nine monitoring wells. All monitoring wells enhanced with permanent flushmount casings.



Photograph 14. Permanent flush mount well casing installed at one out of nine monitoring wells.



Photograph 15. 55-gallon drum of containerized waste from 2021 environmental monitoring event.



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: 07/16/2021

APPENDIX D

Groundwater Sampling Logs

Appendix D.1
Depth to Groundwater Measurements
DeLaval Property - July 2021 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Measuring Point	Depth to Water	Comments
MW-1	TOR	7.6	No free product
MW-2	TOR	7.44	No free product
MW-3	TOR	10.57	No free product
MW-4R	TOR	19.75	No free product
MW-5	TOR	6.3	No free product
MW-6	TOR	6.35	No free product
MW-7	TOR	10.72	No free product
MW-8	TOR	11.85	No free product
MW-9	TOR	7.19	No free product

Appendix D.2
Sampling Summary
DeLaval Property - July 2021 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	13:30	SVOCs, PCBs, Metals	5	no		
MW-2	Submersible	14:30	SVOCs, PCBs, Metals	5	yes	CHA-1	14:45
MW-4R	Submersible	16:00	SVOCs, PCBs, Metals	5	no		
MW-5	Submersible	8:30	SVOCs, PCBs, Metals	5	no		
MW-6	Submersible	9:30	SVOCs, PCBs, Metals	5	no		

Appendix D.3
Sample Purging Summary
DeLaval Property - July 2021 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	13:03	-307	8.13	0.882	24.4	9.13	21.07
		13:06	-344	8.24	0.893	16.6	8.01	20.53
		13:09	-358	8.24	0.895	8.86	8.55	20.36
		13:12	-368	8.25	0.895	5.83	8.69	20.34
		13:15	-374	8.26	0.895	4.51	8.64	20.34
		13:18	-377	8.27	0.895	4.53	8.47	20.48
		13:21	-380	8.27	0.893	5.47	8.29	20.61
MW-2	Submersible	14:10	-30	7.81	0.849	18.00	20.10	19.03
		14:13	-26	7.81	0.878	12.60	5.07	19.11
		14:16	-24	7.83	0.909	5.73	3.87	18.37
		14:19	-23	7.83	0.934	4.31	3.09	18.53
		14:22	-23	7.85	0.945	3.24	2.72	18.30
		14:25	-24	7.86	0.959	2.64	2.53	18.42
		14:28	-24	7.87	0.968	1.79	2.33	18.29
		14:31	-23	7.88	0.972	1.98	2.31	18.07
MW-4R	Submersible	15:43	40	7.52	2.15	7.51	29.32	17.58
		15:46	36	7.50	2.19	3.50	16.82	16.67
		15:49	36	7.50	2.21	2.39	16.45	15.92
		15:52	37	7.49	2.22	0.93	16.28	15.58
		15:55	38	7.49	2.22	0.62	16.08	15.58
MW-5	Submersible	8:09	-35	8.04	0.415	85.70	9.03	22.05
		8:12	-24	7.92	0.405	89.10	12.86	22.02
		8:15	-16	7.88	0.394	66.30	14.33	22.40
		8:18	-17	7.87	0.398	57.60	16.67	22.85
		8:21	-31	7.88	0.408	45.20	17.77	22.81
		8:24	-32	7.92	0.414	29.70	17.03	23.00
MW-6	Submersible	9:12	-134	8.23	0.331	271.00	18.37	22.39
		9:15	-104	8.16	0.324	233.00	8.23	22.69
		9:18	-104	8.14	0.335	81.50	4.43	22.82
		9:21	-139	8.15	0.348	18.10	2.14	22.80
		9:24	-150	8.15	0.353	6.77	1.88	22.83
		9:27	-161	8.17	0.359	5.60	1.64	22.78
		9:30	-166	8.17	0.362	9.01	1.70	22.80

APPENDIX E

Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L2138311
Client:	CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202
ATTN:	Karyn Ehmann
Phone:	(315) 471-3920
Project Name:	DELAVAL PROPERTY
Project Number:	030114.000.0001007
Report Date:	08/11/21

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2138311-01	MW-1	WATER	POUGHKEEPSIE, NY	07/15/21 13:30	07/16/21
L2138311-02	MW-2	WATER	POUGHKEEPSIE, NY	07/15/21 14:30	07/16/21
L2138311-03	CHA-1	WATER	POUGHKEEPSIE, NY	07/15/21 14:45	07/16/21
L2138311-04	MW-4R	WATER	POUGHKEEPSIE, NY	07/15/21 16:00	07/16/21
L2138311-05	MW-5	WATER	POUGHKEEPSIE, NY	07/16/21 08:30	07/16/21
L2138311-06	MW-6	WATER	POUGHKEEPSIE, NY	07/16/21 09:30	07/16/21
L2138311-07	WC-1	WATER	POUGHKEEPSIE, NY	07/16/21 09:50	07/16/21

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Case Narrative (continued)

Report Submission

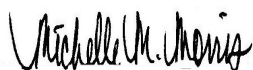
August 11, 2021: This final report includes the results of all requested analyses.

July 23, 2021: This is a preliminary report.

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

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/11/21

ORGANICS

SEMIVOLATILES

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 13:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 14:23
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 13:30
Date Received: 07/16/21
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
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	63		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 13:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 14:31
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.10	J	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	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	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.07	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	0.03	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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 13:30
Date Received: 07/16/21
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	55		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	81		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 14:47
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:30
Date Received: 07/16/21
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
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	49		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	75		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 14:50
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:30
Date Received: 07/16/21
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	41		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	73		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:45
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 15:10
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:45
Date Received: 07/16/21
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
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	52		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	73		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:45
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 15:09
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:45
Date Received: 07/16/21
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	45		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-04
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 16:00
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 15:34
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-04
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 16:00
Date Received: 07/16/21
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
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	49		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	91		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-04
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 16:00
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 15:29
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

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	0.15		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	0.09	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.09	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.08	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	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.09	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	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.15		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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-04
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 16:00
Date Received: 07/16/21
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	47		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	93		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 15:58
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
Date Received: 07/16/21
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
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	56		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	79		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 15:04
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.99		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.12		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.50		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.57		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.71		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.25		ug/l	0.10	0.01	1
Chrysene	0.47		ug/l	0.10	0.01	1
Acenaphthylene	0.13		ug/l	0.10	0.01	1
Anthracene	0.14		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.47		ug/l	0.10	0.01	1
Fluorene	0.06	J	ug/l	0.10	0.01	1
Phenanthrene	0.56		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.10	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.49		ug/l	0.10	0.01	1
Pyrene	0.88		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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
Date Received: 07/16/21
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	48		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	108		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-06
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 16:22
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:48

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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-06
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:30
Date Received: 07/16/21
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
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	46		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	74		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-06
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 15:23
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.14		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	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	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	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	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.06	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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-06
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:30
Date Received: 07/16/21
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	50		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	113		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-07
Client ID: WC-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:50
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/21 16:45
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

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	3.0		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	3.8	J	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	2.7	J	ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-07
Client ID: WC-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:50
Date Received: 07/16/21
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
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	74		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	97		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-07
Client ID: WC-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:50
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/23/21 15:42
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 16:49

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	0.11		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	0.06	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	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	0.01	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.10	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.02	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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-07
Client ID: WC-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:50
Date Received: 07/16/21
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	74		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	109		15-120
2,4,6-Tribromophenol	132	Q	10-120
4-Terphenyl-d14	120		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/21/21 11:13
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1525934-1					
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 PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/21/21 11:13
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1525934-1					
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
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	56		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/22/21 09:59
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1525947-1					
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 PROPERTY**Project Number:** 030114.000.0001007**Lab Number:** L2138311**Report Date:** 08/11/21**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D-SIM
Analytical Date: 07/22/21 09:59
Analyst: JJWExtraction Method: EPA 3510C
Extraction Date: 07/20/21 15:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1525947-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	106		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1525934-2 WG1525934-3								
Bis(2-chloroethyl)ether	38	Q	66		40-140	54	Q	30
3,3'-Dichlorobenzidine	54		65		40-140	18		30
2,4-Dinitrotoluene	62		88		48-143	35	Q	30
2,6-Dinitrotoluene	57		81		40-140	35	Q	30
4-Chlorophenyl phenyl ether	50		76		40-140	41	Q	30
4-Bromophenyl phenyl ether	55		78		40-140	35	Q	30
Bis(2-chloroisopropyl)ether	36	Q	66		40-140	59	Q	30
Bis(2-chloroethoxy)methane	41		71		40-140	54	Q	30
Hexachlorocyclopentadiene	41		76		40-140	60	Q	30
Isophorone	38	Q	66		40-140	54	Q	30
Nitrobenzene	45		76		40-140	51	Q	30
NDPA/DPA	52		73		40-140	34	Q	30
n-Nitrosodi-n-propylamine	40		69		29-132	53	Q	30
Bis(2-ethylhexyl)phthalate	72		77		40-140	7		30
Butyl benzyl phthalate	63		75		40-140	17		30
Di-n-butylphthalate	57		68		40-140	18		30
Di-n-octylphthalate	62		73		40-140	16		30
Diethyl phthalate	55		73		40-140	28		30
Dimethyl phthalate	53		73		40-140	32	Q	30
Biphenyl	43		72		40-140	50	Q	30
4-Chloroaniline	24	Q	40		40-140	50	Q	30
2-Nitroaniline	54		81		52-143	40	Q	30
3-Nitroaniline	44		58		25-145	27		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1525934-2 WG1525934-3								
4-Nitroaniline	59		74		51-143	23		30
Dibenzofuran	46		75		40-140	48	Q	30
1,2,4,5-Tetrachlorobenzene	46		79		2-134	53	Q	30
Acetophenone	39		67		39-129	53	Q	30
2,4,6-Trichlorophenol	51		82		30-130	47	Q	30
p-Chloro-m-cresol	48		73		23-97	41	Q	30
2-Chlorophenol	43		73		27-123	52	Q	30
2,4-Dichlorophenol	45		78		30-130	54	Q	30
2,4-Dimethylphenol	32		58		30-130	58	Q	30
2-Nitrophenol	50		88		30-130	55	Q	30
4-Nitrophenol	59		75		10-80	24		30
2,4-Dinitrophenol	91		109		20-130	18		30
4,6-Dinitro-o-cresol	87		102		20-164	16		30
Phenol	30		48		12-110	46	Q	30
3-Methylphenol/4-Methylphenol	40		68		30-130	52	Q	30
2,4,5-Trichlorophenol	55		81		30-130	38	Q	30
Carbazole	62		76		55-144	20		30
Atrazine	80		94		40-140	16		30
Benzaldehyde	37	Q	65		40-140	55	Q	30
Caprolactam	19		24		10-130	23		30
2,3,4,6-Tetrachlorophenol	58		82		40-140	34	Q	30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1525934-2 WG1525934-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	41		68		21-120
Phenol-d6	32		53		10-120
Nitrobenzene-d5	51		88		23-120
2-Fluorobiphenyl	47		77		15-120
2,4,6-Tribromophenol	72		95		10-120
4-Terphenyl-d14	73		85		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1525947-2 WG1525947-3								
Acenaphthene	97		89		40-140	9		40
2-Chloronaphthalene	95		84		40-140	12		40
Fluoranthene	105		102		40-140	3		40
Hexachlorobutadiene	84		69		40-140	20		40
Naphthalene	89		79		40-140	12		40
Benzo(a)anthracene	100		98		40-140	2		40
Benzo(a)pyrene	109		106		40-140	3		40
Benzo(b)fluoranthene	107		104		40-140	3		40
Benzo(k)fluoranthene	111		108		40-140	3		40
Chrysene	100		98		40-140	2		40
Acenaphthylene	96		86		40-140	11		40
Anthracene	102		96		40-140	6		40
Benzo(ghi)perylene	98		98		40-140	0		40
Fluorene	92		84		40-140	9		40
Phenanthrene	98		94		40-140	4		40
Dibenzo(a,h)anthracene	104		103		40-140	1		40
Indeno(1,2,3-cd)pyrene	99		97		40-140	2		40
Pyrene	104		100		40-140	4		40
2-Methylnaphthalene	93		82		40-140	13		40
Pentachlorophenol	95		92		40-140	3		40
Hexachlorobenzene	97		89		40-140	9		40
Hexachloroethane	81		67		40-140	19		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1525947-2 WG1525947-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		65		21-120
Phenol-d6	59		54		10-120
Nitrobenzene-d5	98		89		23-120
2-Fluorobiphenyl	101		88		15-120
2,4,6-Tribromophenol	81		91		10-120
4-Terphenyl-d14	122		118		41-149

PCBS

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 13:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 21:33
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	0.067	J	ug/l	0.071	0.061	1	B
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.067	J	ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 21:41
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	B
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-03
Client ID: CHA-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 14:45
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 21:49
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	B
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-04
Client ID: MW-4R
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/15/21 16:00
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 21:56
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	B
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 22:04
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	0.135		ug/l	0.071	0.061	1	B
Aroclor 1254	0.117		ug/l	0.071	0.061	1	B
Aroclor 1260	ND		ug/l	0.071	0.061	1	B
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.252		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-06
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:30
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 22:12
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-07
Client ID: WC-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 09:50
Date Received: 07/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/21/21 22:20
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 18:06
Cleanup Method: EPA 3665A
Cleanup Date: 07/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	B
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/20/21 21:15
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 07/19/21 17:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 07/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1525548-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1525548-2 WG1525548-3									
Aroclor 1016	49		75		40-140	42		50	A
Aroclor 1260	50		76		40-140	42		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		49		30-150	A
Decachlorobiphenyl	54		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	33		48		30-150	B
Decachlorobiphenyl	57		86		30-150	B

METALS

Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-01

Date Collected: 07/15/21 13:30

Client ID: MW-1

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.01182		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Barium, Total	0.4513		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Chromium, Total	0.00040	J	mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Lead, Total	0.00067	J	mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 18:40	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:19	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-02

Date Collected: 07/15/21 14:30

Client ID: MW-2

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.00098		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Barium, Total	0.08640		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Chromium, Total	0.00042	J	mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Lead, Total	0.00049	J	mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 18:49	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:24	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-03

Date Collected: 07/15/21 14:45

Client ID: CHA-1

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.00095		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Barium, Total	0.08627		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Chromium, Total	0.00046	J	mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Lead, Total	0.00058	J	mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 18:59	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:29	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-04

Date Collected: 07/15/21 16:00

Client ID: MW-4R

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.00054		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Barium, Total	0.07135		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Chromium, Total	0.00059	J	mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Lead, Total	0.00245		mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 19:03	EPA 7470A	1,7470A	NB
Selenium, Total	0.00294	J	mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:34	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

SAMPLE RESULTS

Lab ID: L2138311-05
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/16/21 08:30
 Date Received: 07/16/21
 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	0.00390		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Barium, Total	0.08664		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00027		mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Chromium, Total	0.00457		mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Lead, Total	0.04730		mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Mercury, Total	0.00015	J	mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 19:06	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD
Silver, Total	0.00020	J	mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:39	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-06

Date Collected: 07/16/21 09:30

Client ID: MW-6

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.00101		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Barium, Total	0.04282		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00019	J	mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Chromium, Total	0.00132		mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Lead, Total	0.01292		mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 19:09	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 15:44	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**SAMPLE RESULTS**

Lab ID: L2138311-07

Date Collected: 07/16/21 09:50

Client ID: WC-1

Date Received: 07/16/21

Sample Location: POUGHKEEPSIE, NY

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	0.00617		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Barium, Total	0.1624		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00013	J	mg/l	0.00020	0.00005	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Chromium, Total	0.00410		mg/l	0.00100	0.00017	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Lead, Total	0.01116		mg/l	0.00100	0.00034	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 19:13	EPA 7470A	1,7470A	NB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/08/21 16:47	EPA 3005A	1,6020B	CD



Project Name: DELAVAL PROPERTY

Lab Number: L2138311

Project Number: 030114.000.0001007

Report Date: 08/11/21

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: WG1525616-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/21/21 04:25	08/05/21 20:59	1,6020B	CD

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: WG1525617-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/21/21 07:15	07/22/21 18:33	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1525616-2								
Arsenic, Total	100		-		80-120	-		
Barium, Total	99		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Lead, Total	98		-		80-120	-		
Selenium, Total	96		-		80-120	-		
Silver, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1525617-2								
Mercury, Total	96		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: DELAVAL PROPERTY

Project Number: 030114.000.0001007

Lab Number: L2138311

Report Date: 08/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07			QC Batch ID: WG1525616-3			QC Sample: L2136618-01			Client ID: MS Sample			
Arsenic, Total	0.00121	0.12	0.1213	100		-	-		75-125	-		20
Barium, Total	0.1741	2	2.134	98		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05271	99		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1922	96		-	-		75-125	-		20
Lead, Total	ND	0.53	0.5074	96		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.119	99		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04985	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-07			QC Batch ID: WG1525617-3			QC Sample: L2138311-01			Client ID: MW-1			
Mercury, Total	ND	0.005	0.00477	96		-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1525616-4 QC Sample: L2136618-01 Client ID: DUP Sample						
Arsenic, Total	0.00121	0.00121	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1525617-4 QC Sample: L2138311-01 Client ID: MW-1						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: DELAVAL PROPERTY**Lab Number:** L2138311**Project Number:** 030114.000.0001007**Report Date:** 08/11/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2138311-01A	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-01B	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-01C	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		SE-6020T(180),BA-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2138311-01D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-01E	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-02A	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-02B	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-02C	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2138311-02D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-02E	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-03A	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-03B	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-03C	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2138311-03D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-03E	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-04A	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-04B	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-04C	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Serial_No: 08112113:46
Lab Number: L2138311
Report Date: 08/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2138311-04D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-04E	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-05A	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-05B	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-LVI(365)
L2138311-05C	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180)
L2138311-05D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-05E	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-06A	Amber 120ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8082-LVI(365)
L2138311-06B	Amber 120ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8082-LVI(365)
L2138311-06C	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2138311-06D	Amber 250ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-06E	Amber 250ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-07A	Amber 120ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8082-LVI(365)
L2138311-07B	Amber 120ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8082-LVI(365)
L2138311-07C	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2138311-07D	Amber 250ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2138311-07E	Amber 250ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: DELAVAL PROPERTY
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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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL PROPERTY
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Footnotes

- 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, Dibenz(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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: 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.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL PROPERTY
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Data Qualifiers

- 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.
- 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.

Project Name: DELAVAL PROPERTY
Project Number: 030114.000.0001007

Lab Number: L2138311
Report Date: 08/11/21

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 19

Published Date: 4/2/2021 1:14:23 PM

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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 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; 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.

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, SM9222D.****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, EPA 537.1.****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.

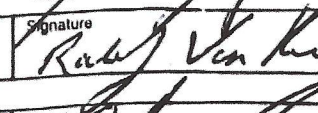
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page		Date Rec'd in Lab <u>7/16/21</u>		ALPHA Job # <u>22138311</u>				
				1 of 1								
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>DeLaval Property</u> Project Location: <u>Poughkeepsie, NY</u> Project # <u>030114.000.0001007</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other				Billing Information ☒ Same as Client Info PO #		
Client Information Client: <u>CHA Consulting</u> Address: <u>300 S State Street</u> <u>Syracuse, NY 13202</u> Phone: <u>315-257-7250</u> Fax: <u>com</u> Standard ☒ Due Date: Email: <u>kehmann@chacompanies.com</u> Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:						
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS SVOCS 8270D-SMVI PCBs 8082A LVI RCRA8 Metals 6016D/7470				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments				Total Bottles		
Please specify Metals or TAL. <u>RCRA8 Metals</u>												
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials							
		Date	Time									
<u>38311 -01</u>	<u>MW-1</u>	<u>7/15/21</u>	<u>13:30</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-02</u>	<u>MW-2</u>	<u>7/15/21</u>	<u>14:30</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-03</u>	<u>CHA-1</u>	<u>7/15/21</u>	<u>14:45</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-04</u>	<u>MW-4R</u>	<u>7/15/21</u>	<u>16:00</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-05</u>	<u>MW-5</u>	<u>7/16/21</u>	<u>8:30</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-06</u>	<u>MW-6</u>	<u>7/16/21</u>	<u>9:30</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>5</u>
<u>-07</u>	<u>WC-1</u>	<u>7/16/21</u>	<u>9:50</u>	<u>W</u>	<u>CHA</u>	<u>X</u>	<u>X</u>	<u>X</u>			<u>5</u>	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>A A P</u> Preservative <u>A A C</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: <u>Paul Mazzella</u>		Date/Time: <u>7/16/21 11:50</u>		Received By: <u>Paul Mazzella</u>		Date/Time: <u>7/16/21 11:50</u>				

APPENDIX F

Waste Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>NIA</u>		Manifest Document No. <u>2021-2074</u>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <u>DeLaval Property</u> <u>Site Address 202 Rinaldi Blvd.</u> <u>Poughkeepsie, NY 12601</u>				Mailing Address: <u>City of Poughkeepsie Engineer</u> <u>62 Civic Center Plaza</u> <u>Poughkeepsie NY 12601</u>			
4. Generator's Phone (845) 451-4192 <u>451-4192</u> <u>ATTN: Joe Kane</u>				A. State Transporter's ID <u>9A-708</u>			
5. Transporter 1 Company Name <u>Corbett Industrial Cleaning Svc. Inc.</u>				B. Transporter 1 Phone <u>518-437-3950</u>			
6. Transporter 1 US EPA ID Number <u>NYR000235168</u>				C. State Transporter's ID			
7. Transporter 2 Company Name				D. Transporter 2 Phone			
8. Transporter 2 US EPA ID Number				E. State Facility's ID			
9. Designated Facility Name and Site Address <u>Veeva Technical Solutions, LLC</u> <u>125 Factory Lane</u> <u>Middlesex, NJ 08846</u>				F. Facility's Phone <u>732-469-5100</u>			
10. US EPA ID Number <u>NJ0002454544</u>							
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type					
a. <u>Non-RCRA Non-DOT Regulated Liquid</u> <u>(Wastewaters)</u>		<u>1 DM</u>		<u>300</u>		<u>P</u>	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above <u>11a) Prof. # 363470 MARWATER - NH</u> <u>Approval</u> <u>CICS Plate # 2466 SNA 1x55</u>				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
							
16. 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.							
Printed/Typed Name <u>JOSEPH KANE</u>		Signature 		Date Month <u>10</u> Day <u>25</u> Year <u>21</u>			
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature 		Date Month <u>10</u> Day <u>29</u> Year <u>21</u>			
Printed/Typed Name <u>Robert Van Housen</u>		Signature 		Date Month <u>10</u> Day <u>26</u> Year <u>21</u>			
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date			
Printed/Typed Name <u>Chris Kranicki</u>							
19. Discrepancy Indication Space							
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name		Signature		Date Month Day Year			

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

