Supplemental Site Investigation Report

Former Northern Circuits Site
6 Adler Drive
East Syracuse, New York
Site #734124

Work Assignment #D009804-8.2

April 2024

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New York State Department of
Environmental Conservation
Region 7
Syracuse, New York

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Northern Circuits, Incorporated
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I, Mark Flusche, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER approved scope of work and any DER approved modifications.



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Acronyms and Abbreviations

bgs	below ground surface
CFC-12	dichlorodifluoromethane (chlorofluorocarbon-12)
CFC-113	1,1,2-trichloro-1,2,2-trifluoroethane (chlorofluorocarbon-113)
cm/sec	centimeters per second
COC	contaminant of concern
CSM	conceptual site model
DCA	dichloroethane
DCE	dichloroethene
DUSR	Data Usability Summary Report
IDW	investigation-derived waste
IRM	interim remedial measure
µg/L	micrograms per liter
mg/L	milligrams per liter
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PID	photoionization detector
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RI	Remedial Investigation
SCO	Soil Cleanup Objective
SGV	Standard and Guidance Value
SVOC	semi-volatile organic compound
TCA	trichloroethane
TCE	trichloroethene
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1 Introduction

This Supplemental Site Investigation (SSI) Report summarizes investigation activities conducted in 2022 at the former Northern Circuits facility located at 6 Adler Drive in East Syracuse, New York (the "site") and nearby properties located east and northeast (hydraulically downgradient) of the site. The SSI was conducted under New York State Department of Environmental Conservation (NYSDEC) State Superfund Standby Contract Work Assignment No. D007618-29. The objective of the SSI was to further delineate the extent of target compound list (TCL) volatile organic compounds (VOCs) and 1,4-dioxane in groundwater beneath and downgradient of the site.

1.1 Site Location and Background

The site is located at 6 Adler Drive in the village of East Syracuse, Town of Dewitt, in Onondaga County, New York (Figure 1) and consists of an approximately 1.3-acre lot with an approximately 11,400-square-foot building (Figures 2A and 2B). The site is zoned for industrial use (Town of Dewitt 2008). From 1975 to 2010, the site was used for circuit board manufacturing, metal plating, and photograph development (HRP Associates, Inc. 2012). The ground surface surrounding the site building is generally flat and consists of an asphalt parking area to the south and west of the building and a grass lawn to the east and north of the building (Figure 2A). The site is located within a mixed residential-commercial/light industrial neighborhood directly north of Interstate 90 and is bordered by commercial, light industrial, and utility right-of-way properties. The study area for this SSI was: the site; the nearby commercial properties at 8 Adler Drive and 10 Adler Drive; the right-of-way along Collamer Drive; and a currently-vacant residential property located approximately 0.1 mile north of the site on Collamer Drive (Figures 2A and 2B).

1.2 Previous Investigations

Previous environmental investigations conducted at the site between 2009 and 2019 identified the following primary contaminants of concern (COCs) for the site (Arcadis U.S., Inc. [Arcadis] 2021):

- cis-1,2-dichloroethene (cis-1,2-DCE);
- 1,1-dichloroethane (1,1-DCA);
- 1,2-dichloroethane (1,2-DCA);
- dichlorodifluoromethane (CFC-12);
- tetrachloroethene (PCE);
- 1,1,1-trichlorethane (1,1,1-TCA);
- 1,1,2-trichloroethane (1,1,2-TCA);
- trichloroethene (TCE);
- 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113);
- trans-1,2-dichloroethene (trans-1,2-DCE)
- vinyl chloride
- 1,1-dichloroethene (1,1-DCE)
- chloroethene

Primary COCs were detected in soil, groundwater, and/or indoor air at concentrations greater than New York State Department of Health (NYSDOH) and NYSDEC applicable standard, also referred to herein as applicable standards and guidance values (SGVs). In general, COCs were detected at the highest concentrations in samples collected on the eastern side of the site in an area associated with a wastewater sump (Sump 3) (Figures 2A through 16) formerly fed by a series of floor drains and overhead pipes from work areas inside the site building. As discussed further in Section 2.1.3, 1,4-dioxane (Figures 15 and 16) is now included as a COC. This list of analytes for this SSI includes the aforementioned primary COCs and is summarized in Section 2.1.3 of this report.

2 Conceptual Site Model

The conceptual site model (CSM) presented below summarizes the site hydrogeology, the results of prior site investigations, the nature and extent of COCs, the inferred sources and migration of COCs, and the potential for exposure to COCs. Additional CSM information and detail are presented in the September 2021 *Remedial Investigation Report* for the site (Arcadis 2021).

2.1 Conceptual Site Model

2.1.1 Site Setting and Background

The site is located at 6 Adler Drive within a mixed residential-commercial/light industrial neighborhood. The site is bordered by commercial, light industrial, and utility right-of-way properties. The nearest residential property area to the site is located approximately 0.1 mile to the north on Collamer Drive.

From 1975 to 2010, the site was used for circuit board manufacturing, metal plating, and photograph development (HRP Associates, Inc. 2012). The *Site Characterization Report* (HRP Associates, Inc. 2012) indicates that chemicals including 1,1,1-TCA, solvents, metal-containing compounds, and various caustic and acidic compounds were historically stored and/or used at the site. The site building is currently unoccupied.

2.1.2 Site Geology and Hydrogeology

Based on field observations, natural overburden materials in the site area are primarily lacustrine deposits overlying till that overlies bedrock (Muller and Caldwell 1986). Bedrock in the area is the Upper Silurian Vernon Formation, which is generally characterized as a sequence of shales and dolostones (Rickard and Fisher 1970). Lacustrine deposits were encountered during the remedial investigation (RI) between approximately 1 and 4 feet below grade and extend to the top of till, which was encountered approximately 17 to 30 feet below grade. Fill material at the site is topsoil, asphalt, and/or concrete. Till deposits beneath the site are generally 1 to 5 feet thick and composed of a compacted hard dry diamicton, characteristic of lodgment till. Very to moderately weathered shale bedrock with horizontal fractures and jointing was encountered from approximately 21 to 35 feet below grade. Auger refusal was typically encountered within 10 feet of the till/weathered bedrock interface.

Groundwater flow in the fill and lacustrine deposits beneath the site is generally to the northeast (Figure 17). Groundwater flow in the weathered bedrock below the till is roughly radial away from a bedrock high under 8 Adler Drive (Figure 18). The differing groundwater flow directions above and below the till indicate that the till is acting as a semi-confining unit. Slug testing results for site wells indicate a hydraulic conductivity in the lacustrine deposits of approximately 9.1×10^{-5} centimeters per second (cm/sec) and in the weathered shale of approximately 3.7×10^{-4} cm/sec. The regional groundwater flow direction is expected to be westward, toward Onondaga Lake. Based on the location and slope of drainage features and runoff observed on site, surface water runoff at the site drains north and intersects a drainage swale near the northern site property line (Figures 2A and 2B), which in turn drains east.

2.1.3 Contaminates of Concern Migration

As discussed in Section 1.2, the primary COCs at the site are halogenated solvents (PCE, TCE, chlorofluorocarbons CFC-113 and CFC-12, and chlorinated ethanes) and their breakdown products. Other solvents (i.e., toluene, methylene chloride, and acetone) and the emerging contaminant 1,4-dioxane also have been detected at concentrations greater than applicable SGVs in some samples from the site. These COCs were likely released through Sump 3 into the lacustrine deposits, where separate-phase and/or dissolved-phase parent COCs appear to have degraded into daughter products and migrated into the underlying till and weathered bedrock. The extent of COCs in soil, groundwater, indoor air, and soil vapor samples collected to date indicates that the primary migration of COCs from the source area is through dissolved-phase COC migration outward from the presumed source area (Sump 3) in the direction of shallow groundwater flow (Figures 3 through 16).

Semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals have been detected at concentrations exceeding applicable SGVs in some samples from the site. However, these detections do not appear to be related to a spill or release at the site, other than a small potential historical release of a metal-containing compound inside the Sump 3 drainage pipe. No metals were detected in groundwater samples collected during the RI at concentrations greater than NYSDEC Class GA standards, and only three groundwater samples collected during the RI contained PCBs at concentrations greater than NYSDEC Class GA standards. As such, metals and PCBs are not considered site COCs.

2.1.4 Potential Source Areas

The highest concentrations of dissolved-phase COCs were detected in groundwater samples collected adjacent to and northeast of Sump 3. The data indicate that the COC release appears to have occurred primarily via the discharge of liquid through and/or near Sump 3. Based on their concentrations in groundwater samples, parent COCs PCE and CFC-113 were likely released as separate-phase liquids; however, no separate-phase liquids were observed during field activities or detected with an oil-water interface probe.

Based on the results of the interim remedial measure (IRM) excavations and site owner comments, a tank and the adjacent soils in the vicinity of Sump 3 were likely removed. It is not known if Sump 3 was previously connected to the site sanitary sewer system; however, the current drainage line appears to drain towards the sewer system. Although the current drainage pipe could not be traced to its discharge point due to obstructions, it appears to connect to the system given its flow direction and the terminus of the line trace. No elevated photoionization detector (PID) readings were noted during observation of the pipe bedding materials, indicating that the current condition of the pipe and adjacent soils are not indicative of a release of COCs through the pipe. It is noted that well HRP-MW-5 installed in this area on July 25, 2011 appears to have penetrated the drainage pipe. It is unknown whether the pipe and bedding materials may have been subsequently replaced . If Sump 3 was historically connected to the sanitary sewer, the sewer line could also be a potential source and preferential pathway for COCs to underlying soil and groundwater.

2.1.5 Nature and Extent of Contaminates of Concern

COCs have been detected at concentrations greater than SGVs in soil, groundwater, soil/sub-slab vapor, and indoor air sample locations shown on Figure 2A, with the highest COC concentrations generally in samples collected near or downgradient of Sump 3 (Figures 3 through 16).

The only COC in subsurface soil samples with a concentration greater than the applicable industrial soil cleanup objective (SCO) was PCE in a sample from 15 to 16 feet below grade in soil boring SB-17 near Sump 3 (Figure 2A). Surface soil samples collected during the RI contained SVOCs at concentrations greater than applicable industrial SCOs. These SVOCs are likely associated with the urban fill at the site rather than a spill or release and are not considered site COCs.

In groundwater, dissolved phase COCs at concentrations greater than NYSDEC Class GA Groundwater Standards were primarily detected in samples collected from the eastern portion of the site, near Sump 3. Concentrations were highest in samples collected along the eastern edge of the site building, near Sump 3, and generally decreased in samples collected downgradient (northeasterly in groundwater above the till and westerly in the weathered bedrock below the till) of the site. VOCs were present at concentrations exceeding NYSDEC Class GA Groundwater Standards in samples collected down and cross gradient (to the southeast) of Sump 3, with the highest VOC concentrations generally observed in samples from the base of the lacustrine sediments or the weathered bedrock (i.e., samples from monitoring wells MW-10D, MW-11S, MW-15S, and MW-7S/D; Figures 3 through 16, 19 and 20). These data indicate that the extent of groundwater impacted by dissolved-phase halogenated VOCs released at the site has not been fully delineated vertically or laterally. Section 3 described the components of this supplemental site investigation (SSI) performed to confirm the results of previous investigations and further delineate the nature and extent of groundwater contamination downgradient of the site to the east and northeast.

SVOCs and other solvent constituents were detected at concentrations greater than SGVs in groundwater samples collected between the site building and 8 Adler Drive, but at lower concentrations than the halogenated VOCs. 1,4-dioxane was detected at concentrations greater than the New York Maximum Contaminant Level in the samples from monitoring wells located downgradient of Sump 3. No COCs were detected at concentrations above SGVs in samples from upgradient wells HRP-MW-1, HRP-MW-2, and MW-14D (Figures 3 through 16 and 20).

Directly east of the site, at 8 Adler Drive, soil samples have contained site COCs at concentrations greater than unrestricted SCOs; however, these detections are attributed to a local source unrelated to a release from the site, based on their distance from Sump 3 and differing analytical results from the site profile.

The highest VOC concentrations in indoor air and sub-slab vapor were detected in samples collected closest to Sump 3 at the site. Indoor air and sub-slab vapor samples were also collected at the adjacent 8 Adler Drive property and are discussed further in Section 2.1.6.3 (Figure 2A).

2.1.6 Exposure Pathways and Receptors

The site building is currently unoccupied. The building at the 8 Adler Drive property directly east of the site is occupied and currently used for various commercial enterprises including office space, storage, and food processing. The outdoor space at both properties is parking lots and lawns. The following subsections summarize potential exposure pathways identified in the *Remedial Investigation Report* for of the site and adjacent 8 Adler Drive property.

2.1.6.1 Soil Exposure Pathway Assessment

Soils containing PCE at concentrations greater than the industrial SCO are present below the site building and at a depth of approximately 15 feet; therefore, a complete exposure pathway does not exist for these soils except for construction and utility workers during excavation.

The surface soils adjacent to parking lots in the northern and southern portions of the site contain SVOCs related to general urban fill used at the site at concentrations greater than the industrial SCOs. These soils are accessible and could potentially pose a risk to human receptor.

2.1.6.2 Groundwater Exposure Pathway Assessment

Groundwater is not known to be used for potable, commercial, agricultural, or industrial purposes at or near the site. The Onondaga County Sanitary Code prevents the use of private water supplies when public water is available without Onondaga County Department of Health approval (Onondaga County Sanitary Code, Article IV, Section B, 2). Public water is available in the Town of Dewitt, which obtains its drinking water from Otisco Lake (approximately 18 miles southwest of the site), Skaneateles Lake (approximately 26 miles southwest of the site), and Lake Ontario (approximately 37 miles northwest of the site) (Town of Dewitt 2016).

Potential human receptors to impacted groundwater at and near the site include construction and utility workers who could be exposed during excavation activities. In addition, persons working in or along the swale, a drainage feature in the northern portion of the site that may a groundwater discharge point, could be exposed if impacted site groundwater discharges to this swale. Complete groundwater exposure pathways include dermal contact, incidental ingestion, and inhalation of vapor for excavation and site workers.

2.1.6.3 Soil Vapor Exposure Pathway Assessment

The basic model for soil vapor intrusion is vertical migration of VOC vapors from a subsurface source to indoor air through cracks, foundation joints, or other openings in the floor exposing indoor workers to elevated VOC concentrations. Although COC concentrations in indoor air samples collected in both the site and 8 Adler Drive buildings were less than applicable NYSDOH air guideline values, a comparison of analytical data to the NYSDOH vapor intrusion guidance decision matrices resulted in a recommendation to mitigate the portion of the site building near Sump 3, to monitor the northern portion of the building at 6 Adler Drive, and to mitigate the central portion of 8 Adler Drive.

3 Supplemental Site Investigation

Between April and August, 2022, Arcadis performed SSI activities to confirm the results of previous investigations and to further delineate the nature and extent of groundwater contamination downgradient of the site to the east and northeast. The SSI was designed to further characterize the nature and downgradient extent of COCs (principally halogenated VOCs) associated with the former circuit board manufacturing, metal plating, and photograph development operations at the site. SSI field activities included a geophysical survey, direct-push soil boring installation, soil core screening with a PID, groundwater monitoring well installation, groundwater sampling, and groundwater hydraulic conductivity measurements. The CSM developed during the RI (summarized in Section 2) was used to develop the SSI scope. The following subsections describe the SSI activities.

Sample collection, handling activities, and quality assurance/quality control (QA/QC) sampling were conducted in accordance with the Generic Quality Assurance Project Plan, which was previously submitted to NYSDEC for work conducted under NYSDEC State Superfund Standby Contract No. D007618. Samples collected during the SSI were analyzed by Pace Analytical Services, LLC. (Pace).

3.1 Soil Borings and Grab Groundwater Sampling

3.1.1 Utility Clearance and Equipment Staging

Utility clearance activities were conducted prior to beginning subsurface investigations. The drilling subcontractor (Parratt-Wolff Inc.) was responsible for underground utility clearance (Dig Safely New York, etc.), and submitted all utility clearance ticket numbers and related correspondence to Arcadis prior to the start of work. The driller also soft cleared (e.g., hand augered) all boring locations to 5 feet below ground surface (bgs) after asphalt removal was completed, in accordance with the Occupational Safety and Health Administration (OSHA)'s Respirable Crystalline Silica Standard for Construction and Arcadis's utility clearance policies.

The Arcadis utility clearance checklist was completed using at least three reliable utility location lines of evidence for each drilling location. Lines of evidence included a combination of public mark outs (only valid as a reliable line of evidence in rights of way); private locate by Allegheny Utility Solutions, LLC; as-built figures; soft clearing; site inspection; and property owner interviews.

Locations of soil borings and monitoring wells installed during the 2022 SSI are shown on Figures 2A and 2B. The private utility locate completed by Allegheny Utility Solutions, LLC consisted of clearing a 10-foot by 10-foot area around each planned location using a combination of ground penetrating radar, radio frequency detection, electromagnetic utility location, and acoustical pipe location as necessary to evaluate the work area. For locations on the 8 Adler Drive and 10 Adler Drive properties, the utilities serving each building were also identified and marked. Additionally, utility services/structures within the right of way adjacent to the borings on Collamer Drive were located and marked. Allegheny Utility Solutions, LLC marked the locations of utilities and/or anomalies detected during the survey using paint (or flags) and provided a drawing showing the locations and depths of anomalies/utilities detected. The geophysical survey is provided in Appendix A.

Staging of drilling equipment and support vehicles and temporary storage of investigation-derived waste (ODW) occurred in a dedicated area at the site.

3.1.2 Soil Borings and Field Screening

Between July 6 and July 19, 2022, nineteen soil borings were advanced using a direct push drilling techniques and a dual tube sampler. Boring locations are shown on Figures 2A and 2B. Thirteen (13) of the 19 borings were advanced to the till, and the remaining six (6) borings were advanced through the till and into weathered bedrock until tooling refusal. Borings were advanced using a rubber tracked drilling rig, and the work area was protected by the drilling subcontractor in accordance with applicable federal, state, and local regulations, as well as the requirements of any permits (e.g., traffic controls for single lane closure). To better understand the geology and further delineate the extent of contamination at each location, recovered core was logged and field screened with a PID by Arcadis field staff. Soil boring notes are provided in Appendix B.

3.1.3 Depth Discrete Groundwater Sampling

Depth-discrete grab groundwater samples were collected from two zones at each soil boring: one at the water table to assess shallow groundwater quality and one either immediately above the till (13 shallow borings) or in a narrow water bearing unit of highly weathered shale bedrock below the semi-confining till (six deep borings) to assess deeper groundwater quality. To the extent practicable, shallow groundwater was isolated from the deeper groundwater during sampling. The samples were collected using a Geoprobe screen point discrete sampler and a peristaltic pump or inertial pump, depending on screen depth. Prior to filling laboratory glassware, the sediment and turbidity of each sample was reduced to the extent practicable without filtration. The screen point sampler was removed from the borehole after sample collection and no sampling infrastructure was left in place.

3.1.4 Soil Boring Abandonment and Equipment Decontamination

Upon the completion of sampling at each soil boring, the boring was pressure grouted with a 3% bentonite cement grout and finished at the surface to match grade with cold patch or topsoil. Following abandonment, each boring location was marked for subsequent survey with either a wooden survey stake (for locations in unpaved areas) or marking paint.

Drilling equipment was decontaminated between boring locations with brushes, soapy water, and a clean water rinse, IDW, including soil, decontamination water, and waste/personal protective equipment (PPE) was placed into UN-approved 55-gallon drums. The drums of IDW were staged on pallets in the western parking lot of the site (Figure 2A), and each was labeled as “non-hazardous” and the following information: contents; generator name (NYSDEC); and Site address (6 Adler Drive). These IDW handling and staging procedures were applied to all SSI field tasks.

3.2 Installation and Development of New Monitoring Wells

Between July 14 and July 22, 2022, nine (9) new groundwater monitoring wells were installed to expand the data defining site groundwater quality and further refine the extent of impacted shallow groundwater downgradient from the site.

3.2.1 Installation and Development of New Monitoring Wells

The new monitoring wells were installed by Parratt-Wolff, under the supervision of Arcadis field staff, using a hollow stem auger (HSA) drill rig with 4.25-inch-diameter tooling. Wells were constructed of 2-inch diameter

Schedule 40 polyvinyl chloride (PVC) risers with 10-foot-long, 0.010-inch machine-slotted Schedule-40 PVC screens. Wells were installed to depths ranging from approximately 15 feet to 20 feet bgs. Each well was sealed using a minimum 2-foot-thick layer of hydrated bentonite above the screen filter sand pack and the remainder of the annulus was grouted to the ground surface with a cement-bentonite grout. Wells were completed as either flush-mounts or, for those in the roadway, with road boxes rated for American Association of State Highway Transportation Officials H-20 loading or higher. Monitoring well construction details information is summarized on Table 1. Monitoring well construction logs are provided in Appendix C.

The driller decontaminated drilling equipment between well locations, and the generated waste was placed into UN-approved 55-gallon steel drums that were subsequentially transported to the on-site staging area.

Between July 26 and July 29, 2022, at least 48 hours after installation, the new monitoring wells were developed to remove fines using a surge block and electric submersible pump. Field parameters (e.g., depth to water, pump rate, volume purged, turbidity and other water quality parameters) were measured and recorded during development. Development was considered complete once the turbidity reading was at or below 50 NTU. Well development logs are provided in Appendix D.

3.3 Monitoring Well Sampling

3.3.1 Groundwater Sampling at Existing Monitoring Wells

Between April 27 and April 29, 2022, Arcadis collected groundwater samples from all 19 existing site monitoring wells (Figure 2B). All monitoring wells were sampled using low-flow methods until water levels and water quality parameters stabilized. Groundwater sampling logs are provided in Appendix E. Samples were submitted to Pace under standard chain of custody procedures for analysis of TCL VOCs by USEPA Method 8260B and 1,4-dioxane by USEPA Method 8270D SIM. Four of the existing wells (MW-6S, MW-6D, MW-11S, and MW-12S) were also sampled for biogeochemical indicator parameters; the locations and parameters were selected based upon historical data and the findings of the RI.

3.3.2 Groundwater Sampling at New Monitoring Wells

Arcadis collected groundwater samples from each of the nine new monitoring wells on July 28 and July 29, 2022. The new monitoring wells were sampled using low flow methods until water levels and water quality parameters stabilized. Groundwater sampling logs are provided in Appendix E. Samples were submitted to Pace under standard chain of custody procedures for analysis of TCL VOCs by USEPA Method 8260B and 1,4-dioxane by USEPA Method 8270D SIM. Five of these wells (MW-16S, MW-16D, MW-19S, MW-20S, and MW-20) were sampled also for biogeochemical indicator parameters; the locations were selected based on the results of the direct push soil boring activities described in Section 3.1.

3.4 Slug Testing at New Monitoring Wells

Arcadis completed slug testing at each of the nine new monitoring wells between August 3 and August 5, 2022. Raising and falling head slug tests were performed following ASTM International guidance, relevant published literature, and Arcadis' experience. The slug tests were performed using a solid slug or a bailer (used for wells screened across the water table that underwent only rising head slug testing). The rising head slug testing used

for monitoring wells screened across the water table because a falling head test assesses the vadose zone rather than the saturated zone in such circumstances. Depth to water measurements during testing were recorded manually (stopwatch and water level meter) and via a data-logging pressure transducer deployed in the test well.

3.5 Survey

Upon completion of the field investigation activities in 2022, the location and elevation of each new boring and groundwater monitoring well installed during the SSI, as well as other relevant site features, were surveyed by YEC, Inc. to the nearest 0.01 foot vertically and 0.1 foot horizontally. Survey information is provided in Table 1 and Appendix F. New survey data were subsequently added to the site base map (Figures 2A and 2B).

3.6 Investigation-Derived Waste

Soil, excess grout, PPE, development and purge water, and other IDW were contained in UN-approved 55-gallon drums), sampled for waste characterization, and staged at a central location at the site while awaiting characterization results and pickup. Characterization sampling results led to the classification of all IDW as non-hazardous waste. IDW was subsequently transported off site for disposal by Veolia ES Technical Solutions, LLC. of West Carrollton, Ohio. Waste manifests are provided in Appendix G.

4 Data Validation

Data validation was performed for the samples collected during the SSI to verify that the that the quality of the data was sufficient to achieve the SSI objective and evaluate remedial alternatives. Data Usability Summary Reports (DUSRs), which were prepared by Data Validation Services of North Creek, New York in accordance with NYSDEC's final DER-10 program policy (Technical Guidance for Site Investigation and Remediation), are provided in Appendix H. Sample processing was conducted in general compliance with the analytical protocol requirements and quality criteria. Data were classified as usable with some minor qualifications.

5 Supplemental Investigation Results

5.1 Field Observations

Ground surface in the investigation area downgradient of the site is composed of asphalt pavement in parking areas and roadways, and grassy or landscaped areas that are generally flat and free of debris. The geology is consistent with observations on site, and generally consists of less than 1 foot of fill material (topsoil, asphalt, and/or concrete) overlying approximately 25 feet of lacustrine deposits composed primarily of interbedded fine sand and silt. The lacustrine deposits are underlain by 1 to 5 feet of till, beneath which is a very to moderately weathered shale bedrock. Based on the depth of auger refusal during the SSI, the top of competent bedrock was encountered at 24 to 32 feet below grade.

No elevated PID readings were measured for soils or weathered bedrock recovered from borings in this SSI. No olfactory or visual evidence of COC impacts were observed in the soil borings.

5.2 Hydrogeology

Existing and new monitoring wells were gauged on August 5, 2022. Results are presented on Table 2 and shown on Figures 17 and 18.

As shown on Figure 17, shallow overburden groundwater flow in the study area was to the east-northeast, consistent with previous events. The interpreted groundwater flow direction in the till and weathered bedrock (deep groundwater) is shown on Figure 18. In August 2022, the groundwater flow direction in the till and weathered bedrock was generally radially outward from well MW-8D, consistent with gauging results in March 2016 and November 2018 (Arcadis 2021). This deeper groundwater flow direction mimics the dip of the till/weathered bedrock contact, which is radially outward from well MW-8D toward the west, northwest, and southwest.

As discussed in Section 3.4, hydraulic conductivity tests were conducted at a representative subset of shallow and deep wells during the SSI. Results of these tests are summarized in Table 3. The slug test data sheets are provided in Appendix I. and the slug test analysis sheets are provided in Appendix J. The rising and falling head tests, and replicate tests, generally yielded repeatable estimates of hydraulic conductivity. Hydraulic conductivity results at the shallow-screened wells ranged from 9.0×10^{-5} to 1.3×10^{-4} cm/sec with a geometric mean of 1.3×10^{-4} cm/sec. Hydraulic conductivity results at the till/weathered bedrock-screened wells ranged from 9.3×10^{-3} to 1.9×10^{-3} cm/sec with a geometric mean of 3.8×10^{-3} cm/sec. The higher conductivities estimated at the deeper wells are likely due to lateral flow along horizontal joints in the weathered shale.

5.3 Laboratory Results Compared to Standards

The laboratory analytical data package are provided in Appendix K.

5.3.1 Depth Discrete Groundwater Sampling

The depth discrete groundwater samples were collected from the following depth intervals at select locations: shallow (S) samples were collected at the water table; intermediate (I) samples were collected from the water

bearing unit just above the till; and deep (D) samples were collected below the top of till in the till and/or weathered bedrock. The laboratory results for depth discrete groundwater samples are summarized in Table 4; Figure 19 provides a summary of detected VOC concentrations.

5.3.1.1 Collamer Drive Transect

This transect was sampled sequentially from east to west starting at SB-34 (located at the corner Collamer Drive and Kinne Street) and ending at SB-41 (located approximately due north of 8 Adler Drive). The soil borings were advanced in the Collamer Drive roadway.

- SB-34: A shallow and deep groundwater sample were collected from this location, and no VOCs were detected above laboratory reporting limits.
- SB-35: A shallow and intermediate groundwater sample were collected from this location. Acetone was the only VOC detected in the shallow sample at concentration of 9.9 micrograms per liter (ug/l) which is below the NYSDEC Class GA standard of 50 ug/l.

  No VOCs were detected above laboratory reporting limits in the intermediate groundwater sample collected just above the till at SB-35.
- SB-36: Two VOCs (2-Butanone at 10.4 ug/l and acetone at 10.6 ug/l) were detected at concentrations below NYSDEC standards in the shallow groundwater at SB-36.

  No VOCs were detected above laboratory reporting limits in the intermediate at this location.
- SB-37: Shallow and intermediate samples were collected from this location, and no VOCs were detected above laboratory reporting limits in either sample.
- SB-38: Like SB-37, a shallow and intermediate sample were located at this location, and no VOCs were detected above laboratory reporting limits in either sample.
- SB-39: Acetone (6.1 ug/l) was detected at a concentration below the NYSDEC standard in the intermediate sample, and no VOCs were detected above laboratory reporting limits in the shallow groundwater sample from this location.
- SB-40: Chloroform was detected at 4.3 ug/l in the shallow groundwater at SB-40, which is below its NYSDEC GA standard of 7 ug/l. No VOCs were detected above laboratory reporting limits in the intermediate sample collected just above the till at this location.
- SB-41: In the deep groundwater sample at this location, one VOC (acetone at 15.1 ug/l) was detected and one had an estimated concentration (2-Butanone at 5 ug/l), and both were below NYSDEC GA standard.

  No VOCs were detected above laboratory reporting limits in the shallow groundwater sample from this location.

Only three VOCs (acetone, 2-butanone, and chloroform) were detected in groundwater samples collected along the Collamer Drive transect, and none of the detected VOCs exceeded their respective NYSDEC GA standards. Based upon these results, three monitoring wells (MW-18S, MW-19S, and MW-19D) were installed along this transect and sampled during the SSI groundwater monitoring event discussed in Section 5.3.2.

5.3.1.2 Eastern Downgradient Transect at 10 Adler Drive

This transect is located along the eastern edge of 10 Adler Drive. This transect was sampled sequentially from north to south, starting at SB-42 (located at the northeast corner of the property) and ending at SB-56. All soil

boring were completed in the landscaped area along the eastern edge of the 10 Adler Drive parking lot along Kinne Street.

- SB-42: No VOCs were detected above laboratory reporting limits in the shallow groundwater sample collected at this location.

  Chlorobenzene was detected at a concentration of 1.7 ug/l in the intermediate groundwater sample which is below its NYSDEC GA standard of 5 ug/l. No other VOCs were detected above laboratory reporting limits.
- SB-43: No VOCs were detected above laboratory reporting limits in the groundwater at this location (shallow or deep).
- SB-44: No VOCs were detected above laboratory reporting limits in the groundwater at this location (shallow or intermediate).
- SB-56: A shallow, intermediate, and deep sample were collected from this location. Acetone and cis-1,2-dichloroethene (DCE) were reported with estimated concentrations below their respective NYSDEC GA standards. No other VOCs were detected above laboratory reporting limits in the shallow groundwater sample.

  1,1-dichloroethane (DCA) was detected at a concentration of 1.8 ug/l below its NYSDEC GA standard of 5 ug/l in the intermediate groundwater sample, and cis 1,2-DCE had an estimated concentration of 0.97 ug/l.

  Acetone was reported with an estimated concentration of 11 ug/l in the deep sample. No other VOCs were detected above laboratory reporting limits in the deep sample.

Acetone, chlorobenzene, cis 1,2-DCE, and 1,1-DCE were detected above laboratory reporting limits in samples collected along this transect; all detected concentrations were below NYSDEC GA standards. Based upon these results, one monitoring well (MW-17S) was installed at the SB-42 location (MW-17S) and sampled during the SSI groundwater monitoring event discussed in Section 5.3.2.

5.3.1.3 Western Downgradient Transect at 10 Adler Drive

This transect is located along the western edge of the parking area between the site and 10 Adler Drive. The transect was sampled sequentially from north to south, starting at SB-45 (located at the northeast corner of the property) and ending at SB-49 (located east of site monitoring well MW-13S).

- SB-45: A shallow and intermediate groundwater sample were collected from this location. 1,1-DCA was the only VOC detected in the shallow sample. 1,1-DCA was detected at a concentration of 3.4 ug/l which is below its NYSDEC Class GA standard of 5 ug/l.

  No VOCs were detected above laboratory reporting limits in the intermediate groundwater sample collected just above the till at SB-45.
- SB-46: No VOCs were detected above laboratory reporting limits in the groundwater at this location (shallow or intermediate).
- SB-47: No VOCs were detected above laboratory reporting limits in the groundwater at this location (shallow or deep).
- SB-48: No VOCs were detected above laboratory reporting limits in the shallow groundwater sample collected at this location.

  Three VOCs 1,1,1-trichloroethane (TCA), 1,1-DCA, and 1,1-DCE were detected above laboratory reporting limits in the intermediate sample collected at this location. Two (1,1-DCA at 17.2 ug/l and 1,1-DCE at 10.2

ug/l) of the three were detected at concentrations exceeding their respective NYSDEC GA standards (5 ug/l for both 1,1-DCA and 1,1-DCE). No other VOCs were detected above laboratory reporting limits.

- SB-49: Like SB-48, no VOCs were detected above laboratory reporting limits in the shallow groundwater sample, and three VOCs (1,1,1-TCA, 1,1-DCA, and 1,1-DCE) were detected above laboratory reporting limits in the intermediate sample collected at this location. However, only 1,1-DCA at 66.8 ug/l exceeded its NYSDEC GA standard of 5 ug/l.
- SB-53: Two VOCs (acetone and CFC-12) were reported with estimated concentrations in the shallow groundwater sample collected at this location. Both estimated concentrations were below the NYSDEC GA standards.

  Three VOCs (1,1-DCA, chloroethane, and cis-DCE) were reported with estimated concentrations below NYSDEC GA standards in the deep sample at SB-53.

  SB-54 and SB-55 are not located exactly along this transect but are southeast of the building at 10 Adler Drive in a paved parking area.
- SB-54: No VOCs were detected above laboratory reports limits in the SB-54 shallow groundwater sample.

  Seven VOCs typically associated with gasoline releases were reported with estimated concentrations below NYSDEC standards, and only 1,2,4-trimethylbenzene (typically associated with gasoline releases) was detected above laboratory reporting limits. 1,2,4-trimethylbenzene was detected at a concentration of 2.7 ug/l which is below the NYSDEC GA standard of 5 ug/l.

  No VOCs were detected above laboratory reporting limits in the deep groundwater at SB-54.
- SB-55: Acetone had an estimate concentration of 2.9 ug/l, which below its NYSDEC GA standard of 50 ug/l. No other VOCs were detected in the shallow sample at this location.

  In the intermediate groundwater sample six VOCs had estimated concentrations, all of which are below standards. Bromodichloromethane and chlorodibromomethane were detected above laboratory reporting limits, but well below their respective NYSDEC GA standard of 50 ug/l.

  1,1-DCA was reported with an estimated concentration of 0.2 ug/l, below NYSDEC GA standard of 5 ug/l. No other VOCs were detected above laboratory reporting limits.

VOCs 1,1-DCA and 1,1-DCE exceeded their NYSDEC GA standards in the intermediate and deep groundwater samples collected from SB-48 and SB-53, respectively). Based upon those results, four monitoring wells (MW-16S, MW-16D, MW-20S, and MW-20D) were installed along this transect and sampled during the SSI groundwater monitoring event discussed in Section 5.3.2.

5.3.1.4 Additional Delineation Transect at 8 Adler Drive

This transect is located along the eastern edge of the building located at 8 Adler Drive. Three borings (SB-50 through SB-52) were advanced from north to south along this transect.

- SB-50: 1,1,1-TCA was the only VOC detected above laboratory reporting limits in the shallow sample at DB-50. 1,1,1-TCA had a concentration of 1.2 ug/l which is below its NYSDEC GA standard of 5 ug/l.

  Five VOCs were detected above laboratory reporting limits in the intermediate with only two (1,1-DCA at 352 ug/l and 1,1-DCE at 27.5 ug/l) exceeding their respective NYSDEC standard (5 ug/l for both compounds).

- SB-51: In the shallow sample, seven VOCs were detected above laboratory reporting limits. Only two of the detected compounds, 1,1,1-TCA at 5.4 ug/l and benzene at 2.7 ug/l, exceeded their respective NYSDEC GA standards of 5.0 ug/l and 1 ug/l.

  Five VOCs were reported or had estimated concentrations exceeding laboratory reporting limits. 1,1-DCA (834 ug/l), 1,1-DCE (37.3 ug/l), and vinyl chloride (VC) (8.1 ug/l) exceed their NYSDEC GA standards (5 ug/l for 1,1-DCA and 1,1-DCE, and 2 ug/l for VC).
- SB-52: Three VOCs (1,1,1-TCA, 1,1-DCA, and chloroform) were detected above laboratory reporting limits, and each exceeded its respective NYSDEC GA standard in the shallow groundwater. No other VOCs were detected.

  Of the nine VOCs detected in the intermediate groundwater sample from SB-52, five (CFC-13, 1,1-DCA, 1,1-DCE, 1,2 DCA, and cis 1,2-DCE) exceeded their respective NYSDEC GA standards.

Numerous VOCs were detected above their respective NYSDEC GA standards in both the shallow and intermediate groundwater samples collected along this transect. These observations are consistent with the data collected in this area during the RI.

5.3.2 Monitoring Well Groundwater Sample Results

In July 2022, groundwater samples were collected from all monitoring wells on site and in the SSI area (newly installed and existing). The laboratory results for monitoring well groundwater samples are summarized in: Table 5a and Figure 20 (VOCs); Table 5b and Figure 21(1,4-Dioxane); Table 5c and Figure 21 (Biogeochemical Indicator Parameters). Figures 3 through 16 summarize the interpreted extent of key COCs based on monitoring well data from 2022.

5.3.2.1 6 Adler Drive Monitoring Well Sample Results

- HRP-MW-1: VOCs and 1,4-dioxane were not detected above laboratory reporting limits at this location.
- HRP-MW-2: No VOCs were detected above laboratory reporting limits at this location. 1,4-dioxane was detected below its NYSDEC GA standard of 0.35 ug/l.
- HRP-MW-3: VOCs and 1,4-dioxane were not detected above laboratory reporting limits at this location during the 2022 sampling.
- HRP-MW-4: Two VOCs were detected above laboratory reporting limits at HRP-MW-4. Both were reported below their NYSDEC GA standards. 1,4-dioxane was also detected at a concentration less than its NYSDEC GA standard.
- HRP-MW-5: 13 VOCs were detected above laboratory reporting limits. Ten VOCs (1,1,1-TCA [4,450 ug/l], CFC-113 [110 ug/l], 1,1,2-TCA [2.9 ug/l], 1,1-DCA [344 ug/l], 1,1-DCE [126 ug/l], cis-1,2-DCE [102 ug/l], PCE [754 ug/l], toluene [17.7 ug/l], TCE [54.8 ug/l], and VC [5.4 ug/l]) exceeded their respective NYSDEC GA standards. 1,4-dioxane (0.97 ug/l) also exceeded its NYSDEC GA standard.
- MW-1: Two VOCs were detected above laboratory reporting limits, cis-1,2 DCE and TCE, and PCE was reported with an estimated concentration. The estimated concentration of PCE was 825 ug/l exceeding its NYSDEC standard of 5 ug/l. TCE at 33 ug/l and cis-1,2 DCE at 5.6 ug/l exceeded their respective NYSDEC standards of 5 ug/l. 1,4-dioxane was not detected.

- MW-1D: PCE and TCE were the only VOCs detected above laboratory limits at this location. Both compounds (PCE with an estimated concentration of 184 ug/l and TCE at 26.9 ug/l) exceeded their respective NYSDEC GA standards of 5 ug/l. 1,4-dioxane was detected below its NYSDEC GA standard.
- MW-5D: Nine VOCs were detected above laboratory reporting limits (1,1,1-TCA [77.8 ug/l], CFC-113 [141,000 ug/l], 1,1-DCA [5,620 ug/l], CFC-12 [5,310 ug/l], cis-1,2-DCE [21.6 ug/l], PCE [16,400 ug/l], toluene [30.1 ug/l], TCE [2,190 ug/l], and VC [4 ug/l]), all exceeded their respective NYSDEC GA standards. 1,4-dioxane (1.4 ug/l) also exceeded its NYSDEC GA standard.
- MW-6S: TCE (23.5 ug/l), PCE (143 ug/l (estimated)), and cis 1,2-DCE (82.1 ug/l) had concentrations exceeding the applicable standard of 5 ug/l. VC was the only other VOC detected but was at a concentration below its standard. 1,4-dioxane (0.41 ug/l) exceeded its NYSDEC GA standard.

  Calcium was detected at 63 mg/l, and biogeochemical indicator parameters will be used to support future decisions about the site.
- MW-6D: Eight VOCs were detected above laboratory reporting limits. Six (PCE, TCE, cis-1,2-DCE, CFC-12, 1,1-DCA, and CFC-13) exceeded their respective NYSDEC GA standards. Calcium at 89 mg/l was detected at a slightly higher concentration versus MW-6S. 1,4-dioxane (1.6 ug/l) also exceeded its NYSDEC GA standard.
- MW-11S: MW-11S was only analyzed for 1,4-dioxane and biogeochemical indicator parameters. 1,4-dioxane (23 ug/l) exceeded its NYSDEC GA standard. Calcium (90 mg/l) was also detected above the NYSDEC GA standard, biogeochemical indicator parameters will be used to support future decisions about the site.
- MW-14D: VOCs and 1,4-dioxane were not detected above laboratory reporting limits at this location.

Based upon the groundwater sample results summarized in Table 5a and discussed above, most of the VOC and 1,4-dioxane detections at concentrations exceeding the NYSDEC GA standards were in samples collected near the east side of the building at 6 Adler Drive. The highest VOC concentrations were in samples from wells screened in the weathered bedrock or till.

5.3.2.2 8 Adler Drive Monitoring Well Sample Results

- MW-7S: Nine VOCs were detected above laboratory reporting limits (1,1,1-TCA [31.9 ug/l], CFC-113 [110 ug/l], 1,1-DCA [967 ug/l], 1,1-DCE [265 ug/l], 1,2-DCA [4.3 ug/l], CFC-12 [173 ug/l], cis-1,2-DCE [114 ug/l], PCE [48.7 ug/l], TCE [10.2 ug/l], and VC 13.8 ug/l]), all exceeded their respective NYSDEC GA standards. 1,4-dioxane (9.8 ug/l) also exceeded its NYSDEC GA standard.
- MW-7D: Six VOCs were detected above laboratory reporting limits. Four VOCs (CFC-113 [675 ug/l], 1,1-DCA [167 ug/l], CFC-12 [197 ug/l], and PCE [8.5 ug/l]) exceeded their respective NYSDEC GA standards. 1,4-dioxane (13 ug/l) also exceeded its NYSDEC GA standard.
- MW-8S: Eight VOCs were reported with concentrations exceeding laboratory reports, and two had estimated concentrations. Eight compounds (CFC-113 [191 ug/l], 1,1-DCA [265 ug/l], 1,1-DCE [53.8 ug/l], 1,2-DCA [2.1 ug/l], CFC-12 [estimated 194 ug/l], cis-1,2-DCE [67.6 ug/l, PCE [estimated 186 ug/l], and TCE [42.3 ug/l]) had concentrations exceeding their respective NYSDEC GA standards. 1,4-dioxane (0.54 ug/l) also exceeded its NYSDEC GA standard.
- MW-8D: 1,1 DCA was detected at 45.5 ug/l exceeding its NYSDEC GA standard of 5 ug/l. CFC-12 had an estimated concentration of 24 ug/l exceeding its standard of 5 ug/l, as well. No other VOCs were detected above laboratory reporting limits. 1,4-dioxane (1.1 ug/l) also exceeded its NYSDEC GA standard.

- MW-9S: Four VOCs (1,1-DCA (5.9 ug/l), cis-1,2-DCE (6.3 ug/l), PCE (121 ug/l (estimated)), and TCE (24.1 ug/l)) exceeded their NYSDEC GA standard of 5 ug/l. 1,4-dioxane (0.65 ug/l) also exceeded its NYSDEC GA standard. CFC-12 had an estimated concentration below its respective standard.
- MW-9D: Two (1,1-DCA at 78.5 ug/l and CFC-12 at 38.4 ug/l (estimated)) of the four VOCs detected above laboratory reporting limits exceeded their NYSDEC GA standards. 1,4-dioxane (4.9 ug/l) also exceeded its NYSDEC GA standard.
- MW-10S: 1,1-DCA was detected at 320 ug/l, 1,1-DCE was detected at 17.1 ug/l, and chloroethane was detected at 6.5 ug/l, all exceed their standard of 5 ug/l. VC at 2.3 ug/l also exceeded its NYSDEC standard of 2.0 ug/l. Two other VOCs were detected at concentrations below their respective standards. 1,4-dioxane (11 ug/l) exceeded its NYSDEC GA standard.
- MW-10D: Three VOCs were detected above laboratory reporting limits, and CFC-12 was reported with an estimated concentration. 1,1-DCA with a concentration of 64.4 ug/l was the only VOC to exceed its NYSDEC standard of 5 ug/l. 1,4-dioxane (92 ug/l) also exceeded its NYSDEC GA standard.
- MW-12S: Seven VOCs were detected above laboratory reporting limits, 1,1-DCA at 4,020 ug/l, 1,1-DCE at 127 ug/l, 1,2-DCA 3.6 ug/l, chloroethane at 34.7 ug/l, and VC at 20.8 ug/l. and all exceeded their respective NYSDEC GA standards.

  Calcium was detected at 120 mg/l, biogeochemical indicator parameters will be used to support future decisions about the site. 1,4-dioxane (an estimated 110 ug/L) exceeded its NYSDEC GA standard.
- MW-13S: CFC-12 with an estimated concentration of 6.8 ug/l exceeded its NYSDEC standard of 5 ug/l, and chloroethane was detected at a concentration of 5.7 ug/l exceeding it standard of 5 ug/l, as well. The other two detected VOCs had concentrations below their respective standards. 1,4-dioxane (48 ug/L) exceeded its NYSDEC GA standard.

VOCs and 1,4-dioxane were detected in groundwater samples collected at wells installed around the building at 8 Adler Drive, in samples from both the shallow and deep-water bearing zones.

5.3.2.3 10 Adler Drive Monitoring Well Sample Results

- MW-15S: Four VOCs were detected above laboratory reporting limits. Only 1,1-DCA (160 ug/l in a parent and duplicate sample) exceeded its NYSDEC GA standard. 1,4-dioxane (29 ug/L) also exceeded its NYSDEC GA standard.
- MW-16S: Three VOCs were detected, but none had concentrations exceeding NYSDEC standards.

  1,4-Dioxane at MW-16S was not detected above laboratory reporting limits in the SVOC analysis.

  Calcium was detected at 130 mg/l, biogeochemical indicator parameters will be used to support future decisions about the site.
- MW-16D: 1,1-DCA was detected at concentration of 590 ug/l exceeding its NYSDEC standard of 5 ug/l. Acetone (76 ug/l), chloroethane (15 ug/l), and VC (4 ug/l) also had estimated concentrations exceeding their respective standards. One other VOC was detected below its respective NYSDEC GA standard.

  1,4-Dioxane at MW-16D was reported at an estimated concentration (870 ug/l) above the NYSDEC GA standard, and calcium was detected at 250 mg/l. Calcium and the other biogeochemical indicator parameters will be used to support future decisions about the site.

- MW-17S: Two VOCs were detected with acetone at 130 ug/l exceeding its NYSDEC GA standard of 50 ug/l.

  1,4-Dioxane at MW-17S was not detected above laboratory reporting limits in the SVOC analysis.
- MW-20S: Five VOCs were detected at estimated concentrations below their respective NYSDEC GA standards. 1,4-dioxane (20 ug/L) exceeded its NYSDEC GA standard.

  Calcium, detected at 120 mg/l, and other detected biogeochemical indicator parameters will be used to support future decisions about the site.
- MW-20D: Two VOCs were detected. 1,1-DCA had a concentration of 11 ug/l which exceeded its standard of 5 ug/l.

  1,4-Dioxane at MW-20D was detected at concentration (37 ug/l) above its NYSDEC GA Standard in the SVOC analysis.

  This location had the highest calcium concentration at 630 mg/l.

COC concentrations in samples collected from monitoring wells on this property were lower than those in samples collected at 8 Adler Drive; acetone, CFC-12, and 1,4-dioxane were the primary COCs detected. Acetone and chlorinated VOC concentrations exceeded NYSDEC GA standards. Impacts were observed in samples from both shallow and deep-water bearing zone wells; the highest concentrations (those exceeding NYSDEC GA standards) were in samples from the deep wells.

5.3.2.4 Collamer Drive Monitoring Well Sample Results

- MW-18S: One VOC was detected below its GA standard. 1,4-dioxane was also detected below its NYSDEC GA standard.
- MW-19S: Acetone was the only VOC detected above laboratory reporting limits, and its concentration of 76 ug/l exceeded the 50 ug/l NYSDEC GA standard.

  1,4-Dioxane at MW-19S was detected at concentration (2.3 ug/l) above its NYSDEC GA Standard.

  MW-19S had one of the highest calcium concentrations (330 mg/l) of the wells sampled for this parameter.
- MW-19D: Two VOCs were detected above laboratory reporting limits. Acetone (110 ug/l) exceeded its NYSDEC GA standard.

  1,4-Dioxane at MW-19D was detected at concentration (20 ug/l) above its NYSDEC GA Standard in the SVOC analysis.

Acetone is the only VOC to exceed its NYSDEC standard in samples collected from monitoring wells along Collamer Drive, in samples from both the shallow and deep water-bearing zones. 1,4-dioxane was also detected above its standard in samples from both shallow and deep wells in this area.

6 Conceptual Site Model Updates

The following updates to the CSM are based upon the data presented in this report:

- Radial groundwater flow occurs in the weathered bedrock beneath the site, based on the deep potentiometric surface contours (Figure 18).
- The downgradient extent of impacted shallow groundwater from the site has been defined in the northeasterly direction, except for 1,4-dioxane. This determination is based on the relatively low concentrations of COCs in the groundwater samples from new downgradient monitoring wells MW-19S and MW-17S as well as grab groundwater samples from soil borings along Collamer Drive (SB-34 through SB-41) and the eastern side of 10 Adler Drive (SB-42, SB-43, SB-44, and SB-56). The only constituents with concentrations that exceeded a standard in those shallow locations was the common laboratory contaminate acetone in the samples from wells MW-19S and MW-17S and 1,4-dioxane in MW-19S (Figures 19 and 20).
- The downgradient extent of impacted semi-confined groundwater below the top of till and/or in the weathered bedrock has been defined in the northeasterly direction except for 1,4-dioxane, based on the relatively low concentrations of COCs in the groundwater sample from new downgradient monitoring well MW-19D and the deep grab samples from soil borings (SB-34 through SB-44 and SB-56). The only constituent with concentrations that exceeded a standard in those deep locations was 1,4-dioxane in MW-19D.

The SSI and the updated CSM have defined the downgradient extent of VOC-impacted groundwater from the site in the direction of the closest potential receptors, the residential properties northeast of the site.

No additional soil or soil vapor information was collected during the SSI; potential exposure pathways for these media were summarized in the RI report.

7 Conclusions

This SSI further refined the understanding of nature and extent of COCs in the study area, the source and migration of COCs, and potential exposure pathways. The CSM developed during the RI has been updated based on the SSI results (see Section 6) and the site Feasibility Study will now be initiated.

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Tables

Table 1
Summary of Well Construction Information
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Monitoring Well ID	Northing (feet)	Easting (feet)	MP Elevation (ft AMSL)	Surface Elevation (ft AMSL)	Well Diameter (inches)	Screen length (feet)	Top of Screen (feet below grade)	Bottom of Screen (feet below grade)	Bottom of Well (feet below grade)
HRP-MW-1	1128080.03	954318.31	415.55	416.04	2.00	5.00	5.00	10.00	10.00
HRP-MW-2	1128237.48	954275.73	415.49	416.18	2.00	5.00	5.00	10.00	10.00
HRP-MW-3	1128331.00	954332.78	414.90	415.29	2.00	15.00	5.00	20.00	20.00
HRP-MW-4	1128149.26	954359.70	415.79	416.46	2.00	15.00	5.00	20.00	20.00
HRP-MW-5	1128207.72	954373.71	415.48	416.12	2.00	20.00	5.00	25.00	25.00
MW-1	1128271.25	954279.34	416.77	415.85	1.00	10.00	4.40	14.40	14.40
MW-1D	1128284.00	954274.88	415.79	416.01	2.00	4.00	17.00	21.00	21.00
MW-2	1128227.82	954370.43	417.44	415.89	1.00	15.00	7.60	22.60	22.60
MW-5D	1128211.40	954372.68	415.71	415.95	2.00	5.00	27.50	32.50	32.50
MW-6S	1128292.63	954369.46	414.68	414.93	2.00	10.00	15.00	25.00	25.00
MW-6D	1128289.30	954369.92	414.71	415.02	2.00	5.00	28.00	33.00	33.00
MW-7S	1128178.75	954422.17	414.55	415.08	2.00	10.00	13.00	23.00	23.00
MW-7D	1128184.98	954422.09	414.34	415.02	2.00	5.00	29.00	34.00	34.00
MW-8S	1128247.91	954416.82	414.57	414.93	2.00	10.00	10.00	20.00	20.00
MW-8D	1128241.26	954417.31	414.56	414.92	2.00	5.00	23.00	28.00	28.00
MW-9S	1128332.08	954411.07	414.70	414.93	2.00	10.00	11.88	21.88	21.88
MW-9D	1128337.26	954410.40	414.61	414.92	2.00	5.00	29.00	34.00	34.00
MW-10S	1128382.90	954505.81	413.15	414.03	2.00	10.00	17.50	27.50	27.50
MW-10D	1128379.13	954505.76	413.55	414.02	2.00	3.00	31.00	34.00	34.00
MW-11S	1128441.31	954488.65	413.35	413.54	2.00	10.00	13.00	23.00	23.00
MW-12S	1128288.19	954512.46	413.86	414.27	2.00	10.00	13.00	23.00	23.00
MW-13S	1128181.46	954521.94	414.10	414.36	2.00	10.00	14.50	24.50	24.50
MW-14S	1128279.57	954232.68	415.58	415.87	2.00	5.00	10.00	15.00	15.00
MW-15S	1128419.02	954588.89	412.75	413.13	2.00	10.00	16.60	26.60	26.60
MW-16S	1128271.76	954577.69	413.99	414.26	2.00	10.00	7.00	17.00	17.00
MW-16D	1128271.11	954582.21	414.42	414.74	2.00	3.00	27.00	30.00	30.00
MW-17S	1128458.62	954838.62	411.61	411.82	2.00	10.00	14.00	24.00	24.00
MW-18S	1128613.78	954470.77	413.50	414.16	2.00	10.00	11.00	21.00	21.00
MW-19S	1128624.02	954622.94	412.98	413.31	2.00	10.00	19.00	29.00	29.00
MW-19D	1128624.65	954628.61	412.88	413.24	2.00	4.00	36.00	40.00	40.00
MW-20S	1128110.75	954534.79	414.28	414.59	2.00	10.00	9.50	19.50	19.50
MW-20D	1128111.66	954529.19	414.03	414.43	2.00	3.00	34.50	37.50	37.50

Notes:
MP = Measuring point.
ft AMSL = Feet above mean sea level.
ft bMP = Feet below measuring point.
ND = Not detected.
Horizontal Datum: NAD 83.
Vertical Datum: NAVD 88.
Coordinates - New York State Plane, Central Zone.
1. Well MW-9S heaved 0.12 foot after installation. The well construction information has been adjusted to account for this.

Table 2
Summary of Groundwater Elevations
Supplemental Investigation Report
Northern Circuits
NYSDEC Site No. 734124

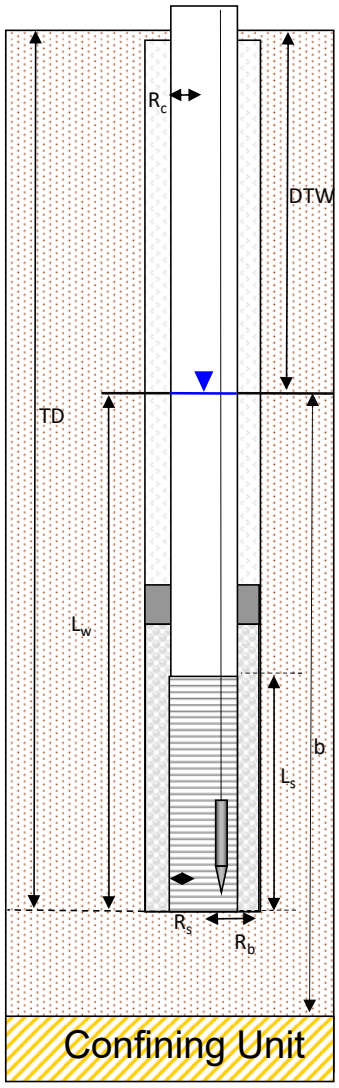
Monitoring Well ID	MP Elevation (ft AMSL)	Depth to Water (ft bMP) 8/5/2022	Water Elevation (ft AMSL) 8/5/2022
HRP-MW-1	415.55	3.81	411.74
HRP-MW-2	415.49	1.92	413.57
HRP-MW-3	414.90	2.85	412.05
HRP-MW-4	415.79	3.91	411.88
HRP-MW-5	415.48	3.59	411.89
MW-1	416.77	3.56	413.21
MW-1D	415.79	6.85	408.94
MW-2	417.44	NA	NA
MW-5D	415.71	8.02	407.69
MW-6S	414.68	3.88	410.80
MW-6D	414.71	5.32	409.39
MW-7S	414.55	3.30	411.25
MW-7D	414.34	6.65	407.69
MW-8S	414.57	3.47	411.10
MW-8D	414.56	3.34	411.22
MW-9S	414.70	3.22	411.48
MW-9D	414.61	5.48	409.13
MW-10S	413.15	2.95	410.20
MW-10D	413.55	5.60	407.95
MW-11S	413.35	2.07	411.28
MW-12S	413.86	3.55	410.31
MW-13S	414.10	3.60	410.50
MW-14S	415.58	2.86	412.72
MW-15S	412.75	0.48	412.27
MW-16S	413.99	3.12	410.87
MW-16D	414.42	5.01	409.41
MW-17S	411.61	2.42	409.19
MW-18S	413.50	3.62	409.88
MW-19S	412.98	2.96	410.02
MW-19D	412.88	3.07	409.81
MW-20S	414.28	2.99	411.29
MW-20D	414.03	6.28	407.75

Notes:
MP = Measuring point.
ft AMSL = Feet above mean sea level.
ft bMP = Feet below measuring point.
NA = Not Applicable.
Vertical Datum: NAVD 88.

Table 3
Slug Test Results
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Well ID	Constructed Screen Interval (ft bgs)	Saturated Thickness[1] (ft)	Screened Interval Description (ft)	Slug Test Type[2]	Hydraulic Conductivity (cm/sec)	Hydraulic Conductivity (ft/day)	Analysis Method
MW-16S	7 - 17	13.60	7-10' SAND and SILT, little gravel, medium firm 10-11' SAND, medium to coarse, some silt, trace gravel 11-16' SAND, fine to medium, some silt, gravel 16-17' SAND, medium, some silt, gravel, stiff	Solid slug	9.0E-05	0.3	KGS
MW-17S	14 - 24	19.98	14-20' SAND and SILT, fine, trace gravel 20-22' SILT, little fine sand, trace gravel 22-22.5' BOULDER, fine, little medium sand, loose 22.5-24' SAND, fine, some silt, little gravel	Solid slug	1.3E-04	0.4	KGS
MW-18S	11 - 21	16.66	11-12' SAND, fine, some to little silt, trace gravel 12-13' SAND, medium, little silt, trace gravel 13-16' SAND, fine to medium, some silt, little to trace gravel 16-18' SAND, medium, some silt, trace gravel 18-18.5' SILT and fine SAND, some gravel 18.5-19' ROCK/GRAVEL, crushed, little sand 19-20.3' BOULDER, weathered, little fine sand, trace silt 20.3-21' SAND and SILT, little gravel	Solid slug	2.7E-05	0.1	KGS
MW-19S	19 - 29	19.48	19-29' SAND, fine, some silt, little to trace gravel	Solid slug	7.8E-04	2.2	KGS
MW-20S	9.5 - 19.5	14.53	9.5'10' SAND, fine, some silt 10-10.4' SAND and SILT, medium 10.4-11' SAND, fine, some silt, trace gravel 11-14' SAND, medium, some silt, little to trace gravel 14-19.5' SAND, fine to medium, some silt, little fine gravel	Solid slug	1.4E-04	0.4	KGS
				Geometric Mean	**1.3E-04**	**0.4**	
				Minimum	**2.7E-05**	**0.1**	
				Maximum	**7.8E-04**	**2.2**	
MW-16D	27 - 30	24.17	27-30' No recovery	Solid slug	1.9E-03	5.4	KGS
MW-19D	36 - 40	35.78	36-36.3' SAND, medium, some silt, little gravel 36.3-40' BEDROCK, weathered, little silt, trace sand, becomes more competent with depth	Solid slug	3.0E-03	8.5	KGS
MW-20D	34.5 - 37.5	30.91	34.5-36' SAND, some silt, little gravel 36-37.5' BEDROCK, little fine sand	Solid slug	9.4E-03	26.6	KGS
				Geometric Mean	**3.8E-03**	**10.7**	
				Minimum	**1.9E-03**	**5.4**	
				Maximum	**9.4E-03**	**26.6**	

Table 3
Slug Test Results
Supplemental Site Investigation Report
Northern Circuits
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Well	Ls	Lw[3]	Rs	Rb	Rc	DTW	TD[4]
MW-16S	10	13.6	0.08	0.34	0.08	3.21	16.81
MW-17S	10	19.98	0.08	0.34	0.08	2.96	22.73
MW-18S	10	16.66	0.08	0.34	0.08	3.85	19.85
MW-19S	10	19.48	0.08	0.34	0.08	3.53	28.68
MW-20S	10	14.53	0.08	0.34	0.08	3.68	17.90
MW-16D	3	24.17	0.08	0.34	0.08	5.01	29.18
MW-19D	4	35.78	0.08	0.34	0.08	3.54	39.32
MW-20D	3	30.91	0.08	0.34	0.08	6.2	36.71

All units in feet btoc

L_s True screen length
L_w Length of water column in Well (TD-DTW)
R_s Screen radius
R_b Radius of filter pack or borehole
R_c Casing radius
DTW Static depth to water below top of casing
TD Total depth of well/screen below top of casing

Notes
ft/bgs = feet below ground surface
ft/day = feet per day
cm/sec = centimeters per second
[1] Saturated thickness based on water column in wells
[2] A 3 ft solid slug was used that was submerged 3 ft.
[3] Water column equivalent to total depth of well and static water level
[4] Total depth of well from measured value

References

Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, vol. 12, no. 3, pp. 423-428.

Bouwer, H., 1989. The Bouwer and Rice slug test--an update, Ground Water, vol. 27, no. 3, pp. 304-309.

Butler Jr, J.J., 2019. The design, performance, and analysis of slug tests. Crc Press.

Hyder, Z, J.J. Butler, Jr., C.D. McElwee and W. Liu, 1994. Slug tests in partially penetrating wells, Water Resources Research, vol. 30, no. 11, pp. 2945-2957.

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	SB-34D 4/21/2022 Groundwater ug/l	SB-34S 4/20/2022 Groundwater ug/l	SB-35I 4/8/2022 Groundwater ug/l	SB-35S 4/7/2022 Groundwater ug/l	SB-36I 4/7/2022 Groundwater ug/l	SB-36S 4/7/2022 Groundwater ug/l	SB-37I 4/7/2022 Groundwater ug/l	SB-37S 4/7/2022 Groundwater ug/l	SB-38I 4/8/2022 Groundwater ug/l	SB-38S 4/8/2022 Groundwater ug/l
VOCs												
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	78-93-3	50	5 UJ	5 UJ	5 UJ	5 U	5 U	**10.4**	5 U	5 U	5 UJ	5 UJ
4-Methyl-2-Pentanone	108-10-1	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	5 UJ	5 UJ	5 U	**9.9**	5 U	**10.6**	5 U	5 U	5 U	5 U
Benzene	71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CFC-12	75-71-8	5	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl-tert-butylether	1634-04-4	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	SB-39I 4/5/2022 Groundwater ug/l	SB-39S 4/5/2022 Groundwater ug/l	SB-40I 4/5/2022 Groundwater ug/l	SB-40S 4/5/2022 Groundwater ug/l	SB-41D 4/6/2022 Groundwater ug/l	SB-41S 4/6/2022 Groundwater ug/l	SB-42I 4/14/2022 Groundwater ug/l	SB-42S 4/14/2022 Groundwater ug/l	SB-43D 4/19/2022 Groundwater ug/l	SB-43S 4/14/2022 Groundwater ug/l
VOCs												
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
2-Butanone (MEK)	78-93-3	50	5 U	5 U	5 U	5 U	**5 J**	5 UJ	1 UJ	1 UJ	1 U	1 UJ
4-Methyl-2-Pentanone	108-10-1	--	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U
Acetone	67-64-1	50	**6.1**	5 U	5 U	5 U	**15.1**	5 UJ	1 U	1 U	1 UJ	1 U
Benzene	71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CFC-12	75-71-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	**1.7**	1 U	1 U	1 U
Chlorodibromomethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	**4.3**	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	--	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ
Methyl-tert-butylether	1634-04-4	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.6**	1 U	1 U
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	SB-44I 4/14/2022 Groundwater ug/l	SB-44S 4/13/2022 Groundwater ug/l	SB-45I 4/15/2022 Groundwater ug/l	SB-45S 4/14/2022 Groundwater ug/l	SB-46I 4/13/2022 Groundwater ug/l	SB-46S 4/13/2022 Groundwater ug/l	SB-47D 4/20/2022 Groundwater ug/l	SB-47S 4/19/2022 Groundwater ug/l	SB-48I 4/13/2022 Groundwater ug/l	SB-48S 4/12/2022 Groundwater ug/l
VOCs												
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.6**	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	**3.4**	1 U	1 U	1 U	1 U	**17.2**	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**10.2**	1 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	78-93-3	50	1 UJ	5 UJ	1 U	1 UJ	5 UJ	5 UJ	5 UJ	1 U	5 UJ	5 U
4-Methyl-2-Pentanone	108-10-1	--	1 U	5 U	1 U	1 U	5 U	5 U	5 U	1 U	5 U	5 U
Acetone	67-64-1	50	1 U	5 U	1 UJ	1 U	5 U	5 U	5 UJ	1 UJ	5 U	5 U
Benzene	71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CFC-12	75-71-8	5	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	--	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	--	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U
Methyl-tert-butylether	1634-04-4	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
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Northern Circuits
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Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	SB-49I 4/13/2022 Groundwater ug/l	SB-49S 4/12/2022 Groundwater ug/l	SB-50I 4/12/2022 Groundwater ug/l	SB-50S 4/12/2022 Groundwater ug/l	SB-51I 4/11/2022 Groundwater ug/l	SB-51S 4/11/2022 Groundwater ug/l	SB-52I 4/11/2022 Groundwater ug/l	SB-52S 4/11/2022 Groundwater ug/l	SB-53D 7/7/2022 Groundwater ug/l	SB-53I 7/7/2022 Groundwater ug/l
VOCs												
1,1,1-Trichloroethane	71-55-6	5	**3.4**	1 U	1 U	**1.2**	1 U	**5.4**	**2.7**	**46.7**	0.17 U	0.17 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U	1 U	1 U	1 U	1 U	1 U	**18.7**	1 U	0.23 UJ	0.23 UJ
1,1-Dichloroethane	75-34-3	5	**66.8**	1 U	**352**	1 U	**834**	**1.5**	**165**	**20.7**	**5.8**	**0.35 J**
1,1-Dichloroethene	75-35-4	5	**1.8**	1 U	**27.5**	1 U	**37.3**	1 U	**65.7**	1 U	0.14 U	0.14 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.12 U	0.12 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	**2.4**	1 U	0.31 U	0.31 U
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.13 U	0.13 U
2-Butanone (MEK)	78-93-3	50	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.6 U	1.6 U
4-Methyl-2-Pentanone	108-10-1	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**12**	1.3 U
Acetone	67-64-1	50	5 U	5 U	**5.3**	5 U	5 U	5 U	5 U	5 U	2 U	2 U
Benzene	71-43-2	1	1 U	1 U	1 U	1 U	1 U	**2.7**	1 U	1 U	0.2 U	0.2 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.18 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 UJ	0.38 UJ
CFC-12	75-71-8	5	1 UJ	1 U	1 UJ	1 U	**1.3 J**	1 U	**4.3**	1 U	0.19 U	0.19 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.11 J**	0.11 U
Chlorodibromomethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.22 U	0.22 U
Chloroethane	75-00-3	5	**1.1**	1 U	1 U	1 U	1 U	**1**	1 U	**14.3**	0.32 U	**0.73 J**
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	**1.7**	1 U	**3**	1 U	**44.1**	1 U	0.15 U	**0.34 J**
Cyclohexane	110-82-7	--	1 UJ	1 U	1 U	1 U	1 U	**3.2**	1 U	1 U	1.8 U	1.8 U
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	**1.3**	1 U	1 U	0.21 U	0.21 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.11 U	0.11 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	--	1 UJ	1 U	1 U	1 U	1 U	**1.5**	1 U	1 U	0.24 U	0.24 U
Methyl-tert-butylether	1634-04-4	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.17 U	0.17 U
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U	1 U	**2.5**	1 U	0.19 U	0.19 U
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	2	1 U	1 U	**1.3**	1 U	**8.1**	1 U	**1.2**	1 U	0.21 U	0.21 U

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
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Northern Circuits
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Sample ID: / Sample Date: / Sample Matrix: / Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	SB-53S 7/5/2022 Groundwater ug/l	SB-54D 7/11/2022 Groundwater ug/l	SB-54I 7/11/2022 Groundwater ug/l	SB-54S 7/5/2022 Groundwater ug/l	SB-55D 7/8/2022 Groundwater ug/l	SB-55I 7/8/2022 Groundwater ug/l	SB-55S 7/5/2022 Groundwater ug/l	SB-56D 7/13/2022 Groundwater ug/l	SB-56I 7/12/2022 Groundwater ug/l	SB-56S 7/5/2022 Groundwater ug/l
VOCs												
1,1,1-Trichloroethane	71-55-6	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	0.23 U	0.23 UJ	0.23 UJ	0.23 U	0.23 UJ	0.23 UJ	0.23 U	0.45 U	0.23 U	0.23 U
1,1-Dichloroethane	75-34-3	5	0.14 U	0.14 U	0.14 U	0.14 U	**0.2 J**	0.14 U	0.14 U	0.28 U	**1.8**	0.14 U
1,1-Dichloroethene	75-35-4	5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.14 U	0.14 U
1,2,4-Trimethylbenzene	95-63-6	5	0.2 U	0.2 U	**2.7**	0.2 U	NA	NA	0.2 U	0.4 U	0.2 U	0.2 U
1,2-Dichlorobenzene	95-50-1	3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.42 J**	0.12 U	0.24 U	0.12 U	0.12 U
1,2-Dichloroethane	107-06-2	0.6	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.62 U	0.31 U	0.31 U
1,3,5-Trimethylbenzene	108-67-8	5	0.11 U	0.11 U	**0.83 J**	0.11 U	NA	NA	0.11 U	0.23 U	0.11 U	0.11 U
1,4-Dichlorobenzene	106-46-7	3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.33 J**	0.13 U	0.26 U	0.13 U	0.13 U
2-Butanone (MEK)	78-93-3	50	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.3 J**	1.6 U	3.2 U	1.6 U	1.6 U
4-Methyl-2-Pentanone	108-10-1	--	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	1.3 U	1.3 U
Acetone	67-64-1	50	**11 J**	2 U	2 U	2 UJ	2 U	2 U	**2.9 J**	**11 J**	2 UJ	**3.4 J**
Benzene	71-43-2	1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U
Bromodichloromethane	75-27-4	50	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	**0.8**	0.18 U	0.36 U	0.18 U	0.18 U
Bromoform	75-25-2	50	0.38 U	0.38 U	0.38 U	0.38 U	0.38 UJ	**1.2 J**	0.38 U	0.77 U	0.38 U	0.38 U
CFC-12	75-71-8	5	**0.7 J**	0.19 UJ	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U
Chlorobenzene	108-90-7	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.57 J**	0.11 U	0.21 U	0.11 U	0.11 U
Chlorodibromomethane	124-48-1	50	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	**0.98**	0.22 U	0.44 U	0.22 U	0.22 U
Chloroethane	75-00-3	5	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.64 U	0.32 U	0.32 U
Chloroform	67-66-3	7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	**2 J**	0.17 U	0.34 U	0.17 U	0.17 U
cis-1,2-Dichloroethene	156-59-2	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	**0.97 J**	**0.8 J**
Cyclohexane	110-82-7	--	NA	NA	NA	NA	1.8 U	1.8 U	NA	NA	NA	NA
Cymene (p-Isopropyltoluene)	99-87-6	5	0.097 U	0.097 U	**0.13 J**	0.097 U	NA	NA	0.097 U	0.19 U	0.097 U	0.097 U
Ethylbenzene	100-41-4	5	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U
Isopropylbenzene	98-82-8	5	0.11 U	0.11 U	**0.16 J**	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U
m&p-Xylenes	ARC-mpXyl	5	0.46 U	0.46 U	**0.81 J**	0.46 U	NA	NA	0.46 U	0.92 U	0.46 U	0.46 U
Methylcyclohexane	108-87-2	--	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.49 U	0.24 U	0.24 U
Methyl-tert-butylether	1634-04-4	10	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U
n-Propylbenzene	103-65-1	5	0.086 U	0.086 U	**0.2 J**	0.086 U	NA	NA	0.086 U	0.17 U	0.086 U	0.086 U
o-Xylene	95-47-6	5	0.23 U	0.23 U	**0.85 J**	0.23 U	NA	NA	0.23 U	0.46 U	0.23 U	0.23 U
sec-Butylbenzene	135-98-8	5	0.11 U	0.11 U	**0.19 J**	0.11 U	NA	NA	0.11 U	0.22 U	0.11 U	0.11 U
Tetrachloroethene	127-18-4	5	0.19 UJ	0.19 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 UJ	0.37 UJ	0.19 UJ	0.19 UJ
Tetrahydrofuran	109-99-9	50	0.49 U	0.49 U	0.49 U	0.49 U	NA	NA	0.49 U	0.98 U	**1.1 J**	0.49 U
Vinyl chloride	75-01-4	2	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	Detection Frequency	Detect Count	Result Count	Detection Frequency (%)	Minimum Detect	Maximum Detect	Max Detect Location	Minimum Non-Detect	Maximum Non-Detect	Median Value	Arithmetic Average
VOCs													
1,1,1-Trichloroethane	71-55-6	5	6/50	6	50	12	1.2	46.7	SB-52S	0.17	1	0.5	1.56
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1/50	1	50	2	18.7	18.7	SB-52I	0.23	1	0.5	0.774
1,1-Dichloroethane	75-34-3	5	12/50	12	50	24	0.2	834	SB-51I	0.14	1	0.5	29.7
1,1-Dichloroethene	75-35-4	5	5/50	5	50	10	1.8	65.7	SB-52I	0.14	1	0.5	3.2
1,2,4-Trimethylbenzene	95-63-6	5	1/17	1	17	5.88	2.7	2.7	SB-54I	0.2	1	0.5	0.471
1,2-Dichlorobenzene	95-50-1	3	1/50	1	50	2	0.42	0.42	SB-55I	0.12	1	0.5	0.403
1,2-Dichloroethane	107-06-2	0.6	1/50	1	50	2	2.4	2.4	SB-52I	0.31	1	0.5	0.458
1,3,5-Trimethylbenzene	108-67-8	5	1/17	1	17	5.88	0.83	0.83	SB-54I	0.11	1	0.5	0.34
1,4-Dichlorobenzene	106-46-7	3	1/50	1	50	2	0.33	0.33	SB-55I	0.13	1	0.5	0.402
2-Butanone (MEK)	78-93-3	50	3/50	3	50	6	3.3	10.4	SB-36S	1	5	2.5	2.05
4-Methyl-2-Pentanone	108-10-1	--	1/50	1	50	2	12	12	SB-53D	1	5	2.5	1.98
Acetone	67-64-1	50	9/50	9	50	18	2.9	15.1	SB-41D	1	5	2.5	3
Benzene	71-43-2	1	1/50	1	50	2	2.7	2.7	SB-51S	0.2	1	0.5	0.45
Bromodichloromethane	75-27-4	50	1/50	1	50	2	0.8	0.8	SB-55I	0.18	1	0.5	0.418
Bromoform	75-25-2	50	1/50	1	50	2	1.2	1.2	SB-55I	0.38	1	0.5	0.45
CFC-12	75-71-8	5	3/50	3	50	6	0.7	4.3	SB-52I	0.19	1	0.5	0.509
Chlorobenzene	108-90-7	5	3/50	3	50	6	0.11	1.7	SB-42I	0.11	1	0.5	0.43
Chlorodibromomethane	124-48-1	50	1/50	1	50	2	0.98	0.98	SB-55I	0.22	1	0.5	0.426
Chloroethane	75-00-3	5	4/50	4	50	8	0.73	14.3	SB-52S	0.32	1	0.5	0.731
Chloroform	67-66-3	7	2/50	2	50	4	2	4.3	SB-40S	0.17	1	0.5	0.516
cis-1,2-Dichloroethene	156-59-2	5	6/50	6	50	12	0.34	44.1	SB-52I	0.15	1	0.5	1.38
Cyclohexane	110-82-7	--	1/42	1	42	2.38	3.2	3.2	SB-51S	1	1.8	0.5	0.602
Cymene (p-Isopropyltoluene)	99-87-6	5	1/8	1	8	12.5	0.13	0.13	SB-54I	0.097	0.19	0.0485	0.0645
Ethylbenzene	100-41-4	5	1/50	1	50	2	1.3	1.3	SB-51S	0.21	1	0.5	0.423
Isopropylbenzene	98-82-8	5	1/50	1	50	2	0.16	0.16	SB-54I	0.11	1	0.5	0.396
m&p-Xylenes	ARC-mpXyl	5	1/8	1	8	12.5	0.81	0.81	SB-54I	0.46	0.92	0.23	0.331
Methylcyclohexane	108-87-2	--	1/50	1	50	2	1.5	1.5	SB-51S	0.24	1	0.5	0.431
Methyl-tert-butylether	1634-04-4	10	1/50	1	50	2	2.6	2.6	SB-42S	0.17	1	0.5	0.444
n-Propylbenzene	103-65-1	5	1/8	1	8	12.5	0.2	0.2	SB-54I	0.086	0.17	0.043	0.0679
o-Xylene	95-47-6	5	1/8	1	8	12.5	0.85	0.85	SB-54I	0.23	0.46	0.115	0.221
sec-Butylbenzene	135-98-8	5	1/8	1	8	12.5	0.19	0.19	SB-54I	0.11	0.22	0.055	0.0788
Tetrachloroethene	127-18-4	5	1/50	1	50	2	2.5	2.5	SB-52I	0.19	1	0.5	0.445
Tetrahydrofuran	109-99-9	50	1/8	1	8	12.5	1.1	1.1	SB-56I	0.49	0.98	0.245	0.383
Vinyl chloride	75-01-4	2	3/50	3	50	6	1.2	8.1	SB-51I	0.21	1	0.5	0.589

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
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Northern Circuits
NYSDEC Site No 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	Geometric Mean	Standard Deviation	Bold Font Results	Italic Font Results	Shaded Results
VOCs							
1,1,1-Trichloroethane	71-55-6	5	0.426	6.58	6/50	0/50	50/50
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	0.383	2.59	1/50	0/50	50/50
1,1-Dichloroethane	75-34-3	5	0.782	128	12/50	0/50	50/50
1,1-Dichloroethene	75-35-4	5	0.449	11.1	5/50	0/50	50/50
1,2,4-Trimethylbenzene	95-63-6	5	0.296	0.606	1/17	0/17	50/17
1,2-Dichlorobenzene	95-50-1	3	0.317	0.182	1/50	0/50	50/50
1,2-Dichloroethane	107-06-2	0.6	0.395	0.315	1/50	0/50	50/50
1,3,5-Trimethylbenzene	108-67-8	5	0.217	0.251	1/17	0/17	50/17
1,4-Dichlorobenzene	106-46-7	3	0.321	0.18	1/50	0/50	50/50
2-Butanone (MEK)	78-93-3	50	1.6	1.57	3/50	0/50	50/50
4-Methyl-2-Pentanone	108-10-1	--	1.5	1.72	1/50	0/50	50/50
Acetone	67-64-1	50	2.03	3.14	9/50	0/50	50/50
Benzene	71-43-2	1	0.356	0.366	1/50	0/50	50/50
Bromodichloromethane	75-27-4	50	0.351	0.177	1/50	0/50	50/50
Bromoform	75-25-2	50	0.417	0.165	1/50	0/50	50/50
CFC-12	75-71-8	5	0.377	0.586	3/50	0/50	50/50
Chlorobenzene	108-90-7	5	0.325	0.259	3/50	0/50	50/50
Chlorodibromomethane	124-48-1	50	0.368	0.178	1/50	0/50	50/50
Chloroethane	75-00-3	5	0.438	1.97	4/50	0/50	50/50
Chloroform	67-66-3	7	0.368	0.615	2/50	0/50	50/50
cis-1,2-Dichloroethene	156-59-2	5	0.425	6.18	6/50	0/50	50/50
Cyclohexane	110-82-7	--	0.553	0.427	1/42	0/42	50/42
Cymene (p-Isopropyltoluene)	99-87-6	5	0.0597	0.0311	1/8	0/8	50/8
Ethylbenzene	100-41-4	5	0.355	0.209	1/50	0/50	50/50
Isopropylbenzene	98-82-8	5	0.305	0.187	1/50	0/50	50/50
m&p-Xylenes	ARC-mpXyl	5	0.294	0.21	1/8	0/8	50/8
Methylcyclohexane	108-87-2	--	0.368	0.222	1/50	0/50	50/50
Methyl-tert-butylether	1634-04-4	10	0.342	0.357	1/50	0/50	50/50
n-Propylbenzene	103-65-1	5	0.0567	0.0554	1/8	0/8	50/8
o-Xylene	95-47-6	5	0.161	0.257	1/8	0/8	50/8
sec-Butylbenzene	135-98-8	5	0.07	0.0489	1/8	0/8	50/8
Tetrachloroethene	127-18-4	5	0.351	0.343	1/50	0/50	50/50
Tetrahydrofuran	109-99-9	50	0.322	0.302	1/8	0/8	50/8
Vinyl chloride	75-01-4	2	0.382	1.11	3/50	0/50	50/50

Table 4
Summary of Depth Discrete Groundwater Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No 734124

Notes:
U = Compound was not detected. The value shown is the laboratory reporting limit.
UJ = Compound was not detected, however the associated numerical value is approximate. The value shown is the laboratory reporting limit.
J = The reported result was an estimated value.
NA = Not Analyzed
1. Bold values indicate a detection.
2. Shaded values indicate a detected concentration greater than the associated standard or guidance value.

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	HRP-MW1 4/28/2022 Groundwater ug/l	HRP-MW2 4/28/2022 Groundwater ug/l	HRP-MW3 4/28/2022 Groundwater ug/l	HRP-MW4 4/28/2022 Groundwater ug/l	HRP-MW5 4/29/2022 Groundwater ug/l	MW-1 4/27/2022 Groundwater ug/l	MW-1D 4/27/2022 Groundwater ug/l	MW-5D 4/29/2022 Groundwater ug/l
VOCs										
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	5	1 U [1 U]	1 U	1 U	1 U	**4450**	1 U	1 U	**77.8**
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U [1 U]	1 U	1 U	**3**	**906**	1 U	1 U	**141000**
1,1,2-Trichloroethane	79-00-5	1	1 U [1 U]	1 U	1 U	1 U	**2.9**	1 U	1 U	1.0 U
1,1-Dichloroethane	75-34-3	5	1 U [1 U]	1 U	1 U	**1.5**	**344**	1 U	1 U	**5620**
1,1-Dichloroethene	75-35-4	5	1 U [1 U]	1 U	1 U	1 U	**126**	1 U	1 U	1.0 U
1,1-Dichloropropene	563-58-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	87-61-6	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2,3-Trichloropropane	96-18-4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.04	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2-Dibromoethane	106-93-4	0.0006	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2-Dichlorobenzene	95-50-1	3	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2-Dichloroethane	107-06-2	0.6	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,2-Dichloropropane	78-87-5	1	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,3,5-Trichlorobenzene	108-70-3	--	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	3	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,3-Dichloropropane	142-28-9	5	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
1,4-Dioxane	123-91-1	0.35	100 UJ [100 UJ]	100 UJ	100 UJ	100 UJ	100 U	100 UJ	100 UJ	100 U
2,2-Dichloropropane	594-20-7	5	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	78-93-3	50	5 U [5 U]	5 U	5 U	5 U	**8.1**	5 UJ	5 UJ	5.0 U
2-Chlorotoluene	95-49-8	5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	5	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	108-10-1	--	5 UJ [5 UJ]	5 UJ	5 UJ	5 UJ	5.0 U	5 U	5 U	5.0 U
Acetone	67-64-1	50	5 U [5 U]	5 U	5 U	5 U	5.0 U	5 UJ	5 UJ	5.0 U
Acrylonitrile	107-13-1	5	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	1	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Bromobenzene	108-86-1	5	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Bromodichloromethane	75-27-4	50	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Bromoform	75-25-2	50	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Bromomethane	74-83-9	5	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	1 UJ	1 UJ	1.0 U
Carbon Disulfide	75-15-0	60	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Carbon Tetrachloride	56-23-5	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
CFC-11	75-69-4	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
CFC-12	75-71-8	5	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	**4.6**	1 UJ	1 UJ	**5310**

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	HRP-MW1 4/28/2022 Groundwater ug/l	HRP-MW2 4/28/2022 Groundwater ug/l	HRP-MW3 4/28/2022 Groundwater ug/l	HRP-MW4 4/28/2022 Groundwater ug/l	HRP-MW5 4/29/2022 Groundwater ug/l	MW-1 4/27/2022 Groundwater ug/l	MW-1D 4/27/2022 Groundwater ug/l	MW-5D 4/29/2022 Groundwater ug/l
VOCs										
Chlorobenzene	108-90-7	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Chlorodibromomethane	124-48-1	50	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Chloroethane	75-00-3	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Chloroform	67-66-3	7	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Chloromethane	74-87-3	5	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	1 U	1 U	1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1 U [1 U]	1 U	1 U	1 U	**102**	**5.6**	1 U	**21.6**
cis-1,3-Dichloropropene	10061-01-5	0.4	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Cyclohexane	110-82-7	--	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	1 UJ	1 UJ	1.0 U
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	74-95-3	5	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	75-09-2	5	1 U [1 U]	1 U	1 U	1 U	**2.1**	1 U	1 U	1.0 U
Diethyl ether	60-29-7	--	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	108-20-3	--	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether	637-92-3	--	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Hexachloro-1,3-butadiene	87-68-3	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	79-20-9	--	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Methyl N-Butyl Ketone (2-Hexanone)	591-78-6	50	5 U [5 U]	5 U	5 U	5 U	5.0 U	5 UJ	5 UJ	5.0 U
Methylcyclohexane	108-87-2	--	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	1 UJ	1 UJ	1.0 U
Methyl-tert-butylether	1634-04-4	10	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
Naphthalene	91-20-3	10	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	104-51-8	5	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	100-42-5	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
tert-Amyl methyl ether	994-05-8	--	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	75-65-0	--	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	98-06-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	**754**	**825 J**	**184 J**	**16400**
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	108-88-3	5	1 U [1 U]	1 U	1 U	1 U	**17.7**	1 U	1 U	**30.1**
Total Xylenes	1330-20-7	5	3 U [3 U]	3 U	3 U	3 U	3.0 U	3 U	3 U	3.0 U
trans-1,2-Dichloroethene	156-60-5	5	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	1 U [1 U]	1 U	1 U	1 U	1.0 U	1 U	1 U	1.0 U
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	79-01-6	5	1 U [1 U]	1 U	1 U	1 U	**54.8**	**33**	**26.9**	**2190**
Vinyl chloride	75-01-4	2	1 U [1 U]	1 U	1 U	1 U	**5.4**	1 U	1 U	**4.0**

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-6D 4/28/2022 Groundwater ug/l	MW-6S 4/28/2022 Groundwater ug/l	MW-7D 4/29/2022 Groundwater ug/l	MW-7S 4/29/2022 Groundwater ug/l	MW-8D 4/27/2022 Groundwater ug/l	MW-8S 4/27/2022 Groundwater ug/l	MW-9D 4/27/2022 Groundwater ug/l	MW-9S 4/27/2022 Groundwater ug/l
VOCs										
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1.0 U	**31.9**	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	**213**	1 U	**675**	**110**	1 U	**191**	1 U	1 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	**85.1**	1 U	**167**	**967**	**45.5**	**265**	**78.5**	**5.9**
1,1-Dichloroethene	75-35-4	5	4.1	1 U	**1.7**	**265**	1 U	**53.8**	**2.1**	1 U
1,1-Dichloropropene	563-58-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	87-61-6	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	96-18-4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.04	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	106-93-4	0.0006	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1.0 U	**4.3**	1 U	**2.1**	1 U	1 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3,5-Trichlorobenzene	108-70-3	--	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	142-28-9	5	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,4-Dioxane	123-91-1	0.35	100 UJ	100 UJ	100 U	100 U	100 UJ	100 UJ	100 UJ	100 UJ
2,2-Dichloropropane	594-20-7	5	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	78-93-3	50	5 U	5 U	5.0 U	5.0 U	5 UJ	5 UJ	5 UJ	5 UJ
2-Chlorotoluene	95-49-8	5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	5	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	108-10-1	--	5 UJ	5 UJ	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	5 U	5 U	5.0 U	5.0 U	5 UJ	5 UJ	5 UJ	5 UJ
Acrylonitrile	107-13-1	5	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	1	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Bromobenzene	108-86-1	5	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	5	1 UJ	1 UJ	1.0 U	1.0 U	1 UJ	1 UJ	1 UJ	1 UJ
Carbon Disulfide	75-15-0	60	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
CFC-11	75-69-4	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
CFC-12	75-71-8	5	**217 J**	1 UJ	**197**	**173**	**24 J**	**194 J**	**38.4 J**	**2.3 J**

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-6D 4/28/2022 Groundwater ug/l	MW-6S 4/28/2022 Groundwater ug/l	MW-7D 4/29/2022 Groundwater ug/l	MW-7S 4/29/2022 Groundwater ug/l	MW-8D 4/27/2022 Groundwater ug/l	MW-8S 4/27/2022 Groundwater ug/l	MW-9D 4/27/2022 Groundwater ug/l	MW-9S 4/27/2022 Groundwater ug/l
VOCs										
Chlorobenzene	108-90-7	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	124-48-1	50	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 UJ	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	5	1 UJ	1 UJ	1.0 U	1.0 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	**18.7**	**82.1**	1.0 U	**114**	1 U	**67.6**	**3.4**	**6.3**
cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	--	1 UJ	1 UJ	1.0 U	1.0 U	1 UJ	1 UJ	1 UJ	1 UJ
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	74-95-3	5	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	75-09-2	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Diethyl ether	60-29-7	--	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	108-20-3	--	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether	637-92-3	--	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Hexachloro-1,3-butadiene	87-68-3	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	79-20-9	--	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	591-78-6	50	5 U	5 U	5.0 U	5.0 U	5 UJ	5 UJ	5 UJ	5 UJ
Methylcyclohexane	108-87-2	--	1 UJ	1 UJ	1.0 U	1.0 U	1 UJ	1 UJ	1 UJ	1 UJ
Methyl-tert-butylether	1634-04-4	10	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Naphthalene	91-20-3	10	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	104-51-8	5	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	NA	NA
Styrene (Monomer)	100-42-5	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
tert-Amyl methyl ether	994-05-8	--	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	75-65-0	--	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	98-06-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5	**143 J**	**13.7 J**	**8.5**	**48.7**	1 UJ	**186 J**	1 UJ	**121 J**
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	108-88-3	5	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Total Xylenes	1330-20-7	5	3 U	3 U	3.0 U	3.0 U	3 U	3 U	3 U	3 U
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U	1.0 U	1.0 U	1 U	**1.3**	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	79-01-6	5	**23.5**	**28.8**	**2.0**	**10.2**	1 U	**42.3**	1 U	**24.1**
Vinyl chloride	75-01-4	2	**1.5 J**	**1**	1.0 U	**13.8**	1 U	**1.4**	1 U	1 U

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-10D 4/27/2022 Groundwater ug/l	MW-10S 4/27/2022 Groundwater ug/l	MW-12S 4/27/2022 Groundwater ug/l	MW-13S 4/27/2022 Groundwater ug/l	MW-14D 4/27/2022 Groundwater ug/l	MW-15S 4/29/2022 Groundwater ug/l	MW-16D 7/29/2022 Groundwater ug/l	MW-16S 7/29/2022 Groundwater ug/l
VOCs										
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	NA	NA	NA	NA	1.8 U	0.18 U
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.75 J
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.3 U	0.13 U
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	1 U	1 U [1 U]	1 U	1 U	1 U	**2.1**	2.3 U	0.23 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.8 U	0.18 U
1,1-Dichloroethane	75-34-3	5	**64.4**	**320 [274]**	**4020**	**1.3**	1 U	**160 [160]**	**590**	**3.5**
1,1-Dichloroethene	75-35-4	5	**4.8**	**17.1 [17.4]**	**127**	1 U	1 U	**3.0**	**4.6 J**	**1.2**
1,1-Dichloropropene	563-58-6	5	NA	NA	NA	NA	NA	NA	1.5 U	0.15 U
1,2,3-Trichlorobenzene	87-61-6	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	3 UJ	0.3 UJ
1,2,3-Trichloropropane	96-18-4	0.04	NA	NA	NA	NA	NA	NA	2.8 U	0.28 U
1,2,4-Trichlorobenzene	120-82-1	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2.5 U	0.25 U
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	NA	NA	NA	NA	2 U	0.2 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	8 UJ	0.8 UJ
1,2-Dibromoethane	106-93-4	0.0006	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.17 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.2 U	0.12 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U [1 U]	**3.6**	1 U	1 U	1.0 U	3.1 U	0.31 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.8 U	0.18 U
1,3,5-Trichlorobenzene	108-70-3	--	NA	NA	NA	NA	NA	NA	2.1 U	0.21 U
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	NA	NA	NA	NA	1.1 U	0.11 U
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.2 U	0.12 U
1,3-Dichloropropane	142-28-9	5	NA	NA	NA	NA	NA	NA	1.3 U	0.13 U
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.3 U	0.13 U
1,4-Dioxane	123-91-1	0.35	100 UJ	100 UJ [100 UJ]	**125 J**	100 UJ	100 UJ	100 U	**1200 J**	21 UJ
2,2-Dichloropropane	594-20-7	5	NA	NA	NA	NA	NA	NA	3.3 U	0.33 U
2-Butanone (MEK)	78-93-3	50	5 UJ	5 UJ [5 UJ]	5 UJ	5 UJ	5 UJ	5.0 U	16 U	1.6 U
2-Chlorotoluene	95-49-8	5	NA	NA	NA	NA	NA	NA	1.1 U	0.11 U
4-Chlorotoluene	106-43-4	5	NA	NA	NA	NA	NA	NA	1.2 U	0.12 U
4-Methyl-2-Pentanone	108-10-1	--	5 U	5 U [5 U]	5 U	5 U	5 U	5.0 U	13 U	1.3 U
Acetone	67-64-1	50	5 UJ	5 UJ [5 UJ]	5 UJ	5 UJ	5 UJ	5.0 U	**76 J**	2 UJ
Acrylonitrile	107-13-1	5	NA	NA	NA	NA	NA	NA	5.5 U	0.55 U
Benzene	71-43-2	1	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2 U	0.2 U
Bromobenzene	108-86-1	5	NA	NA	NA	NA	NA	NA	1.5 U	0.15 U
Bromochloromethane	74-97-5	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	3.1 UJ	0.31 UJ
Bromodichloromethane	75-27-4	50	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.8 U	0.18 U
Bromoform	75-25-2	50	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	3.8 U	0.38 U
Bromomethane	74-83-9	5	1 UJ	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	15 UJ	1.5 UJ
Carbon Disulfide	75-15-0	60	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	14 UJ	1.4 UJ
Carbon Tetrachloride	56-23-5	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.6 U	0.16 U
CFC-11	75-69-4	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.8 U	0.18 U
CFC-12	75-71-8	5	**1.5 J**	1.3 J [1.5 J]	1 UJ	**6.8 J**	1 UJ	1.0 U	1.9 U	0.19 U

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-10D 4/27/2022 Groundwater ug/l	MW-10S 4/27/2022 Groundwater ug/l	MW-12S 4/27/2022 Groundwater ug/l	MW-13S 4/27/2022 Groundwater ug/l	MW-14D 4/27/2022 Groundwater ug/l	MW-15S 4/29/2022 Groundwater ug/l	MW-16D 7/29/2022 Groundwater ug/l	MW-16S 7/29/2022 Groundwater ug/l
VOCs										
Chlorobenzene	108-90-7	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.1 U	0.11 U
Chlorodibromomethane	124-48-1	50	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2.2 U	0.22 U
Chloroethane	75-00-3	5	1 U	**6.5 [5.4]**	**34.7**	**5.7**	1 U	1.0 U	**15 J**	0.32 U
Chloroform	67-66-3	7	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.17 U
Chloromethane	74-87-3	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	5.2 UJ	0.52 UJ
cis-1,2-Dichloroethene	156-59-2	5	1 U	1.7 [1.8]	**10.2**	**3.8**	1 U	1.0 U	1.5 U	0.15 U
cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.6 U	0.16 U
Cyclohexane	110-82-7	--	1 UJ	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	NA	NA
Cymene (p-Isopropyltoluene)	99-87-6	5	NA	NA	NA	NA	NA	NA	0.97 U	0.097 U
Dibromomethane	74-95-3	5	NA	NA	NA	NA	NA	NA	3.5 U	0.35 U
Dichloromethane	75-09-2	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2.3 U	0.23 U
Diethyl ether	60-29-7	--	NA	NA	NA	NA	NA	NA	1.8 U	0.18 U
Di-isopropyl ether	108-20-3	--	NA	NA	NA	NA	NA	NA	1.3 U	0.13 U
Ethyl tert-butyl ether	637-92-3	--	NA	NA	NA	NA	NA	NA	1.5 U	0.15 U
Ethylbenzene	100-41-4	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2.1 U	0.21 U
Hexachloro-1,3-butadiene	87-68-3	0.5	NA	NA	NA	NA	NA	NA	4.6 UJ	0.46 UJ
Isopropylbenzene	98-82-8	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.1 U	0.11 U
m&p-Xylenes	ARC-mpXyl	5	NA	NA	NA	NA	NA	NA	4.6 U	0.46 U
Methyl Acetate	79-20-9	--	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	4.5 U	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	591-78-6	50	5 UJ	5 UJ [5 UJ]	5 UJ	5 UJ	5 UJ	5.0 U	11 U	1.1 U
Methylcyclohexane	108-87-2	--	1 UJ	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	2.4 U	0.24 U
Methyl-tert-butylether	1634-04-4	10	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.17 U
Naphthalene	91-20-3	10	NA	NA	NA	NA	NA	NA	2.4 UJ	0.24 UJ
n-Butylbenzene	104-51-8	5	NA	NA	NA	NA	NA	NA	1.5 U	0.15 U
n-Propylbenzene	103-65-1	5	NA	NA	NA	NA	NA	NA	0.86 U	0.086 U
o-Xylene	95-47-6	5	NA	NA	NA	NA	NA	NA	2.3 U	0.23 U
sec-Butylbenzene	135-98-8	5	NA	NA	NA	NA	NA	NA	1.1 U	0.11 U
Styrene (Monomer)	100-42-5	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.1 U	0.11 U
tert-Amyl methyl ether	994-05-8	--	NA	NA	NA	NA	NA	NA	1.4 U	0.14 U
tert-Butyl alcohol	75-65-0	--	NA	NA	NA	NA	NA	NA	47 U	4.7 U
tert-Butylbenzene	98-06-6	5	NA	NA	NA	NA	NA	NA	1.3 U	0.13 U
Tetrachloroethene	127-18-4	5	1 UJ	1 UJ [1 UJ]	1 UJ	1 UJ	1 UJ	1.0 U	1.9 UJ	0.19 UJ
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	4.9 U	0.49 U
Toluene	108-88-3	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	2.2 U	0.22 U
Total Xylenes	1330-20-7	5	3 U	3 U [3 U]	3 U	3 U	3 U	3.0 U	NA	NA
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.17 U
trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.7 U	0.17 U
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	NA	NA	NA	NA	16 U	1.6 U
Trichloroethene	79-01-6	5	1 U	1 U [1 U]	1 U	1 U	1 U	1.0 U	1.9 UJ	0.19 UJ
Vinyl chloride	75-01-4	2	**1.4**	**2.3 [2]**	**20.8**	1 U	1 U	**1.8**	**4 J**	0.21 U

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-17S 7/28/2022 Groundwater ug/l	MW-18S 7/29/2022 Groundwater ug/l	MW-19D 7/28/2022 Groundwater ug/l	MW-19S 7/28/2022 Groundwater ug/l	MW-20D 7/28/2022 Groundwater ug/l	MW-20S 7/28/2022 Groundwater ug/l	Detection Frequency	Detect Count	Result Count
VOCs											
1,1,1,2-Tetrachloroethane	630-20-6	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	0/8	0	8
1,1,1-Trichloroethane	71-55-6	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	4/30	4	30
1,1,2,2-Tetrachloroethane	79-34-5	5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U [0.13 U]	0/30	0	30
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U [0.23 U]	8/30	8	30
1,1,2-Trichloroethane	79-00-5	1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	1/30	1	30
1,1-Dichloroethane	75-34-3	5	0.14 U	0.14 U	0.14 U	0.14 U	**11**	0.14 U [0.14 U]	18/30	18	30
1,1-Dichloroethene	75-35-4	5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U [0.14 U]	12/30	12	30
1,1-Dichloropropene	563-58-6	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U [0.15 U]	0/8	0	8
1,2,3-Trichlorobenzene	87-61-6	5	0.3 U	0.3 UJ	0.3 U	0.3 U	0.3 U	0.3 U [0.3 U]	0/30	0	30
1,2,3-Trichloropropane	96-18-4	0.04	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U [0.28 U]	0/8	0	8
1,2,4-Trichlorobenzene	120-82-1	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U [0.25 U]	0/30	0	30
1,2,4-Trimethylbenzene	95-63-6	5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0/8	0	8
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.8 U	0.8 UJ	0.8 U	0.8 U	0.8 U	0.8 U [0.8 U]	0/30	0	30
1,2-Dibromoethane	106-93-4	0.0006	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	0/30	0	30
1,2-Dichlorobenzene	95-50-1	3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U [0.12 U]	0/30	0	30
1,2-Dichloroethane	107-06-2	0.6	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U [0.31 U]	3/30	3	30
1,2-Dichloropropane	78-87-5	1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	0/30	0	30
1,3,5-Trichlorobenzene	108-70-3	--	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U [0.21 U]	0/8	0	8
1,3,5-Trimethylbenzene	108-67-8	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	0/8	0	8
1,3-Dichlorobenzene	541-73-1	3	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U [0.12 U]	0/30	0	30
1,3-Dichloropropane	142-28-9	5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U [0.13 U]	0/8	0	8
1,4-Dichlorobenzene	106-46-7	3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U [0.13 U]	0/30	0	30
1,4-Dioxane	123-91-1	0.35	21 U	21 UJ	21 U	21 U	21 U	21 U [21 U]	2/30	2	30
2,2-Dichloropropane	594-20-7	5	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U [0.33 U]	0/8	0	8
2-Butanone (MEK)	78-93-3	50	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U [1.6 U]	1/30	1	30
2-Chlorotoluene	95-49-8	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	0/8	0	8
4-Chlorotoluene	106-43-4	5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U [0.12 U]	0/8	0	8
4-Methyl-2-Pentanone	108-10-1	--	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U [1.3 U]	0/30	0	30
Acetone	67-64-1	50	**130**	**6 J**	**110**	**78**	**43 J**	**15 J [14 J]**	7/30	7	30
Acrylonitrile	107-13-1	5	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U [0.55 U]	0/8	0	8
Benzene	71-43-2	1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0/30	0	30
Bromobenzene	108-86-1	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U [0.15 U]	0/8	0	8
Bromochloromethane	74-97-5	5	0.31 U	0.31 UJ	0.31 U	0.31 U	0.31 U	0.31 U [0.31 U]	0/30	0	30
Bromodichloromethane	75-27-4	50	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	0/30	0	30
Bromoform	75-25-2	50	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U [0.38 U]	0/30	0	30
Bromomethane	74-83-9	5	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U [1.5 U]	0/30	0	30
Carbon Disulfide	75-15-0	60	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U [1.4 U]	0/30	0	30
Carbon Tetrachloride	56-23-5	5	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U [0.16 U]	0/30	0	30
CFC-11	75-69-4	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	0/30	0	30
CFC-12	75-71-8	5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**1.1 J [1.2 J]**	13/30	13	30

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
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Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	MW-17S 7/28/2022 Groundwater ug/l	MW-18S 7/29/2022 Groundwater ug/l	MW-19D 7/28/2022 Groundwater ug/l	MW-19S 7/28/2022 Groundwater ug/l	MW-20D 7/28/2022 Groundwater ug/l	MW-20S 7/28/2022 Groundwater ug/l	Detection Frequency	Detect Count	Result Count
VOCs											
Chlorobenzene	108-90-7	5	0.36 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	1/30	1	30
Chlorodibromomethane	124-48-1	50	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U [0.22 U]	0/30	0	30
Chloroethane	75-00-3	5	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	**1.1 J [0.39 J]**	5/30	5	30
Chloroform	67-66-3	7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	0/30	0	30
Chloromethane	74-87-3	5	0.52 U	0.52 UJ	0.52 U	0.52 U	0.52 U	0.52 U [0.52 U]	0/30	0	30
cis-1,2-Dichloroethene	156-59-2	5	0.15 U	0.15 U	**1.3**	0.15 U	0.15 U	0.38 J [0.28 J]	14/30	14	30
cis-1,3-Dichloropropene	10061-01-5	0.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U [0.16 U]	0/30	0	30
Cyclohexane	110-82-7	--	NA	NA	NA	NA	NA	NA	0/22	0	22
Cymene (p-Isopropyltoluene)	99-87-6	5	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U [0.097 U]	0/8	0	8
Dibromomethane	74-95-3	5	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U [0.35 U]	0/8	0	8
Dichloromethane	75-09-2	5	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U [0.23 U]	1/30	1	30
Diethyl ether	60-29-7	--	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U [0.18 U]	0/8	0	8
Di-isopropyl ether	108-20-3	--	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U [0.13 U]	0/8	0	8
Ethyl tert-butyl ether	637-92-3	--	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U [0.15 U]	0/8	0	8
Ethylbenzene	100-41-4	5	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U [0.21 U]	0/30	0	30
Hexachloro-1,3-butadiene	87-68-3	0.5	0.46 U	0.46 UJ	0.46 U	0.46 U	0.46 U	0.46 U [0.46 U]	0/8	0	8
Isopropylbenzene	98-82-8	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	0/30	0	30
m&p-Xylenes	ARC-mpXyl	5	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U [0.46 U]	0/8	0	8
Methyl Acetate	79-20-9	--	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U [0.45 U]	0/30	0	30
Methyl N-Butyl Ketone (2-Hexanone)	591-78-6	50	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U [1.1 U]	0/30	0	30
Methylcyclohexane	108-87-2	--	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U [0.24 U]	0/30	0	30
Methyl-tert-butylether	1634-04-4	10	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	0/30	0	30
Naphthalene	91-20-3	10	0.24 U	0.24 UJ	0.24 U	0.24 U	0.24 U	0.24 U [0.24 U]	0/8	0	8
n-Butylbenzene	104-51-8	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U [0.15 U]	0/8	0	8
n-Propylbenzene	103-65-1	5	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U [0.086 U]	0/8	0	8
o-Xylene	95-47-6	5	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U [0.23 U]	0/8	0	8
sec-Butylbenzene	135-98-8	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	0/8	0	8
Styrene (Monomer)	100-42-5	5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U [0.11 U]	0/30	0	30
tert-Amyl methyl ether	994-05-8	--	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U [0.14 U]	0/8	0	8
tert-Butyl alcohol	75-65-0	--	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U [4.7 U]	0/8	0	8
tert-Butylbenzene	98-06-6	5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U [0.13 U]	0/8	0	8
Tetrachloroethene	127-18-4	5	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U [0.19 U]	10/30	10	30
Tetrahydrofuran	109-99-9	50	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U [0.49 U]	0/8	0	8
Toluene	108-88-3	5	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U [0.22 U]	2/30	2	30
Total Xylenes	1330-20-7	5	NA	NA	NA	NA	NA	NA	0/22	0	22
trans-1,2-Dichloroethene	156-60-5	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	1/30	1	30
trans-1,3-Dichloropropene	10061-02-6	0.4	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U [0.17 U]	0/30	0	30
trans-1,4-Dichloro-2-butene	110-57-6	5	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U [1.6 U]	0/8	0	8
Trichloroethene	79-01-6	5	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U [0.19 U]	10/30	10	30
Vinyl chloride	75-01-4	2	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**1.0 J [1.0 J]**	12/30	12	30

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:	NYSDEC TOGS 1.1.1 (GA Groundwater)	Detection Frequency (%)	Minimum Detect	Maximum Detect	Max Detect Location	Minimum Non-Detect	Maximum Non-Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
VOCs											
1,1,1,2-Tetrachloroethane	630-20-6	5	0			0.18	1.8	0.09	0.191	0.12	0.286
1,1,1-Trichloroethane	71-55-6	5	13.3	0.75	4450	HRP-MW5	0.17	1.7	0.5	152	0.666	812
1,1,2,2-Tetrachloroethane	79-34-5	5	0			0.13	1.3	0.5	0.404	0.313	0.192
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	5	26.7	2.1	141000	MW-5D	0.23	2.3	0.5	4770	1.8	25700
1,1,2-Trichloroethane	79-00-5	1	3.33	2.9	2.9	HRP-MW5	0.18	1.8	0.5	0.498	0.362	0.495
1,1-Dichloroethane	75-34-3	5	60	1.3	5620	MW-5D	0.14	1	4.7	424	7.97	1230
1,1-Dichloroethene	75-35-4	5	40	1.2	265	MW-7S	0.14	1	0.5	20.6	1.18	56.6
1,1-Dichloropropene	563-58-6	5	0				0.15	1.5	0.075	0.159	0.1	0.239
1,2,3-Trichlorobenzene	87-61-6	5	0				0.3	3	0.5	0.452	0.392	0.248
1,2,3-Trichloropropane	96-18-4	0.04	0				0.28	2.8	0.14	0.298	0.187	0.445
1,2,4-Trichlorobenzene	120-82-1	5	0				0.25	2.5	0.5	0.438	0.373	0.222
1,2,4-Trimethylbenzene	95-63-6	5	0				0.2	2	0.1	0.213	0.133	0.318
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0				0.8	8	0.5	0.593	0.509	0.645
1,2-Dibromoethane	106-93-4	0.0006	0				0.17	1.7	0.5	0.415	0.337	0.196
1,2-Dichlorobenzene	95-50-1	3	0				0.12	1.2	0.5	0.401	0.307	0.192
1,2-Dichloroethane	107-06-2	0.6	10	2.1	4.3	MW-7S	0.31	3.1	0.5	0.738	0.476	0.962
1,2-Dichloropropane	78-87-5	1	0				0.18	1.8	0.5	0.418	0.342	0.198
1,3,5-Trichlorobenzene	108-70-3	--	0				0.21	2.1	0.105	0.223	0.14	0.334
1,3,5-Trimethylbenzene	108-67-8	5	0				0.11	1.1	0.055	0.117	0.0733	0.175
1,3-Dichlorobenzene	541-73-1	3	0				0.12	1.2	0.5	0.401	0.307	0.192
1,3-Dichloropropane	142-28-9	5	0				0.13	1.3	0.065	0.138	0.0867	0.207
1,4-Dichlorobenzene	106-46-7	3	0				0.13	1.3	0.5	0.404	0.313	0.192
1,4-Dioxane	123-91-1	0.35	6.67	125	1200	MW-16D	21	100	50	81.6	39.8	212
2,2-Dichloropropane	594-20-7	5	0				0.33	3.3	0.165	0.351	0.22	0.525
2-Butanone (MEK)	78-93-3	50	3.33	8.1	8.1	HRP-MW5	1.6	16	2.5	2.47	2.07	1.68
2-Chlorotoluene	95-49-8	5	0				0.11	1.1	0.055	0.117	0.0733	0.175
4-Chlorotoluene	106-43-4	5	0				0.12	1.2	0.06	0.128	0.08	0.191
4-Methyl-2-Pentanone	108-10-1	--	0				1.3	13	2.5	2.2	1.88	1.13
Acetone	67-64-1	50	23.3	6	130	MW-17S	2	5	2.5	17.1	4.73	34.4
Acrylonitrile	107-13-1	5	0				0.55	5.5	0.275	0.584	0.367	0.875
Benzene	71-43-2	1	0				0.2	2	0.5	0.423	0.351	0.203
Bromobenzene	108-86-1	5	0				0.15	1.5	0.075	0.159	0.1	0.239
Bromochloromethane	74-97-5	5	0				0.31	3.1	0.5	0.455	0.395	0.254
Bromodichloromethane	75-27-4	50	0				0.18	1.8	0.5	0.418	0.342	0.198
Bromoform	75-25-2	50	0				0.38	3.8	0.5	0.474	0.417	0.3
Bromomethane	74-83-9	5	0				1	15	0.5	0.792	0.602	1.27
Carbon Disulfide	75-15-0	60	0				1	14	0.5	0.763	0.591	1.18
Carbon Tetrachloride	56-23-5	5	0				0.16	1.6	0.5	0.412	0.331	0.194
CFC-11	75-69-4	5	0				0.18	1.8	0.5	0.418	0.342	0.198
CFC-12	75-71-8	5	43.3	1.1	5310	MW-5D	0.19	1.9	0.5	206	1.98	966

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
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Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1.1.1 (GA Groundwater)	Detection Frequency (%)	Minimum Detect	Maximum Detect	Max Detect Location	Minimum Non-Detect	Maximum Non-Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
VOCs												
Chlorobenzene	108-90-7	5	3.33	0.36	0.36	MW-17S	0.11	1.1	0.5	0.408	0.319	0.182
Chlorodibromomethane	124-48-1	50	0				0.22	2.2	0.5	0.429	0.361	0.21
Chloroethane	75-00-3	5	16.7	0.39	34.7	MW-12S	0.32	1	0.5	2.42	0.613	6.76
Chloroform	67-66-3	7	0				0.17	1.7	0.5	0.415	0.337	0.196
Chloromethane	74-87-3	5	0				0.52	5.2	0.5	0.514	0.453	0.407
cis-1,2-Dichloroethene	156-59-2	5	46.7	0.28	114	MW-7S	0.15	1.5	0.5	14.8	1.49	31.7
cis-1,3-Dichloropropene	10061-01-5	0.4	0				0.16	1.6	0.5	0.412	0.331	0.194
Cyclohexane	110-82-7	--	0				1	1	0.5	0.5	0.5	0
Cymene (p-Isopropyltoluene)	99-87-6	5	0				0.097	0.97	0.0485	0.103	0.0647	0.154
Dibromomethane	74-95-3	5	0				0.35	3.5	0.175	0.372	0.233	0.557
Dichloromethane	75-09-2	5	3.33	2.1	2.1	HRP-MW5	0.23	2.3	0.5	0.485	0.383	0.372
Diethyl ether	60-29-7	--	0				0.18	1.8	0.09	0.191	0.12	0.286
Di-isopropyl ether	108-20-3	--	0				0.13	1.3	0.065	0.138	0.0867	0.207
Ethyl tert-butyl ether	637-92-3	--	0				0.15	1.5	0.075	0.159	0.1	0.239
Ethylbenzene	100-41-4	5	0				0.21	2.1	0.5	0.426	0.356	0.206
Hexachloro-1,3-butadiene	87-68-3	0.5	0				0.46	4.6	0.23	0.489	0.307	0.732
Isopropylbenzene	98-82-8	5	0				0.11	1.1	0.5	0.398	0.3	0.193
m&p-Xylenes	ARC-mpXyl	5	0				0.46	4.6	0.23	0.489	0.307	0.732
Methyl Acetate	79-20-9	--	0				0.45	4.5	0.5	0.494	0.436	0.352
Methyl N-Butyl Ketone (2-Hexanone)	591-78-6	50	0				1.1	11	2.5	2.15	1.8	1.05
Methylcyclohexane	108-87-2	--	0				0.24	2.4	0.5	0.435	0.369	0.218
Methyl-tert-butylether	1634-04-4	10	0				0.17	1.7	0.5	0.415	0.337	0.196
Naphthalene	91-20-3	10	0				0.24	2.4	0.12	0.255	0.16	0.382
n-Butylbenzene	104-51-8	5	0				0.15	1.5	0.075	0.159	0.1	0.239
n-Propylbenzene	103-65-1	5	0				0.086	0.86	0.043	0.0914	0.0573	0.137
o-Xylene	95-47-6	5	0				0.23	2.3	0.115	0.244	0.153	0.366
sec-Butylbenzene	135-98-8	5	0				0.11	1.1	0.055	0.117	0.0733	0.175
Styrene (Monomer)	100-42-5	5	0				0.11	1.1	0.5	0.398	0.3	0.193
tert-Amyl methyl ether	994-05-8	--	0				0.14	1.4	0.07	0.149	0.0933	0.223
tert-Butyl alcohol	75-65-0	--	0				4.7	47	2.35	4.99	3.13	7.48
tert-Butylbenzene	98-06-6	5	0				0.13	1.3	0.065	0.138	0.0867	0.207
Tetrachloroethene	127-18-4	5	33.3	8.5	16400	MW-5D	0.19	1.9	0.5	623	2.46	2990
Tetrahydrofuran	109-99-9	50	0				0.49	4.9	0.245	0.521	0.327	0.78
Toluene	108-88-3	5	6.67	17.7	30.1	MW-5D	0.22	2.2	0.5	1.99	0.465	6.18
Total Xylenes	1330-20-7	5	0				3	3	1.5	1.5	1.5	0
trans-1,2-Dichloroethene	156-60-5	5	3.33	1.3	1.3	MW-8S	0.17	1.7	0.5	0.442	0.347	0.254
trans-1,3-Dichloropropene	10061-02-6	0.4	0				0.17	1.7	0.5	0.415	0.337	0.196
trans-1,4-Dichloro-2-butene	110-57-6	5	0				1.6	16	0.8	1.7	1.07	2.55
Trichloroethene	79-01-6	5	33.3	2	2190	MW-5D	0.19	1.9	0.5	81.4	1.4	399
Vinyl chloride	75-01-4	2	40	1	20.8	MW-12S	0.21	1	0.5	2.16	0.734	4.41

Table 5A
Summary of Monitoring Well Sampling Results - Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
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Notes:
U = Compound was not detected. The value shown is the laboratory reporting limit.
UJ = Compound was not detected, however the associated numerical value is approximate. The value shown is the laboratory reporting limit.
J = The reported result was an estimated value.
NA = Not Analyzed
1. Bold values indicate a detection.
2. Shaded values indicate a detected concentration greater than the associated standard or guidance value.

Table 5B
Summary of Monitoring Well Sampling Results - Semi-Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

	Sample ID:	NYSDEC TOGS 1 1 1 (GA Groundwater)	DUP-072822	HRP-MW1	HRP-MW2	HRP-MW3	HRP-MW4	HRP-MW5	MW-1	MW-10D	MW-10S
	Sample Date:		7/28/2022	4/28/2022	4/28/2022	4/28/2022	4/28/2022	4/29/2022	4/27/2022	4/27/2022	4/27/2022
	Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	Units:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SVOCs											
1,4-Dioxane	123-91-1	0.35	**3.1**	0.031 U	**0.33**	0.031 U	**0.27**	**0.97**	0.031 U	**92**	**11**

Table 5B
Summary of Monitoring Well Sampling Results - Semi-Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	MW-11S 4/29/2022 Groundwater ug/l	MW-12S 4/27/2022 Groundwater ug/l	MW-13S 4/27/2022 Groundwater ug/l	MW-14D 4/27/2022 Groundwater ug/l	MW-15S 4/29/2022 Groundwater ug/l	MW-16D 7/29/2022 Groundwater ug/l	MW-16S 7/29/2022 Groundwater ug/l	MW-17S 7/28/2022 Groundwater ug/l	MW-18S 7/29/2022 Groundwater ug/l
SVOCs											
1,4-Dioxane	123-91-1	0.35	**23**	**110 J**	**48**	0.031 U	**29**	**870 J**	0.031 U	0.031 U	0.031 U

Table 5B
Summary of Monitoring Well Sampling Results - Semi-Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	MW-19D 7/28/2022 Groundwater ug/l	MW-19S 7/28/2022 Groundwater ug/l	MW-1D 4/27/2022 Groundwater ug/l	MW-20D 7/28/2022 Groundwater ug/l	MW-20S 7/28/2022 Groundwater ug/l	MW-5D 4/29/2022 Groundwater ug/l	MW-6D 4/28/2022 Groundwater ug/l	MW-6S 4/28/2022 Groundwater ug/l	MW-7D 4/29/2022 Groundwater ug/l
SVOCs											
1,4-Dioxane	123-91-1	0.35	**20**	**2.3**	**0.24**	**37**	**20**	**1.4**	**1.6**	**0.41**	**13**

Table 5B
Summary of Monitoring Well Sampling Results - Semi-Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID: Sample Date: Sample Matrix: Units:		NYSDEC TOGS 1 1 1 (GA Groundwater)	MW-7S 4/29/2022 Groundwater ug/l	MW-8D 4/27/2022 Groundwater ug/l	MW-8S 4/27/2022 Groundwater ug/l	MW-9D 4/27/2022 Groundwater ug/l	MW-9S 4/27/2022 Groundwater ug/l
SVOCs							
1,4-Dioxane	123-91-1	0.35	**9.8**	**1.1**	**0.54**	**4.9**	**0.65**

Table 5B
Summary of Monitoring Well Sampling Results - Semi-Volatile Organic Compounds
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

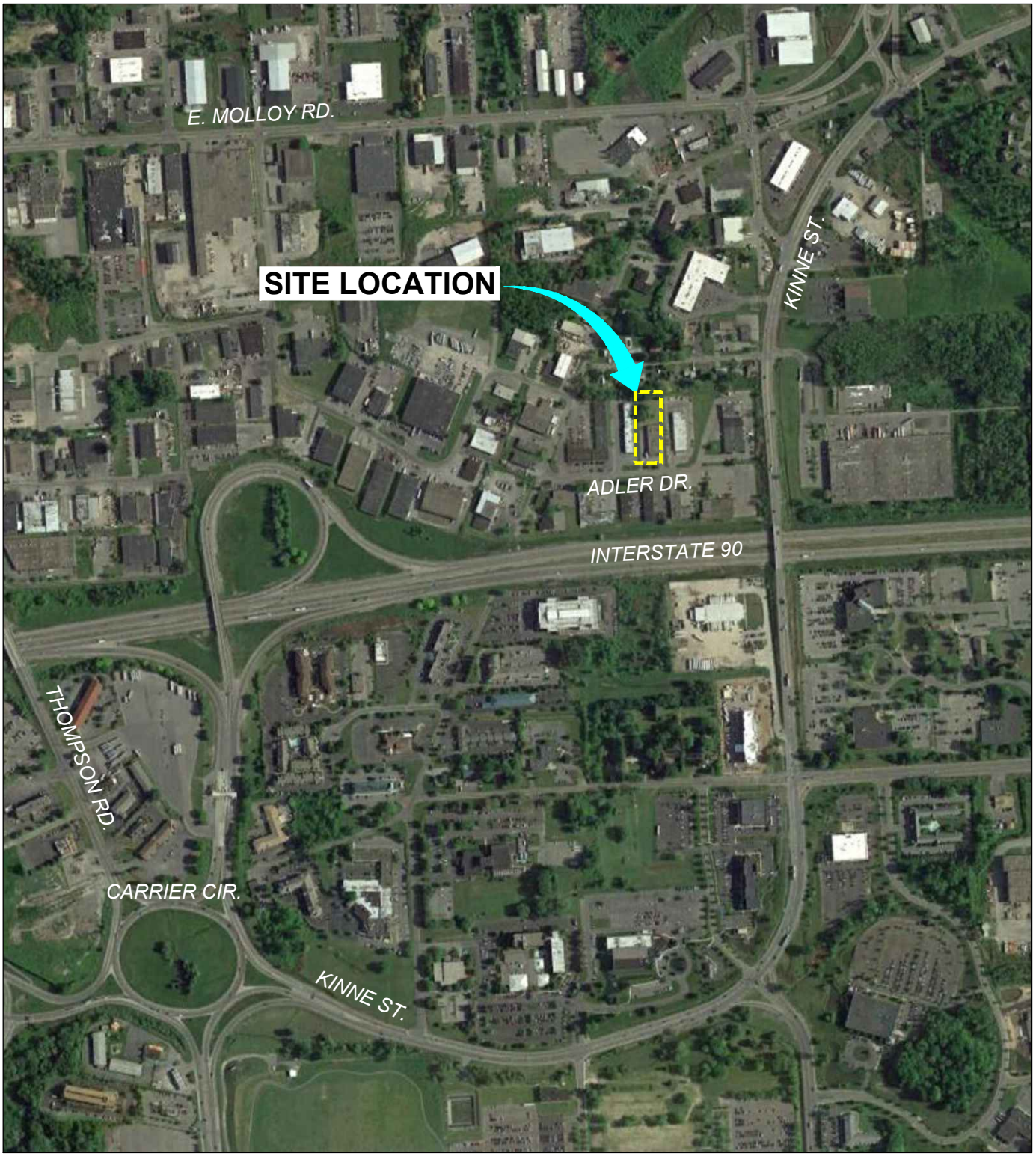
Notes:
U = Compound was not detected. The value shown is the laboratory reporting limit.
UJ = Compound was not detected, however the associated numerical value is approximate. The value shown is the laboratory reporting limit.
J = The reported result was an estimated value.
NA = Not Analyzed
1. Bold values indicate a detection.
2. Shaded values indicate a detected concentration greater than the associated standard or guidance value.

Table 5C
Summary of Monitoring Well Sampling Results - Biogeochemical Indicator Parameters
Supplemental Site Investigation Report
Northern Circuits
NYSDEC Site No. 734124

Sample ID:	DUP-072822	MW-11S	MW-12S	MW-16D	MW-16S	MW-19S	MW-20D	MW-20S	MW-6D	MW-6S
Sample Date:	7/28/2022	7/28/2022	7/28/2022	7/29/2022	7/29/2022	7/28/2022	7/28/2022	7/28/2022	7/29/2022	7/29/2022
Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
GenChem										
Alkalinity (as CaCO3)	**400**	**310**	**430**	**420**	**470**	**270**	**300**	**410**	**270**	**240**
Nitrate-N	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	**0.52**	0.042 U
Sulfate	**43**	**17**	**33**	**450**	**13**	**580 D**	**280 D**	**43**	**58**	**24**
Total Organic Carbon	**8.5**	**2.2**	**2.8**	**4.4**	**2.5**	**2.1**	**2.0**	**8.7**	**1.7**	**2.4**
Metals										
Calcium	**110**	**90**	**120**	**250**	**130**	**330**	**630 D**	**120**	**89**	**63**

Notes:
U = Compound was not detected. The value shown is the laboratory reporting limit.
UJ = Compound was not detected, however the associated numerical value is approximate. The value shown is the laboratory reporting limit.
J = The reported result was an estimated value.
NA = Not Analyzed
1. Bold values indicate a detection.

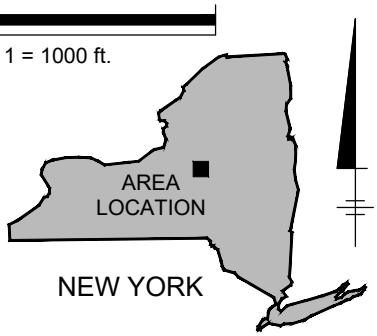
Figures



REFERENCE: BASE MAP GOOGLE EARTH IMAGERY 2016.

0 1000' 2000'

Approximate Scale: 1 = 1000 ft.



NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ALDER DRIVE, EAST SYRACUSE, NEW YORK

SITE LOCATION MAP

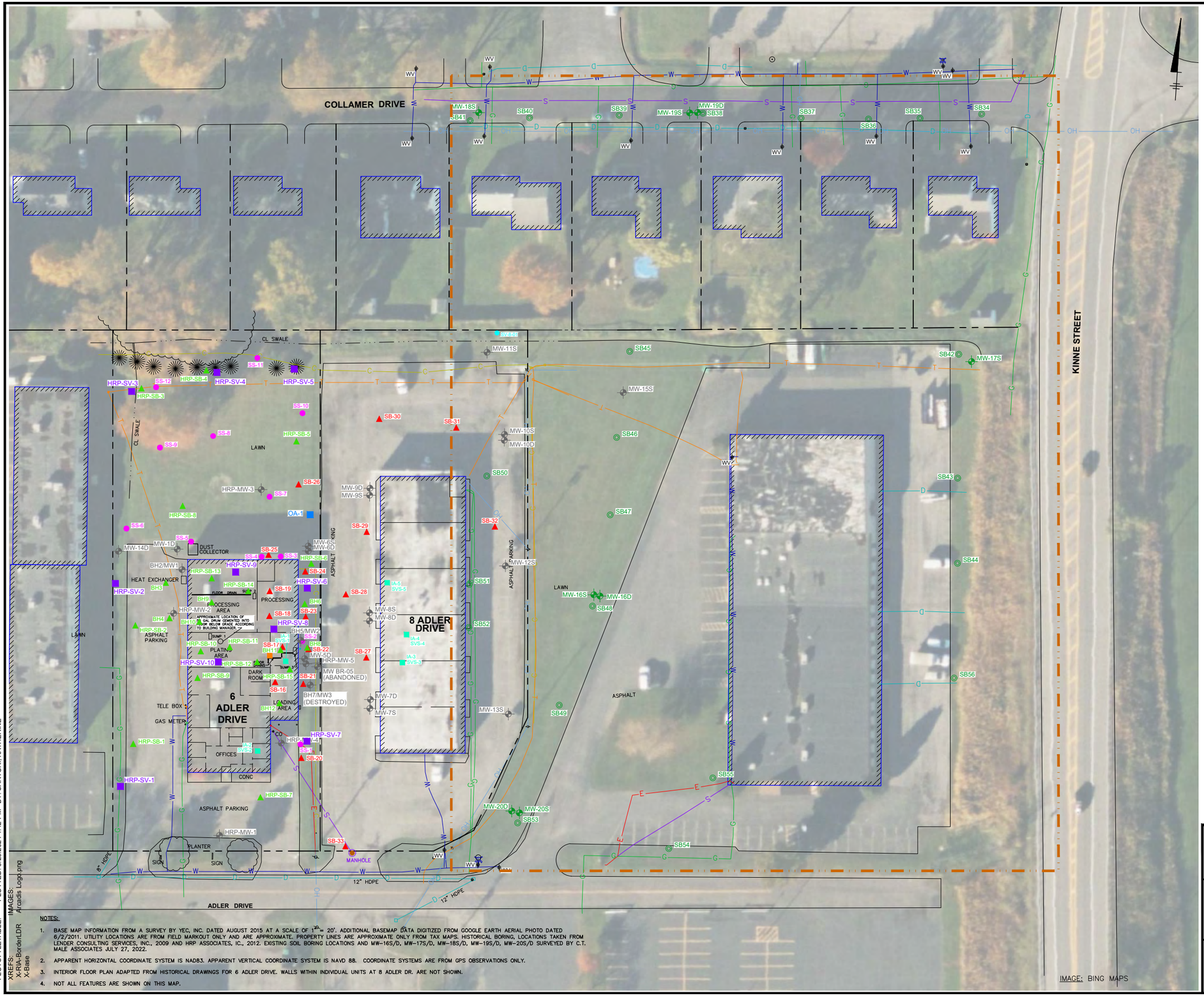
ARCADIS

FIGURE
1

XREFS:
X-RIA-FAP

IMAGES:
AERIAL PHOTO BASE.jpg

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F01-SITE LOCATION MAP.dwg LAYOUT: 1 SAVED: 3/27/2024 7:32 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: --- PLOTTED: 3/27/2024 7:41 AM BY: SARTORI, KATHERINE



LEGEND:

- EXISTING MONITORING WELL
- MONITORING WELL (2022)
- SOIL BORING (2022)
- NEAR–SURFACE SOIL SAMPLE
- HISTORICAL SOIL SAMPLE
- SOIL VAPOR SAMPLE
- HISTORICAL BORING
- STALLED DIRECT PUSH BORING AND GRAB GROUNDWATER SAMPLE
- PAIRED SUB–SLAB VAPOR AND INDOOR AIR SAMPLE
- OUTDOOR AIR SAMPLE
- HISTORICAL SOIL VAPOR/SUB–SLAB VAPOR SAMPLE
- HISTORICAL INDOOR AIR SAMPLE
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- EXISTING OVERHEAD WIRE
- EXISTING GAS
- EXISTING ELECTRICAL
- EXISTING WATER
- EXISTING VERIZON CABLE
- EXISTING TELEPHONE
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET
- SSI INVESTIGATION AREA

0 35' 70'
GRAPHIC SCALE

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012. EXISTING SOIL BORING LOCATIONS AND MW–16S/D, MW–17S/D, MW–18S/D, MW–19S/D, MW–20S/D SURVEYED BY C.T. MALE ASSOCIATES JULY 27, 2022.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. NOT ALL FEATURES ARE SHOWN ON THIS MAP.

IMAGE: BING MAPS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

SITE MAP WITH HISTORICAL LOCATIONS AND AERIAL

ARCADIS

FIGURE 2A

C:\Users\ksarton\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV2024101-DWG\RIA-F02A-SITE PLAN SAMPLE LOCATIONS.dwg LAYOUT: 2A SAVED: 3/28/2024 7:11 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 1:42 PM BY: SARTORI, KATHERINE
XREFS: X-RIA-Border/LDR X-Base
IMAGES: Arcadis Logo.png

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F02B-SITE PLAN SAMPLE LOCATIONS.dwg LAYOUT: 2B SAVED: 3/27/2024 3:52 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 7:25 AM BY: SARTORI, KATHERINE
XREFS: X-RIA-BorderLDR X-Base
IMAGES: Arcadis Logo.png

COLLAMER DRIVE

KINNE STREET

ADLER DRIVE

6 ADLER DRIVE

8 ADLER DRIVE

MW-18S SB41 SB40 SB39 MW-19S MW-19D SB38 SB37 SB36 SB35 SB34

MW-11S SB45 SB42 MW-17S MW-15S SB46 MW-10S MW-10D SB50 SB43 SB47 SB44 MW-9D MW-9S MW-12S SB51 SB52 MW-16S MW-16D SB48 MW-8S MW-8D SB56 SB49 MW-7D MW-7S MW-13S SB55 MW-20D MW-20S SB53 SB54

MW-14D MW-1D MW-6S MW-6D BH2/MW1 HRP-MW-3 HRP-MW-2 BH5/MW2 MW-5D HRP-MW-5 MW BR-05 (ABANDONED) BH7/MW3 (DESTROYED) HRP-MW-4 HRP-MW-1

CL SWALE LAWN ASPHALT PARKING ASPHALT

DUST COLLECTOR HEAT EXCHANGER PROCESSING PROCESSING AREA PLATING AREA DARK ROOM LOADING AREA OFFICES CONC TELE BOX GAS METER CO

FLOOR DRAIN SUMP 2 SUMP 1 APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR. REMOVED ACCORDING TO BUILDING MANAGER.

PLANTER SIGN MANHOLE 8" HDPE 12" HDPE

LEGEND:

- EXISTING MONITORING WELL
- MONITORING WELL (2022)
- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH EXISTING OVERHEAD WIRE
- G EXISTING GAS
- E EXISTING ELECTRICAL
- W EXISTING WATER
- C EXISTING VERIZON CABLE
- T EXISTING TELEPHONE
- D EXISTING STORM DRAIN
- S EXISTING SANITARY SEWER
- ? EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET
- SSI INVESTIGATION AREA

0 35' 70'
GRAPHIC SCALE

NOTES:

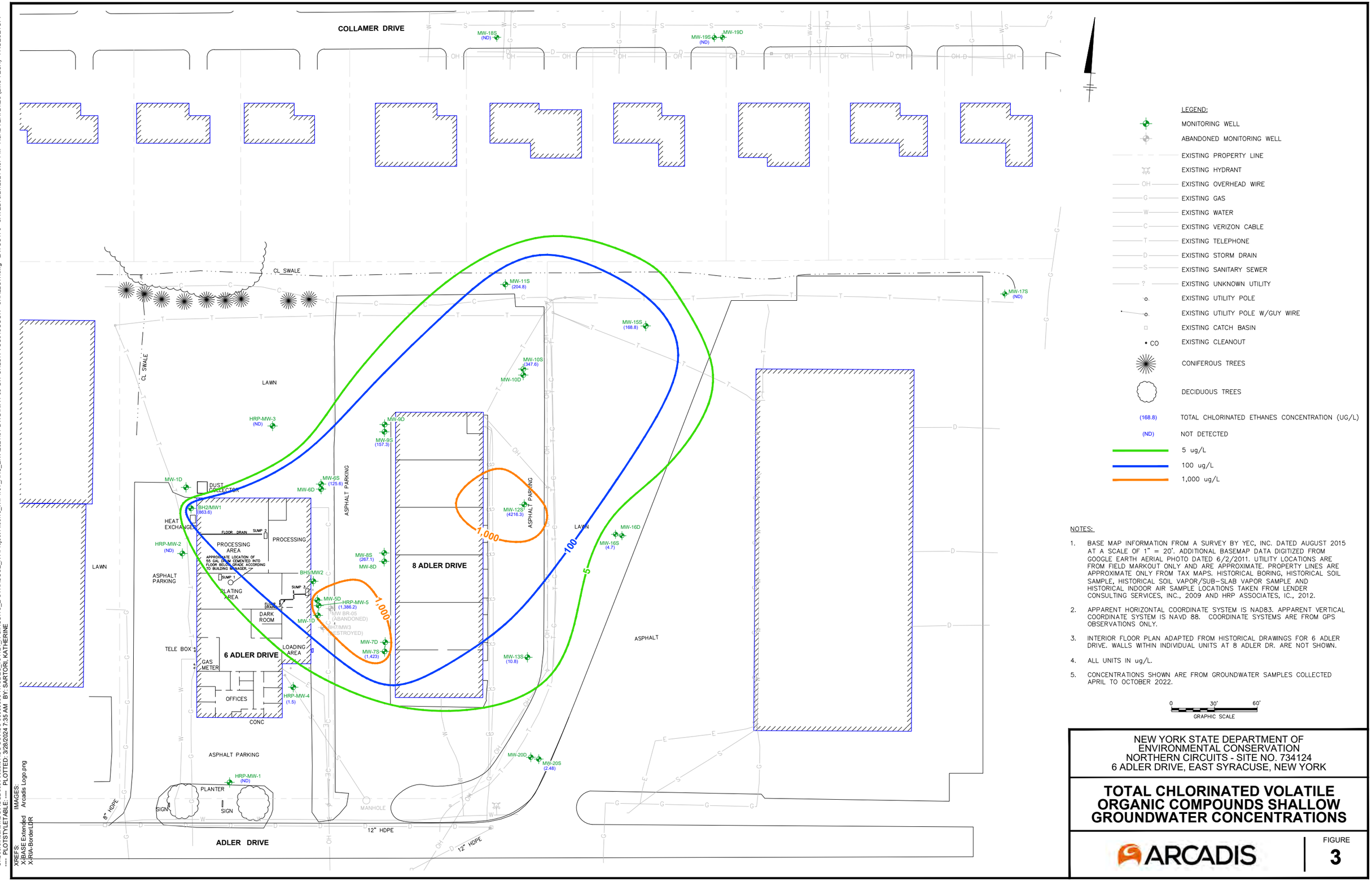
1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012. EXISTING SOIL BORING LOCATIONS AND MW-16S/D, MW-17S/D, MW-18S/D, MW-19S/D, MW-20S/D SURVEYED BY C.T. MALE ASSOCIATES JULY 27, 2022.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. NOT ALL FEATURES ARE SHOWN ON THIS MAP.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

SITE MAP

ARCADIS

FIGURE 2B



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (168.8) TOTAL CHLORINATED ETHANES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 3

C:\Users\Ksartori\DO\ACCDocs\Arcadis ACC USA\US-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F03-GW-CHLOR-VOCs ISOCON - SHALLOW.dwg LAYOUT: 3 SAVED: 3/27/2024 3:57 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 7:35 AM BY: SARTORI, KATHERINE
XREFS: X-BASE Extended X-RIA-Border1.DR
IMAGES: Arcadis Logo.png

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999998-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F04-GW-CHLOR-VOCs ISOCON - DEEP.dwg LAYOUT: 4 SAVED: 3/28/2024 7:28 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 7:32 AM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border.DR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

MW-18S
MW-19S
MW-19D (1.3)
CL SWALE
MW-11S
MW-17S
MW-15S
CL SWALE
LAWN
MW-10S
MW-10D (70.6)
HRP-MW-3
MW-9D (84)
MW-9S
MW-1D (210.9)
DUST COLLECTOR
MW-8S
MW-6D (274.4)
ASPHALT PARKING
MW-12S
ASPHALT PARKING
BH2/MW1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING
PROCESSING AREA
APPROXIMATE LOCATION OF 55 GALLON DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
SUMP 1
HRP-MW-2
LAWN
ASPHALT PARKING
PLATING AREA
BH5/MW2
1,000
10,000
SUMP 3
(24,235.6)
MW-5D
HRP-MW-5 (1,366.2)
MW-8D (45.5)
8 ADLER DRIVE
FLOOR DRAIN
DARK ROOM
MW-1D
MW-05 (ABANDONED)
BH7/MW3 (DESTROYED)
MW-7D (179.2)
MW-7S
TELE BOX
GAS METER
6 ADLER DRIVE
LOADING AREA
HRP-MW-4
OFFICES
CONC
ASPHALT PARKING
HRP-MW-1
PLANTER
SIGN
SIGN
8" HDPE
ADLER DRIVE
MANHOLE
12" HDPE
12" HDPE
LAWN
MW-16S
MW-16D (613.6)
100
5
MW-13S
ASPHALT
MW-20D (11)
MW-20S

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (70.6) TOTAL CHLORINATED ETHANES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 4

C:\Users\kkarton\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NYProject Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F05-GW-CHLORIN-ETHENES ISOCON - SHALLOW.dwg LAYOUT: 5 SAVED: 3/28/2024 7:30 AM ACADVER: 24.2S (LMS TECH)
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XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

MW-18S (ND)
MW-19S (ND)
MW-19D

CL SWALE
CL SWALE
LAWN
MW-11S (122.4)
MW-17S (ND)
MW-15S (4.8)
MW-10S (21.1)
MW-10D
HRP-MW-3 (ND)
MW-9D
MW-9S (151.4)
MW-1D
DUST COLLECTOR
MW-6S (125.60)
MW-6D
BH2/MW1 (863.60)
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
PROCESSING
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
SUMP 1
HRP-MW-2 (ND)
ASPHALT PARKING
PLATING AREA
BH1/MW2
SUMP 3
MW-5D
HRP-MW-5 (1,042.2)
DOOR DOWN
DARK ROOM
MW-5S (BR-05 ABANDONED)
MW-4D
BH7/MW3 (DESTROYED)
TELE BOX
GAS METER
6 ADLER DRIVE
LOADING AREA
OFFICES
HRP-MW-4 (1.5)
CONC
ASPHALT PARKING
HRP-MW-1 (ND)
PLANTER
SIGN
SIGN
8" HDPE
ADLER DRIVE
MANHOLE
12" HDPE
12" HDPE
ASPHALT PARKING
MW-12S (158)
MW-8S (351.1)
MW-8D
8 ADLER DRIVE
MW-7D
MW-7S (323.9)
MW-13S (3.8)
LAWN
MW-16D
MW-16S (1.2)
ASPHALT
MW-20D
MW-20S (1.38)
1,000
100
5

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (4.8) TOTAL CHLORINATED ETHENES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED ETHENES SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 5

C:\Users\Kantori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F06-GW-CHLORIN-ETHENES ISOCON - DEEP.dwg LAYOUT: 6 SAVED: 3/27/2024 2:54 PM ACADVER: 24.2S (LMS TECH)
PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 7:31 AM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border1.DR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

MW-18S
MW-19S
MW-19D (1.3)
CL SWALE
MW-11S
MW-17S
MW-15S
MW-10S
MW-10D (6.2)
LAWN
HRP-MW-3
MW-9D (5.5)
MW-9S
(210.9) MW-1U
DUST COLLECTOR
MW-6S
MW-6D (189.3)
2H2/MW1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
PROCESSING
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
HRP-MW-2
LAWN
ASPHALT PARKING
SUMP
PLATING AREA
BH5/MW2
1,000
100
5
10,000
MW-5D (18,615.6)
HRP-MW-5 (1,042.2)
FLOOR DRAIN
DARK ROOM
MW-1D
MW BR-05 (ABANDONED)
BH7/MW3 (DESTROYED)
MW-7D (12.2)
MW-7S
TELE BOX
6 ADLER DRIVE
LOADING AREA
GAS METER
OFFICES
HRP-MW-4
CONC
ASPHALT PARKING
HRP-MW-1
PLANTER
SIGN
SIGN
8" HDPE
ADLER DRIVE
MANHOLE
12" HDPE
12" HDPE
ASPHALT PARKING
MW-12S
MW-8S
MW-8D (ND)
8 ADLER DRIVE
LAWN
MW-16S
MW-16D (8.6)
ASPHALT
MW-13S
MW-20D (ND)
MW-20S

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (8.6) TOTAL CHLORINATED ETHENES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED ETHENES DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 6

C:\Users\Ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F07-GW PCE ISOCON - SHALLOW.dwg LAYOUT: 7 SAVED: 3/28/2024 9:09 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 1:46 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

MW-18S (ND)
MW-19S (ND)
MW-19D

CL SWALE
CL SWALE
LAWN
MW-11S (80.5)
MW-17S (ND)
MW-15S (ND)
MW-10S (ND)
MW-10D
HRP-MW-3 (ND)
MW-9D
MW-9S (121)
MW-1D
DUST COLLECTOR
MW-6S (13.7)
MW-6D
(825) BH2/MW1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
PROCESSING
ASPHALT PARKING
HRP-MW-2 (ND)
LAWN
SUMP 1
PLATING AREA
BH5/MW2
1,000
MW-8S (186)
MW-8D
8 ADLER DRIVE
MW-5D
HRP-MW-5 (754)
FLOOR DRAIN
DARK ROOM
MW-1D
(NEW BR-05 (ABANDONED) 8/17/2022 (DESTROYED))
MW-7D
MW-7S (48.7)
TELE BOX
6 ADLER DRIVE
LOADING AREA
GAS METER
OFFICES
HRP-MW-4 (ND)
CONC
ASPHALT PARKING
HRP-MW-1 (ND)
PLANTER
SIGN
SIGN
MANHOLE
8" HDPE
12" HDPE
ADLER DRIVE
12" HDPE
ASPHALT PARKING
MW-12S (ND)
LAWN
MW-16S (ND)
MW-16D
ASPHALT
MW-13S (ND)
MW-20D
MW-20S (ND)
100
5

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- • CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (80.5) PCE CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TETRACHLOROETHENE SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 7

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999998-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F08-GW PCE ISOCON - DEEP.dwg LAYOUT: 8 SAVED: 3/28/2024 9:08 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
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XREFS:
X-BASE Extended
X-RIA-Border.DWR
IMAGES:
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COLLAMER DRIVE

MW-18S
MW-19S
MW-19D (ND)
CL SWALE
MW-11S
MW-17S
MW-15S
LAWN
MW-10S
MW-10D (ND)
HRP-MW-3 (ND)
MW-9D (ND)
MW-9S
MW-1D (184)
DUST COLLECTOR
MW-6S
MW-6D (143)
BH2/MW1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
PROCESSING
HRP-MW-2
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
SUMP 1
ASPHALT PARKING
PLATING AREA
1,000
100
5
BH5/MW2
10,000
SUMP
MW-5D (16,400)
FLOOR DRAIN
BARK ROOM
HRP-MW-5 (764)
BH6/MW4 (ABANDONED)
BH3/MW3 (DESTROYED)
MW-7D (8.5)
MW-7S
TELE BOX
GAS METER
6 ADLER DRIVE
LOADING AREA
OFFICES
CONC
HRP-MW-4
ASPHALT PARKING
HRP-MW-1
PLANTER
SIGN
SIGN
MANHOLE
8" HDPE
12" HDPE
ADLER DRIVE
8 ADLER DRIVE
ASPHALT PARKING
MW-12S
MW-8S
MW-8D (ND)
MW-13S
LAWN
MW-16S
MW-16D (ND)
ASPHALT
MW-20D (ND)
MW-20S
12" HDPE

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- • CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (143) — PCE CONCENTRATION (UG/L)
- (ND) — NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
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4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TETRACHLOROETHENE DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 8

COLLAMER DRIVE

MW-18S (ND)
MW-19S (ND)
MW-19D

CL SWALE
CL SWALE

MW-11S (37)
MW-17S (ND)
MW-15S (164)
MW-10S (326.50)
MW-10D

LAWN
HRP-MW-3 (ND)
MW-9D
MW-9S (5.9)
MW-1D
DUST COLLECTOR
MW-6S (ND)
MW-6D
BH2/MW1 (ND)
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
PROCESSING
HRP-MW-2 (ND)
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
SUMP 1
PLATING AREA
SUMP 3
FLOOR DRAIN
DARK ROOM
LOADING AREA
TELE BOX
GAS METER
6 ADLER DRIVE
OFFICES
CONC
HRP-MW-4 (1.5)
ASPHALT PARKING
BH2/MW2
MW-5D
HRP-MW-5 (344)
NEW BRIDGE (ABANDONED)
MW-4D
BH7/MW3 (DESTROYED)
MW-7D
MW-7S (971.3)
MW-8S (267.1)
MW-8D
8 ADLER DRIVE
MW-12S (4058.30)
MW-13S (7.0)
MW-16D
MW-16S (3.5)
ASPHALT
MW-20D
MW-20S (1.1)
HRP-MW-1 (ND)
PLANTER
SIGN
SIGN
MANHOLE
8" HDPE
12" HDPE
12" HDPE
ADLER DRIVE

1,000
100
5

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (3.5) TOTAL CHLORINATED ETHANES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

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0 30' 60'
GRAPHIC SCALE

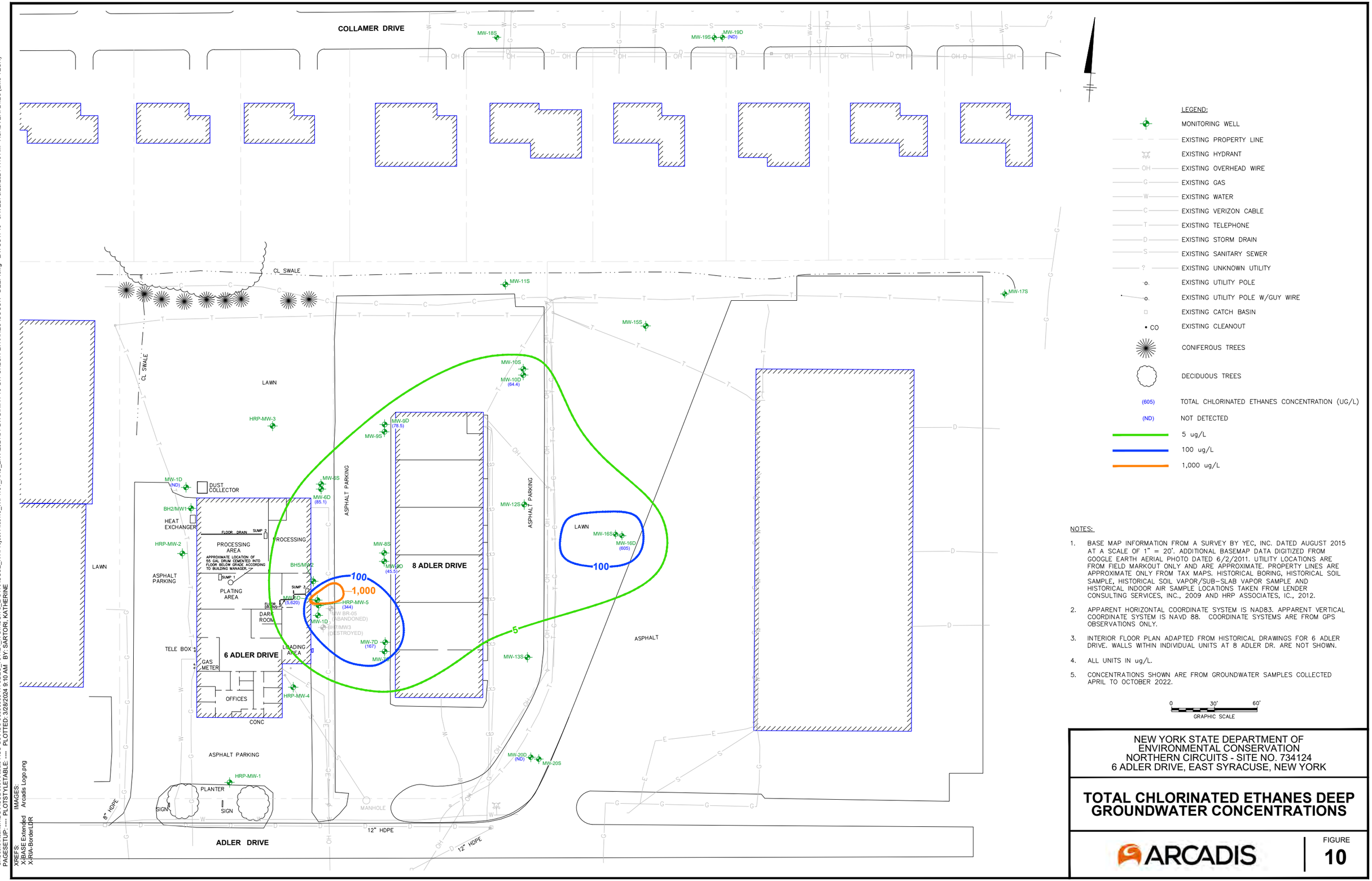
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED ETHANES SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 9

C:\Users\Ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F09-GW-CHLOR-ETHANES ISOCON - SHALLOW.dwg LAYOUT: 9 SAVED: 3/28/2024 7:39 AM ACADVER: 24.2S (LMS TECH)
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XREFS:
X-BASE Extended
X-RIA-Border1.DR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (605) TOTAL CHLORINATED ETHANES CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

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5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

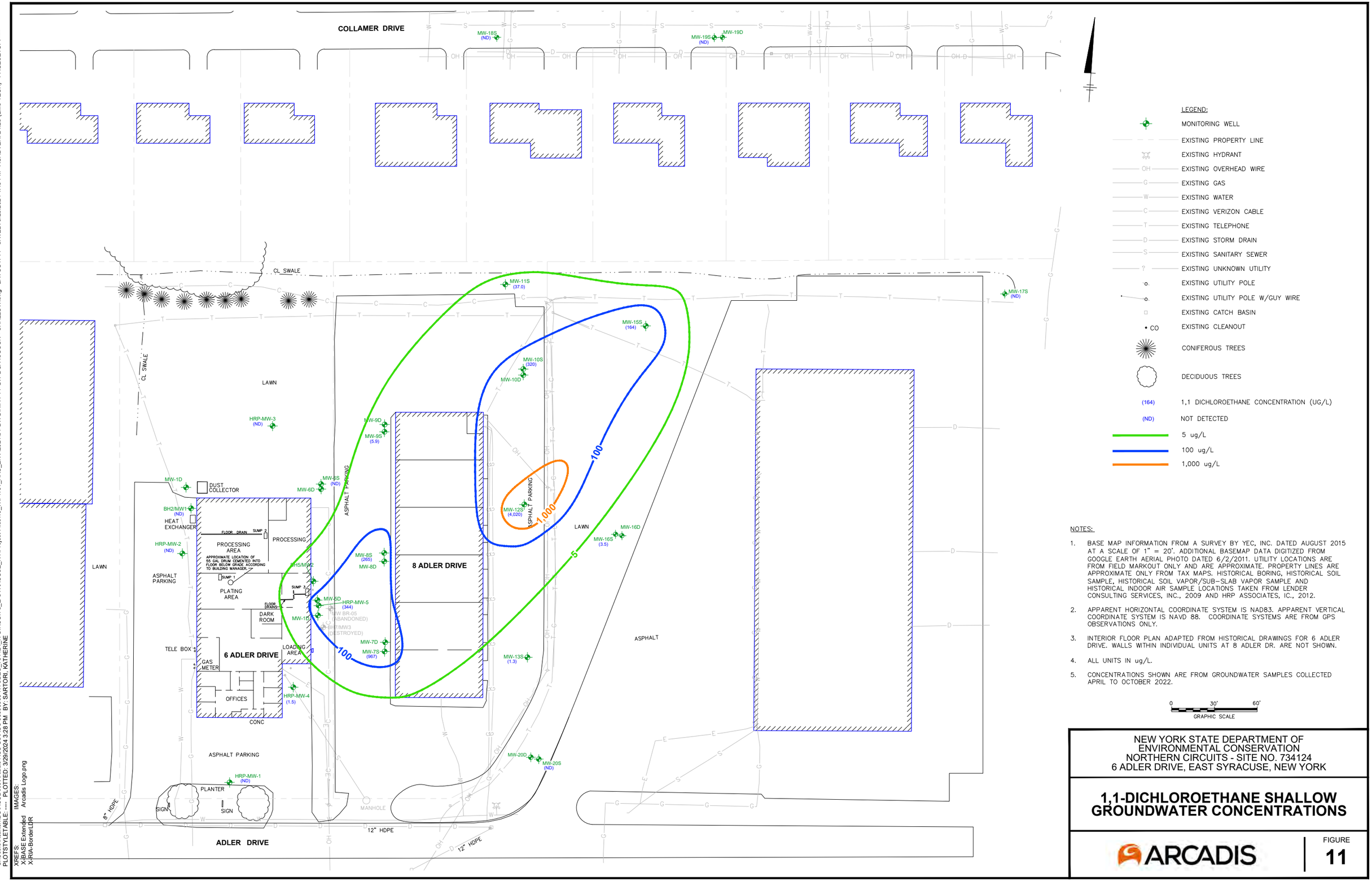
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

TOTAL CHLORINATED ETHANES DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE
10

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XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (164) 1,1 DICHLOROETHANE CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

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4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

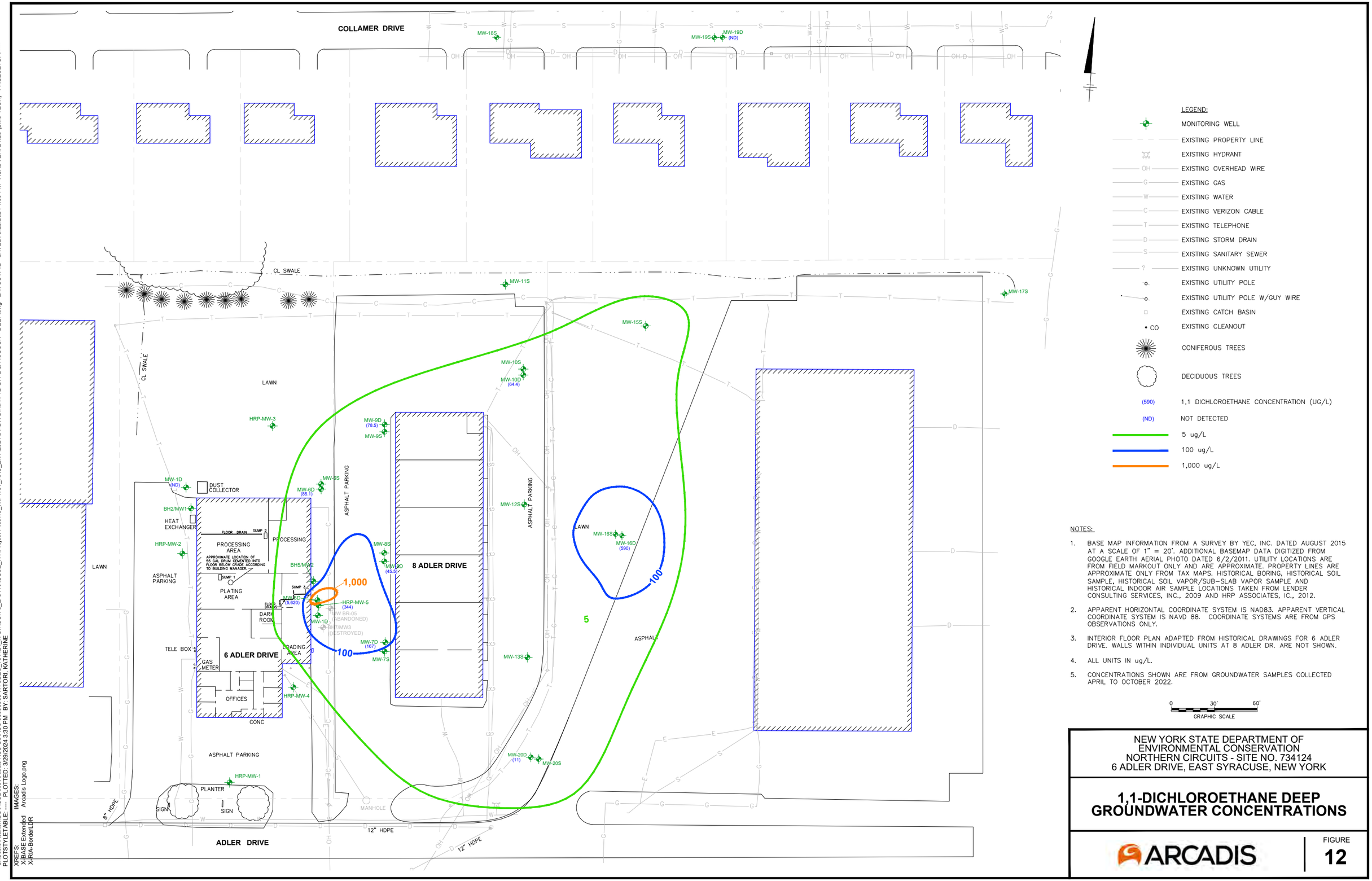
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

1,1-DICHLOROETHANE SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 11

C:\Users\Ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F11-GW-DCA ISOCON - SHALLOW.dwg LAYOUT: 11 SAVED: 3/29/2024 1:48 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
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XREFS:
X-BASE Extended
X-RIA-Border1.DR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- • CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (590) — 1,1 DICHLOROETHANE CONCENTRATION (UG/L)
- (ND) — NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

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0 30' 60'
GRAPHIC SCALE

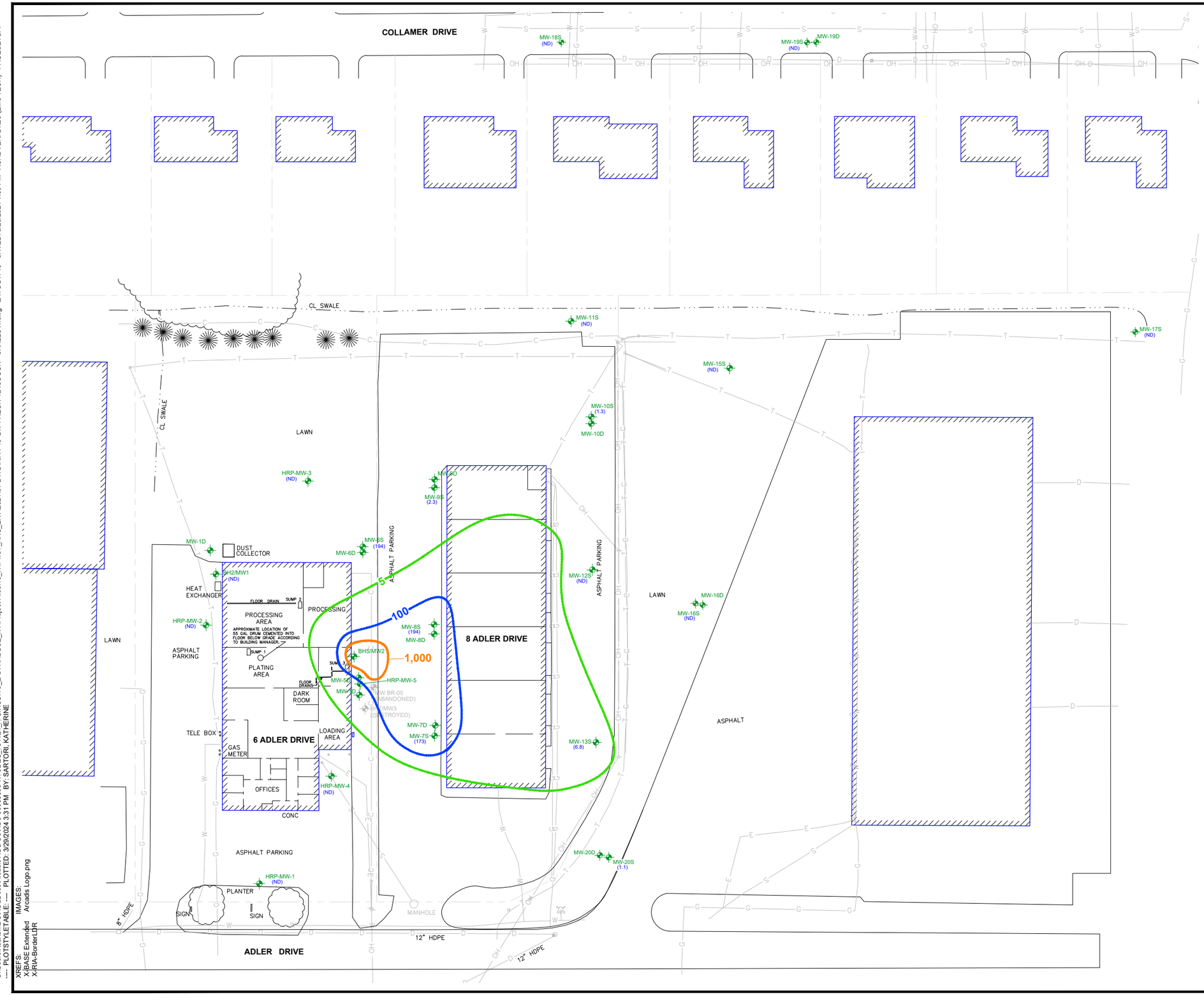
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

1,1-DICHLOROETHANE DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE
12

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PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 3:30 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (1.3) FREON 12 CONCENTRATION (UG/L)
- (ND) NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

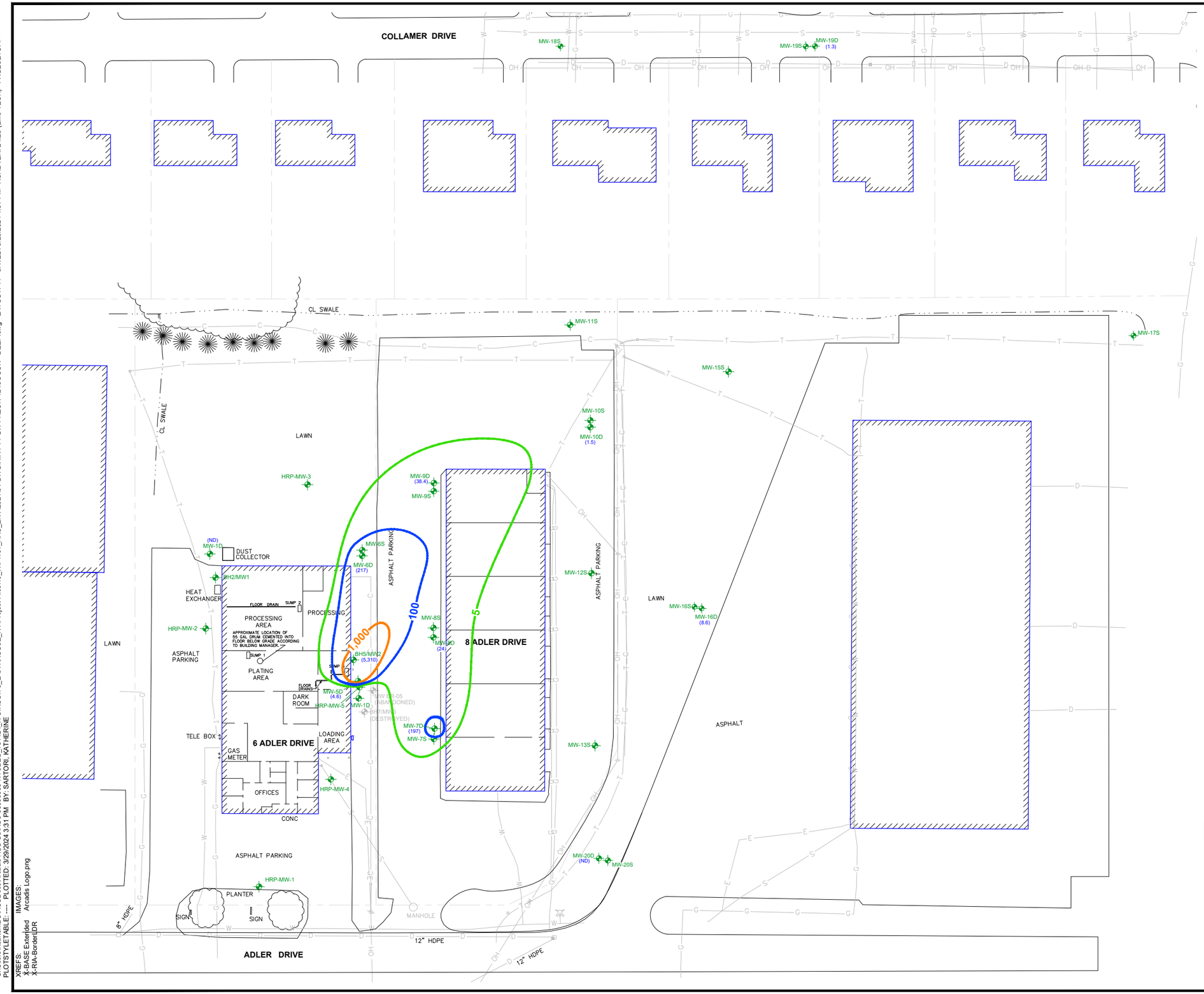
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

CFC-12 SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 13

C:\Users\Ksartori\DC\ACCDocs\Arcadis ACC USA\US-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F13-GW FREON-12 ISOCON - SHALLOW.dwg LAYOUT: 13 SAVED: 3/29/2024 1:50 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 3:31 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border1.DR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- • CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (24) — FREON 12 CONCENTRATION (UG/L)
- (ND) — NOT DETECTED
- 5 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

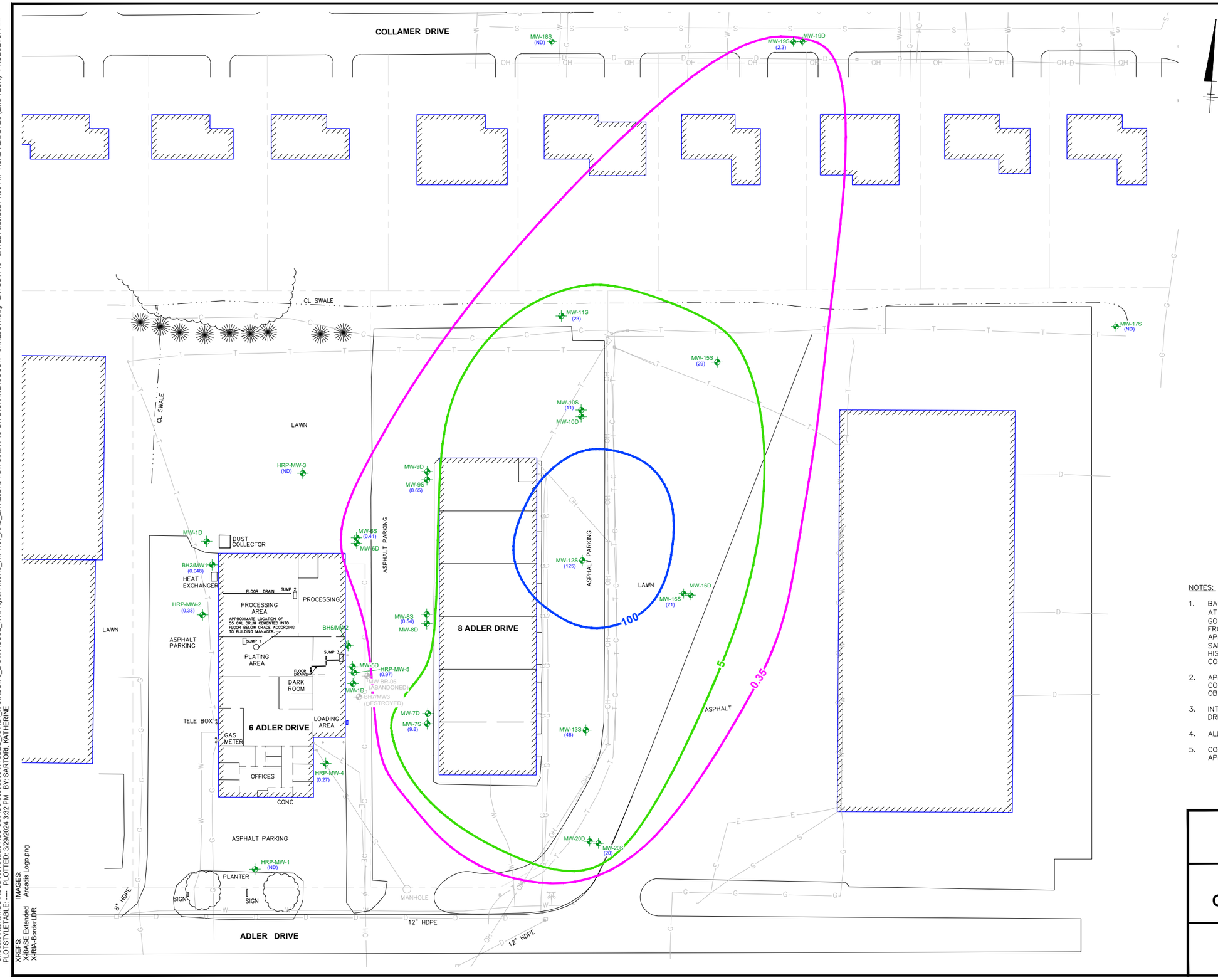
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

CFC-12 DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 14

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F14-GW FREON-12 ISOCON - DEEP.dwg LAYOUT: 14 SAVED: 3/29/2024 1:51 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 3:31 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border1DR
IMAGES:
Arcadis Logo.png



LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (29) — 1,4-DIOXANE CONCENTRATION (UG/L)
- (ND) — NOT DETECTED
- 0.35 ug/L
- 5 ug/L
- 100 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
2. APPARENT HORIZONTAL COORDINATE SYSTEM IS NAD83. APPARENT VERTICAL COORDINATE SYSTEM IS NAVD 88. COORDINATE SYSTEMS ARE FROM GPS OBSERVATIONS ONLY.
3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

1,4-DIOXANE SHALLOW GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 15

C:\Users\Kkarton\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\20240101-DWG\RIA-F15-GW DIOXANE ISOCON - SHALLOW.dwg LAYOUT: 15 SAVED: 3/29/2024 1:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 3:32 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png

C:\Users\Ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F16-GW DIOXANE ISOCON - DEEP.dwg LAYOUT: 16 SAVED: 3/29/2024 1:54 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 3:33 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

MW-18S
MW-19S
MW-19D (20)
CL SWALE
MW-11S
MW-17S
MW-15S
MW-10S
MW-10D (92)
LAWN
HRP-MW-3
MW-9D (4.9)
MW-9S
MW-1D (0.24)
DUST COLLECTOR
MW-6S
MW-6D (1.6)
BH2/MW1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING AREA
PROCESSING
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER.
SUMP 1
PLATING AREA
SUMP 3
FLOOR DRAINS
DARK ROOM
HRP-MW-2
ASPHALT PARKING
LAWN
MW-8S
MW-8D (1.1)
8 ADLER DRIVE
BH5/MW2 (1.4)
MW-5D (0.97)
HRP-MW-5
MW BRG-05 (ABANDONED)
MW-1D
BH7/MW3 (DESTROYED)
MW-7D (13)
MW-7S
TELE BOX
GAS METER
6 ADLER DRIVE
LOADING AREA
OFFICES
CONC
HRP-MW-4
ASPHALT PARKING
HRP-MW-1
PLANTER
SIGN
SIGN
8" HDPE
MANHOLE
12" HDPE
ADLER DRIVE
12" HDPE
ASPHALT PARKING
MW-12S
LAWN
MW-16S
MW-16D (1,200)
1,000
100
5
0.35
ASPHALT
MW-13S
MW-20D (37)
MW-20S

LEGEND:

- MONITORING WELL
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- (408.9) — 1,4-DIOXANE CONCENTRATION (UG/L)
- (ND) — NOT DETECTED
- 0.35 ug/L
- 5 ug/L
- 100 ug/L
- 1,000 ug/L

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS. HISTORICAL BORING, HISTORICAL SOIL SAMPLE, HISTORICAL SOIL VAPOR/SUB-SLAB VAPOR SAMPLE AND HISTORICAL INDOOR AIR SAMPLE LOCATIONS TAKEN FROM LENDER CONSULTING SERVICES, INC., 2009 AND HRP ASSOCIATES, IC., 2012.
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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ALL UNITS IN ug/L.
5. CONCENTRATIONS SHOWN ARE FROM GROUNDWATER SAMPLES COLLECTED APRIL TO OCTOBER 2022.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

1,4-DIOXANE DEEP GROUNDWATER CONCENTRATIONS

ARCADIS

FIGURE 16

COLLAMER DRIVE

8 ADLER DRIVE

6 ADLER DRIVE

ADLER DRIVE

LAWN

ASPHALT PARKING

ASPHALT

CL SWALE

PROCESSING AREA

PLATING AREA

DARK ROOM

OFFICES

LOADING AREA

TELE BOX

GAS METER

HEAT EXCHANGER

DUST COLLECTOR

PLANTER

SIGN

MANHOLE

CONC

MW-18S (409.88)
MW-19S (410.02)
MW-19D
MW-11S (411.28)
MW-15S (412.27)
MW-17S (109.19)
MW-10S (410.2)
MW-10D
MW-9D
MW-9S (411.48)
MW-14D (412.72)
MW-1D
MW-6S (410.8)
MW-6D
MW-12S (410.31)
MW-16S (410.87)
MW-16D
MW-8S (411.1)
MW-8D
MW-5D
MW-7D
MW-7S (411.25)
MW-13S (410.5)
MW-20D
MW-20S (411.29)
BH-2/MW-1 (413.21)
BH-3/MW-2
HRP-MW-1 (411.74)
HRP-MW-2 (413.57)
HRP-MW-3 (412.05)
HRP-MW-4 (411.88)
HRP-MW-5 (411.89)
MW BR-05 (ABANDONED)
BH7/MW3 (DESTROYED)

SB38 SB39 SB40 SB41 SB45 SB46 SB47 SB48 SB49 SB50 SB51 SB52 SB53 SB54 SB55 SB37

411 410 412 413 414 417

8" HDPE 12" HDPE

LEGEND:

- MONITORING WELL
- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- E — EXISTING ELECTRICAL
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET
- (410.02) GROUNDWATER ELEVATION (FT)
- 410 GROUNDWATER ELEVATION CONTOUR (FT) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS.
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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR MAP (AUGUST 5, 2022)

ARCADIS

FIGURE 17

C:\Users\ksarton\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\20240101-DWG\RIA-F17-SHALLOW GWCONT-AUG2022.dwg LAYOUT: 17 SAVED: 3/28/2024 7:49 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 9:17 AM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-BorderLDR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

KINNE STREET

CL SWALE

LAWN

ASPHALT PARKING

8 ADLER DRIVE

6 ADLER DRIVE

ADLER DRIVE

ASPHALT

MW-18S
SB41
SB40
SB39
MW-19S
MW-19D (409.81)
SB38
SB37
MW-11S
SB45
MW-15S
MW-10S
MW-10D (407.9)
SB46
SB50
MW-9D (409.1)
MW-9S
SB47
MW-14D
MW-1D (408.9)
DUST COLLECTOR
MW-6S
MW-6D (409.4)
MW-12S
SB51
MW-16S
MW-16D (409.4)
SB48
BH-2/MW-1
HEAT EXCHANGER
FLOOR DRAIN
SUMP 2
PROCESSING
PROCESSING AREA
APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER
HRP-MW-2
HRP-MW-3
SUMP 1
SUMP 3
PLATING AREA
BH-2/MW-2
MW-8S
MW-8D (411.2)
SB52
MW-5S (407.7)
MW BR-5S
HRP-MW-5
DARK ROOM
BH7/MW3 (DESTROYED)
MW-7D (407.7)
MW-7S
MW-13S
SB49
TELE BOX
GAS METER
LOADING AREA
OFFICES
HRP-MW-4
CONC
HRP-MW-1
PLANTER
SIGN
MANHOLE
12" HDPE
SB55
SB54
SB53
MW-20D (407.7)
MW-20S
AWN
AWN
409
408.6
408.2
407.8
407.4
408.8
409.4
409.6
AMSL

LEGEND:

- MONITORING WELL
- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- E — EXISTING ELECTRICAL
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET
- (408.9) — GROUNDWATER ELEVATION (FT)
- 409 — GROUNDWATER ELEVATION CONTOUR (FT)
- AMSL — ABOVE MEAN SEA LEVEL

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011. UTILITY LOCATIONS ARE FROM FIELD MARKOUT ONLY AND ARE APPROXIMATE. PROPERTY LINES ARE APPROXIMATE ONLY FROM TAX MAPS.
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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

DEEP GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR MAP (AUGUST 5, 2022)

ARCADIS

FIGURE 18

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F18-DEEP GWCONT-AUG2022.dwg LAYOUT: 18 SAVED: 3/28/2024 7:55 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/28/2024 9:19 AM BY: SARTORI, KATHERINE
XREFS:
IMAGES:
X\Arcadis logo.png
X\BASE Extended
X\RIA-Border.dwg

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC USAUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F19-SB VOC RESULTS.dwg LAYOUT: 19 SAVED: 3/28/2024 9:22 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 1:55 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border/LDR
IMAGES:
Arcadis Logo.png

COLLAMER DRIVE

CL SWALE

LAWN

CL SWALE

HRP-MW-3

MW-1D

DUST COLLECTOR

MW-14D

BH-2/MW-1

HEAT EXCHANGER

FLOOR DRAIN SUMP 2

PROCESSING AREA

PROCESSING

HRP-MW-2

APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER

SUMP 1

SUMP 3

PLATING AREA

FLOOR DRAIN

DARK ROOM

LAWN

ASPHALT PARKING

TELE BOX

GAS METER

6 ADLER DRIVE

LOADING AREA

OFFICES

CONC

ASPHALT PARKING

PLANTER

HRP-MW-1

SIGN

SIGN

8" HDPE

ADLER DRIVE

MW-6S

MW-6D

BH-5/MW-2

MW-5D

HRP-MW-5

MW BR-05 (ABANDONED)

BH7/MW3 (DESTROYED)

HRP-MW-4

MW-11S

MW-10S

MW-10D

MW-9D

MW-9S

MW-8S

MW-8D

MW-7D

MW-7S

8 ADLER DRIVE

ASPHALT PARKING

MW-12S

MW-13S

MANHOLE

12" HDPE

12" HDPE

MW-20S

MW-20D

MW-18S

MW-19S

MW-19D

MW-16S

MW-16D

MW-15S

MW-17S

ASPHALT

LAWN

ASPHALT PARKING

SB-41	
Shallow	
NSE	
Deep	
NSE	

SB-40	
Shallow	
NSE	
Deep	
NSE	

SB-39	
Shallow	
NSE	
Deep	
NSE	

SB-38	
Shallow	
NSE	
Deep	
NSE	

SB-37	
Shallow	
NSE	
Deep	
NSE	

SB-36	
Shallow	
NSE	
Deep	
NSE	

SB-35	
Shallow	
NSE	
Deep	
NSE	

SB-34	
Shallow	
NSE	
Deep	
NSE	

SB-45	
Shallow	
NSE	
Deep	
NSE	

SB-46	
Shallow	
NSE	
Deep	
NSE	

SB-50	
Shallow	
NSE	
Intermediate	
1,1-DCA	352
1,1-DCE	27.5

SB-47	
Shallow	
NSE	
Deep	
NSE	

SB-51	
Shallow	
1,1,1-TCA	5.4
Benzene	2.7
Intermediate	
1,1-DCA	834
1,1-DCE	37.3
Vinyl chloride	8.1

SB-48	
Shallow	
NSE	
Intermediate	
1,1-DCA	17.2
1,1-DCE	10.2

SB-52	
Shallow	
1,1,1-TCA	46.7
1,1-DCA	20.7
Intermediate	
1,1,2-TC-1,2,2-TFA	18.7

SB-49	
Shallow	
NSE	
Intermediate	
1,1-DCA	66.8

SB-55	
Shallow	
NSE	
Deep	
NSE	

SB-42	
Shallow	
NSE	
Deep	
NSE	

SB-43	
Shallow	
NSE	
Deep	
NSE	

SB-44	
Shallow	
NSE	
Deep	
NSE	

SB-56	
SB-56S	
NSE	
SB-56I	
NSE	

SB-53	
Shallow	
NSE	
Deep	
NSE	

SB-54	
Shallow	
NSE	
Deep	
NSE	

LEGEND:

- MONITORING WELL
- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
- E — EXISTING ELECTRICAL
- W — EXISTING WATER
- C — EXISTING VERIZON CABLE
- T — EXISTING TELEPHONE
- D — EXISTING STORM DRAIN
- S — EXISTING SANITARY SEWER
- ? — EXISTING UNKNOWN UTILITY
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/GUY WIRE
- EXISTING CATCH BASIN
- CO — EXISTING CLEANOUT
- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET

NOTES:

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3. INTERIOR FLOOR PLAN ADAPTED FROM HISTORICAL DRAWINGS FOR 6 ADLER DRIVE. WALLS WITHIN INDIVIDUAL UNITS AT 8 ADLER DR. ARE NOT SHOWN.
4. ONLY SAMPLE RESULTS FROM CONSTITUENTS WHICH EXCEEDED APPLICABLE STANDARDS AND/OR GUIDELINES ARE DISPLAYED ON THIS FIGURE. RESULTS WHICH EXCEEDED APPLICABLE NYSDEC GA STANDARDS/GUIDANCE VALUES ARE BOLDED. RESULTS IN BRACKETS ARE FROM FIELD DUPLICATES.
5. J, J-, J+ = ESTIMATED
   U = NOT DETECTED. REPORTING LIMIT SHOWN.
   NJ = TENTATIVELY DETECTED AND ESTIMATED IN VALUE.
   NS = NOT SAMPLED.
   NSE= NO STANDARD EXCEEDANCES

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

SOIL BORING GRAB GROUNDWATER VOLATILE ORGANIC COMPOUNDS SAMPLE RESULTS

ARCADIS

FIGURE 19

C:\Users\ksartori\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F20-GW VOC RESULTS.dwg LAYOUT: 20 SAVED: 3/29/2024 2:10 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
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X-BASE Extended Arcadis Logo.png
X-RIA-BorderLDR

COLLAMER DRIVE

ADLER DRIVE

6 ADLER DRIVE

8 ADLER DRIVE

LAWN

ASPHALT PARKING

CL SWALE

PROCESSING AREA

PLATING AREA

DARK ROOM

LOADING AREA

OFFICES

HEAT EXCHANGER

DUST COLLECTOR

TELE BOX

GAS METER

CONC

PLANTER

SIGN

MANHOLE

8" HDPE

12" HDPE

FLOOR DRAIN

SUMP 1

SUMP 2

SUMP 3

APPROXIMATE LOCATION OF 55 GAL DRUM CEMENTED INTO FLOOR BELOW GRADE ACCORDING TO BUILDING MANAGER.

MW-18S	
NSE	

MW-19S	
Acetone	78

MW-19D	
Acetone	110

MW-10S	
1,1-DCA	320
1,1-DCE	17.1
Chloroethane	6.5
VC	2.3

MW-10D	
1,1-DCA	64.4

MW-17S	
Acetone	130

MW-15S	
1,1-DCA	160 [160]

MW-6S	
cis-1,2-DCE	82.1
PCE	13.7 J
TCE	28.8

MW-6D	
CFC-113	213
1,1-DCA	85.1
CFC-12	217 J
cis-1,2-DCE	18.7
PCE	143 J
TCE	23.5

MW-12S	
1,1-DCA	4020
1,1-DCE	127
1,2-DCA	3.6
Chloroethane	34.7
cis-1,2-DCE	10.2
VC	20.8

MW-16S
NSE

MW-16D	
1,1-DCA	590
Acetone	76 J
Chloroethane	15 J
VC	4 J

MW-8S	
CFC-113	191
1,1-DCA	265
1,1-DCE	53.8
1,2-DCA	2.1
CFC-12	194 J
cis-1,2-DCE	67.6
PCE	186 J
TCE	42.3

MW-8D	
1,1-DCA	45.5
CFC-12	24 J

MW-7D	
CFC-113	675
1,1-DCA	167
CFC-12	197
PCE	8.5

MW-7S	
1,1,1-TCA	31.9
CFC-113	110
1,1-DCA	967
1,1-DCE	265
1,2-DCA	4.3
CFC-12	173
cis-1,2-DCE	114
PCE	48.7
TCE	10.2
VC	13.8

MW-13S	
CFC-12	6.8 J
Chloroethane	5.7

MW-20D	
1,1-DCA	11

MW-20S
NSE

HRP-MW-3
NSE

MW-9D	
1,1-DCA	78.5
CFC-12	38.4 J

MW-9S	
1,1-DCA	5.9
cis-1,2-DCE	6.3
PCE	121 J
TCE	24.1

MW-14D
NSE

MW-1D	
PCE	184 J
TCE	26.9

MW-1	
cis-1,2-DCE	5.6
PCE	825 J
TCE	33

HRP-MW-2
NSE

MW-5D	
1,1,1-TCA	77.8
CFC-113	141000
1,1-DCA	5620
CFC-12	5310
cis-1,2-DCE	21.6
PCE	16400
Toluene	30.1
TCE	2190
VC	4

HRP-MW5	
1,1,1-TCA	4450
CFC-113	906
1,1,2-TCA	2.9
1,1-DCA	344
1,1-DCE	126
cis-1,2-DCE	102
PCE	754
Toluene	17.7
TCE	54.8
VC	5.4

HRP-MW-4
NSE

HRP-MW-4
NSE

LEGEND:

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- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
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- CONIFEROUS TREES
- DECIDUOUS TREES
- STORM INLET

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   NSE= NO STANDARD EXCEEDANCES.
6. SAMPLE RESULTS ARE IN UG/L.

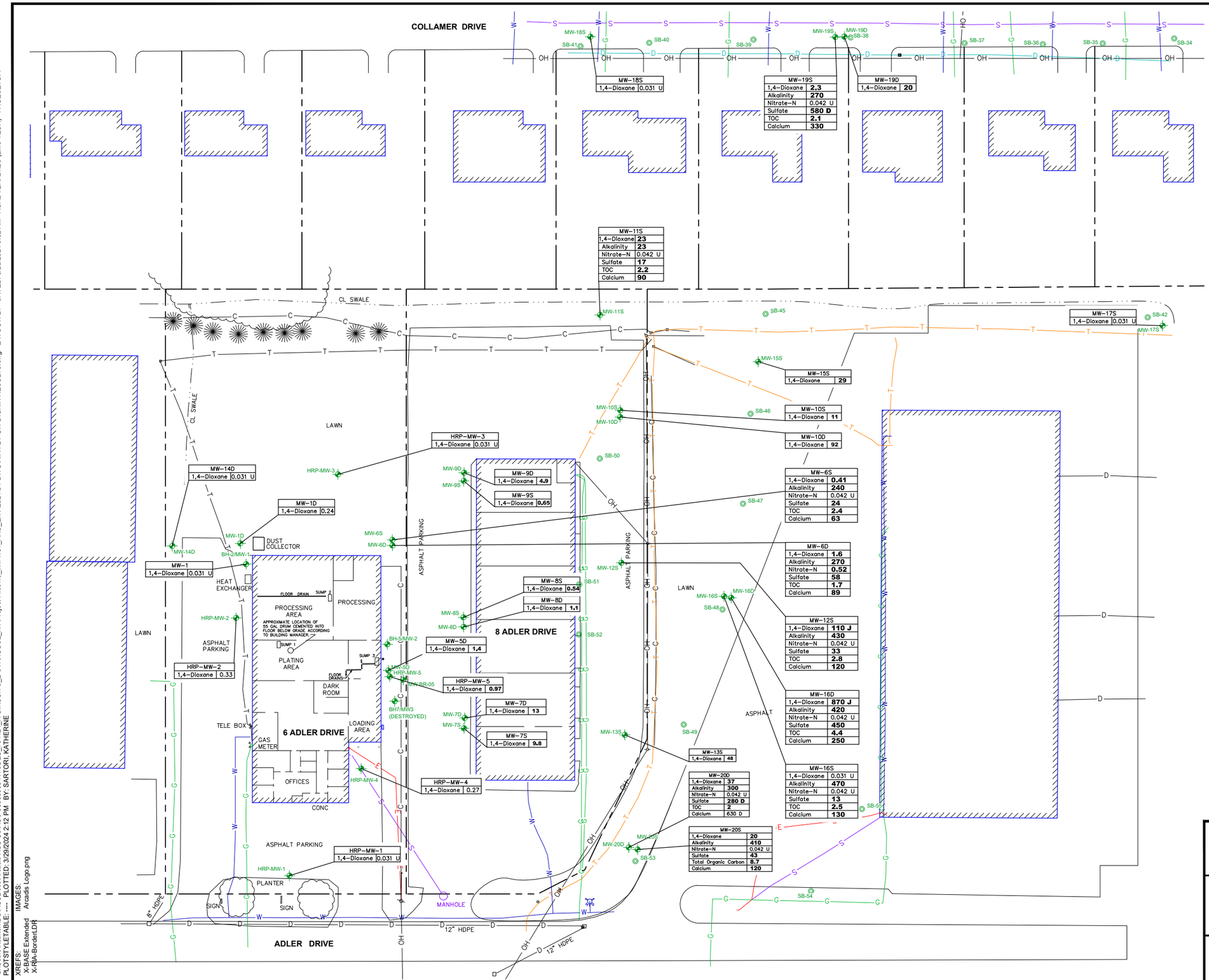
0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

MONITORING WELL VOLATILE ORGANIC COMPOUNDS SAMPLE RESULTS

ARCADIS

FIGURE 20



LEGEND:

- MONITORING WELL
- SOIL BORING (2022)
- EXISTING PROPERTY LINE
- EXISTING HYDRANT
- OH — EXISTING OVERHEAD WIRE
- G — EXISTING GAS
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   U = NOT DETECTED. REPORTING LIMIT SHOWN.
   NJ = TENTATIVELY DETECTED AND ESTIMATED IN VALUE.
   NS = NOT SAMPLED.
6. VALUES ARE IN MG/L, EXCEPT 1,4–DIOXANE, WHICH IS IN UG/L.

0 30' 60'
GRAPHIC SCALE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NORTHERN CIRCUITS - SITE NO. 734124
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK

MONITORING WELL 1,4-DIOXANE AND BIOGEOCHEMICAL INDICATOR SAMPLE RESULTS

ARCADIS

FIGURE 21

C:\Users\ksarton\DC\ACCDocs\Arcadis ACC USAUS-99999999-NYSDEC_734124_N CIRCUITS_E SYRACUSE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\RIA-F21-GW DIOXIN RESULTS.dwg LAYOUT: 21 SAVED: 3/28/2024 9:02 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 3/29/2024 2:12 PM BY: SARTORI, KATHERINE
XREFS:
X-BASE Extended
X-RIA-Border\DR
IMAGES:
Arcadis Logo.png

Appendix A

Geophysical Survey

ALLEGHENY UTILITY SOLUTIONS LLC

Service-Disabled Veteran-Owned Small Business
SDVOSB
CVE

Geophysical Investigation

Northern Circuits Drilling Site

Adler Dr & Collamer Dr

East Syracuse, NY 13057

1. INTRODUCTION

AUS was tasked to perform an investigation at the Northern Circuits site in East Syracuse, NY. The objective of the investigation was to locate utility lines and other subsurface structures using surface geophysical techniques, so that drilling activity could safely proceed. The proposed drilling sites were at 8 and 10 Adler Dr, and in the roadway in front 6354, 6358, 6362, 6366, 6372, and 6378 Collamer Dr. The purpose of the investigation was to clear proposed drilling locations of utility lines and other subsurface features.

The field work was performed on 4/4/2022. Arcadis personnel were on site with AUS while the work was performed.

2. METHODOLOGY/ RESULTS

Two methods were used to identify utilities, ground penetrating radar (GPR) and electromagnetic (EM) locating equipment.

A Radiodetection RD8100 EM locator was used to locate conductive utilities. Several frequencies and power levels were utilized. Locations of electric, communications, water, and gas lines were determined using this equipment. Storm and sanitary sewers were not detectable with this equipment.

The target areas were scanned using a ground penetrating radar (GPR). The model used was a US Radar Quantum triple frequency unit, utilizing a high, mid, and low frequency antenna set at 286 ft./ns. Scanning took place 10' in each direction from each boring location. Storm sewers were detected with GPR. Due to site conditions, we were unable to locate the sanitary sewer mains on Collamer Dr, and the sewer lateral to 8 Adler Dr. Also, the GPR was used to confirm the location of markings made by utility company locators prior to our arrival at the site.

A site map is included in the appendix. Additionally, location data in AutoCAD and .kmz format will be delivered along with this report.

Limitations of GPR Technology

There are several conditions that limit the effectiveness of Ground Penetrating Radar:

- Moisture
- Soil Composition – Soil that have highly conductive properties, such as clay, greatly attenuate the radar signal. Areas that have been backfilled can also negatively affect interpreting GPR data.
- Composition/Depth of Target – Targets that have similar electrical properties the soil it is buried in can be difficult to identify.
- Surface impediments.

3. CONCLUSION

No significant anomalies or utility lines were found to be in direct conflict with any of the proposed drilling locations. Drilling activity can safely proceed.

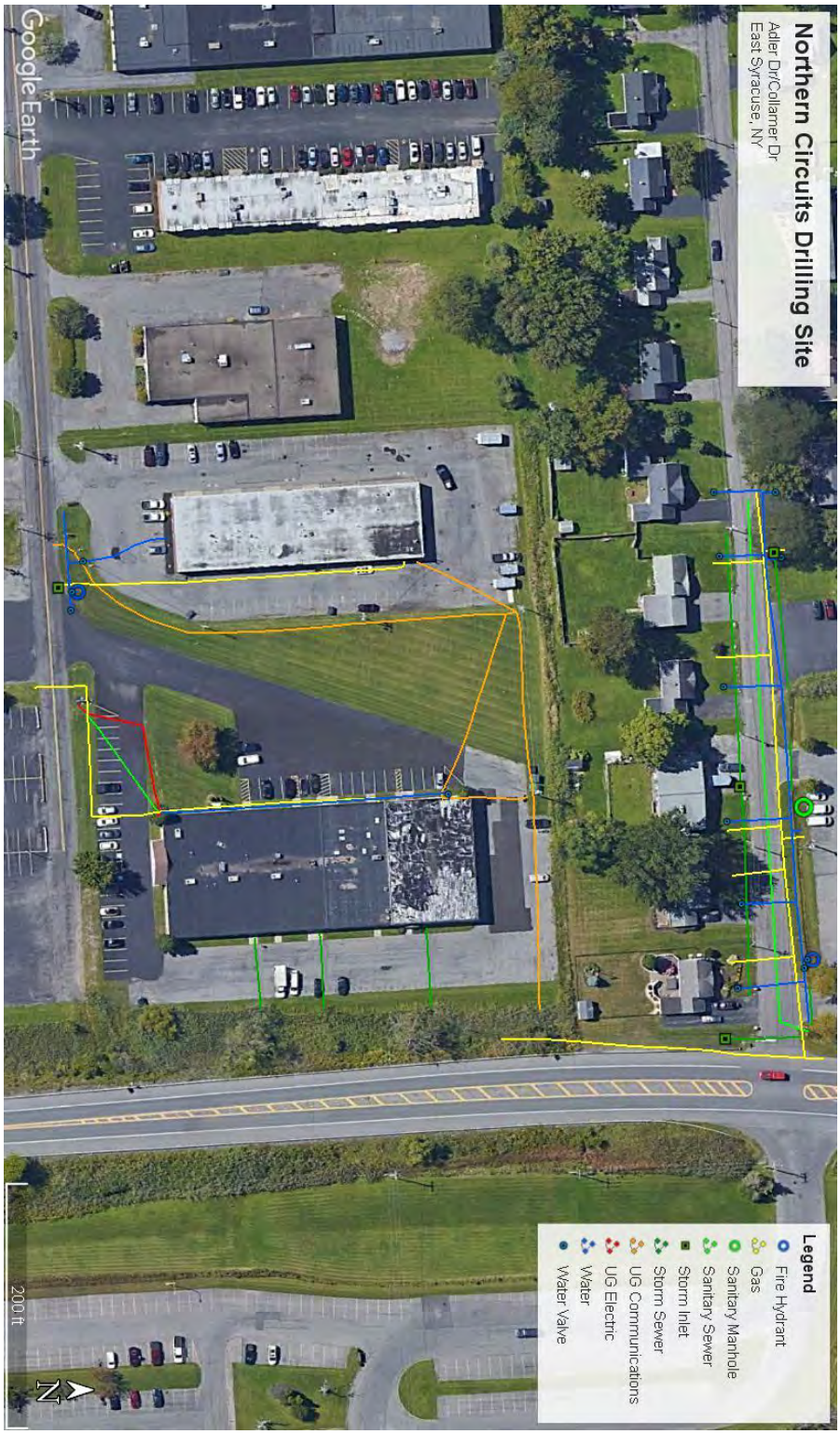
REPORT PREPARED BY:

JOSH McCONNELL 4/4/2022



4. APPENDIX

SITE MAP



Quantum Imager

ADVANCED GPR SYSTEM

USRADAR INC.
SUBSURFACE IMAGING SYSTEMS

The triple frequency Quantum Imager by US Radar is capable of significantly greater depths with higher resolution than any other locating technology. Stepped Ultra Wideband Pulses combine the advantages of pulse radar and stepped frequency radar to offer unsurpassed resolution & depth.

New Direct RF sampling technology creates clearer, easier to understand images than previously possible with older radar technologies. All these technologies work transparently behind the scenes to make locating easier.



FEATURES

STEPPED PULSE TRIPLE FREQUENCY ANTENNA
- Triple frequency antenna means three scans in one
- Sloped antenna design easily glides over obstacles
- Optional GPS integration

DURABLE, GLARE-RESISTANT TABLET INTERFACE
- Daylight readable, weatherproof Getac tablet interface
- High performance CPU enables real-time data processing
- Built-in 3D view capability
- WiFi supported
- USB, Ethernet, HDMI and Audio ports

HOT SWAPPABLE BATTERY PACKS
- Two hot-swappable battery packs included in each system
- Each battery lasts a total runtime of 8 hours each
- Battery packs have lifespan of several years

GPS INTEGRATION (Optional)
- Optional GPS Pole mount
- Enables GPS to be centered over antenna
- Integrates with most high-end GIS and RTK units
- Optional integration with Google Earth

AIRLESS TIRES
- Airless, solid tires that cannot go flat
- Require no maintenance

EASY STORAGE
- Folding cart handle and controller tablet mount for easy storage.

SPECIFICATIONS

GETAC F110 RADAR CONTROLLER
- Operating System: Windows 7 or 10 64-bit
- Third-generation Intel® Core™ i5vPro™ Processor
- Durability: MIL-STD-810G, 4-foot drop and all-weather IP65 dust and water resistant design
- Display: 11.6 inch, HD daylight-readable, ten-point multi touch + digitizer
- I/O Interface: Ethernet Port, DC Power Port, 1 USB 3.0 Port, HDMI Port, WiFi and Bluetooth
- Expansion Options: MicroSD or second USB 2.0 port, RJ45 Ethernet, Dedicated GPS
- Communications: Wi-Fi, Bluetooth® and optional 4G LTE or 3G Gobi™

SOFTWARE
- Microsoft Windows
- USRadar offers a variety of optional onboard and desktop software configurations including
  - GPS
  - 3D
  - GIS Mapping
  - Report Generation
  - and more!

SYSTEM SCAN MODES
- Maximum typical logging scan rate of 390 traces per second
- Trigger Modes: Free run, timed interval, shaft encoder, GPS, manual
- Nominal Sampling Rate: 650,000,000 samples per second
- Maximum Resolution: 100 Giga-samples per second
- Hardware Time Varying Gain: 45dB
- Software Time Varying Gain: 60dB
- Software Flat Gain: 60dB

ENVIRONMENTAL
- Temperature: -11 deg. to 50 deg. C
- Moisture and dust resistance: IP 65

RADAR HARDWARE
- Total System Dynamic Range: >130 dB
- Receiver Dynamic Range: >90 dB
- Sampling Interval: 10 ps-6.4 ns
- Time Range Adjustment Interval: 10 ps
- Pulse Repetition Frequency: 0.1-4 MHz-adjustable
- Samples per Trace: 2-8192, Adjustable
- Effective Bandwidth (typ.): >4 GHz
- Stacking: Automatic
- Transmitter: Stepped Ultra Wideband Triple Frequency

SUPPORT
- Warranty: 2 Years Parts and Labour
- Complimentary telephone and email technical support

RADIODETECTION®

SPX®

RD7100® and RD8100®

Precision Cable, Pipe & RF Marker, and Cable & Pipe Locators

Locate, Track and Map buried assets

As utility infrastructures become more and more complex, the RD7100 and RD8100 ranges offer locate professionals as well as occasional users the tools that simplify the task of tracing and distinguishing between different utilities

Key features▲

- Detect all commonly used RF utility markers with automatic depth estimation for faster, accurate surveys
- **RD Map**™ cell-phone app for the real time* creation of detailed buried utility maps
- Combined mode to scan simultaneously for cables, pipes and RF markers reducing surveying time
- **Current Direction**™ to help identify the target amongst a number of parallel utilities by applying a specialized CD signal
- Simultaneous depth and current readings, enabling faster surveys
- Bluetooth connectivity as standard to interface to external devices and GIS systems
- Integrated GPS option provides an easy interface to mapping databases and survey validation
- **Power Filters**™ can pinpoint and discriminate between multiple power cables by exploiting their harmonic properties
- High contrast screen and weatherproof (IP65) construction for operation in almost any environment
- Light weight and ergonomic design allow prolonged usage
- Screen and operations common across Radiodetection's Precision Locator ranges minimizing changes in working practice and re-training needs
- Integral logging system records significant locate parameters every second (including positional data for GPS models) storing up to 1 year of typical usage data
- USB connectivity to quickly retrieve internal logs or to perform setup, validate or upgrade operations using the RD Manager™ PC software
- Built-in Li-Ion rechargeable batteries as standard for extended battery life and cost effective operation

▲ Some features are model dependent, check specifications for details

* Requires Android 5.1 or higher and data connectivity. Not available in countries where Google Maps is blocked. Maps can be exported as CSV or KML files. Bluetooth models only.







EXTENDED WARRANTY
Warranty can be extended to a total of 3 years by registering the equipment. Registration is free and provides access to software upgrades and other online features.

	7100 locators		8100 locators	
	Cable & Pipe	Cable, Pipe & RF Marker	Cable & Pipe	Cable, Pipe & RF Marker
Locate Frequencies	4-7	5-7	16-24	17-25
Active Locate Modes	3-4	4	5	5
RF Utility Marker Frequencies		9		9
Custom Locate Frequencies			✔	✔
Combined Locate Mode ‡		✔		✔
Sonde Frequencies	0-4	1-4	4	4
Passive Modes	2-3	2-3	2-5	5
On-board GPS	●		●	✔
Power Filters	●	●	✔	✔
Usage-Logging	●	●	●	●
CALSafe™	●	●	●	●
4 kHz for High Impedance Lines			✔	✔
Current Direction			●	●
Fault Find	●	●	●	●
Depth in Power	●	●	●	●
Passive Avoidance			●	●
iLOC			✔	✔
Lithium-Ion Battery	●	✔	●	✔
Bluetooth		✔	✔	✔
3 Year Warranty on Registration*	✔	✔	✔	✔

‡ Locates marker balls and cables & pipes simultaneously

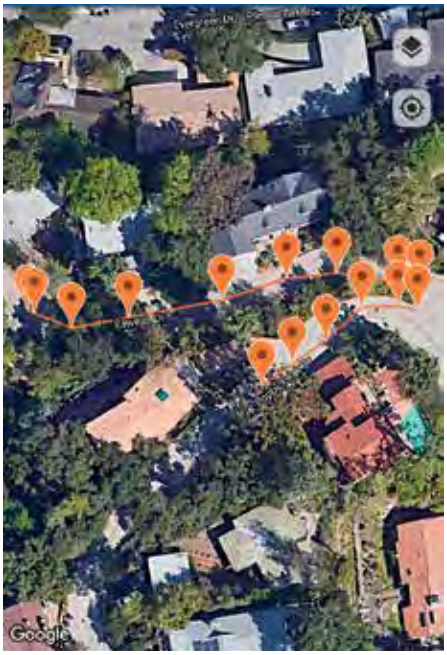
Transmitters	Tx-1	Tx-5(B)	Tx-10(B)
Max. Output Power	1W	5W	10W
Active Frequencies	16	16	16, 36
Induction Frequencies	8	8	8
Current Direction Frequencies			0-14
iLOC Remote Control		●	●
Fault Find		✔	✔
Relative Induction Field Strength	0.7	0.85	1.00
Eco Mode		●	●
Lithium-Ion Battery	●	●	●
3 Year Warranty on Registration*	✔	✔	✔

*Locators and transmitters only. Does not include battery packs and accessories.

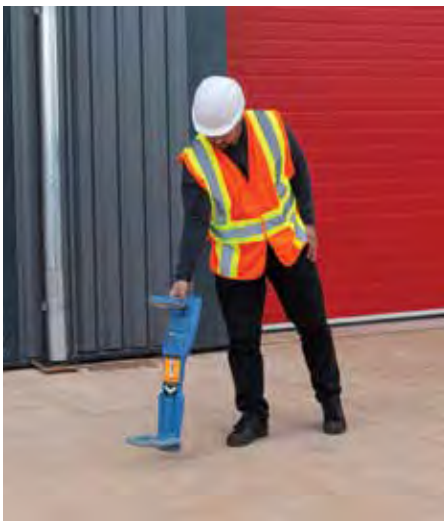
Other features described are standard on the RD8100 Locators and Tx transmitters unless otherwise noted.

✔ Available, enabled by default. ● Option. ■ Available, disabled by default.

Download the full Product Specifications at **www.radiodetection.com/RD8100** and **www.radiodetection.com/RD7100**



Create detailed maps of buried utilities in real time. Survey measurement data is added to GPS information to map the route of the tracked utility.



Visit **www.radiodetection.com**

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90/71M-81M-ENG/01

DATASHEET

Trimble TDC150

HANDHELD

KEY FEATURES

- Integrated high-accuracy GNSS receiver
- Scalable positioning accuracy from meter to centimeters
- Android™ 6.0 operating system
- 5.3-inch sunlight readable multi-touch capacitive screen
- Google Mobile™ services certified to run Google core applications and services
- Compatible with Trimble or third-party software applications
- High speed 4G LTE cellular data connectivity
- Ultra-rugged design with MIL-STD-810 certification and rated IP67
- Removable, all day battery
- Fast Qualcomm® processor with 2 GB RAM and 16 GB internal storage
- Ergonomic form factor
- Front- and rear-facing cameras

Learn more:
geospatial.trimble.com/tdc150



Trimble TDC150 HANDHELD

GNSS CHARACTERISTICS

- 240 GNSS channels
  - GPS L1C/A, L1P(Y), L2P(Y), L2C
  - GLONASS L1C/A, L2C/A
  - BeiDou B1 (phase 2), B2
  - Galileo E1, E5b
  - QZSS L1C/A, L2C, L1SAIF
  - SBAS L1C/A
  - L-band
- Scalable accuracy from meter to centimeter (meter, sub meter (30/30), decimeter (7/2), centimeter)
- Patented Z-Blade technology for optimal GNSS performance
  - Full utilization of signals from all 6 GNSS systems (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
  - Enhanced GNSS-centric algorithm: fully-independent GNSS signal tracking and optimal data processing, including GPS-only, GLONASS-only or BeiDou-only solution (autonomous to full RTK)
  - Fast Search engine for quick acquisition and re-acquisition of GNSS signals
- Patented SBAS ranging for using SBAS code & carrier observations and orbits in RTK Processing
- Patented Strobe™ Correlator for reduced GNSS multi-path
- Supported data formats: ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 and 3.2 (including MSM), CMRx and sCMRx

REAL-TIME ACCURACY (RMS)[1, 2]

SBAS (WAAS/EGNOS/MSAS/GAGAN)

Horizontal	< 50 cm
Vertical	< 85 cm

Real-Time DGPS position

Horizontal	25 cm + 1 ppm
Vertical	50 cm + 1 ppm

Real-Time Kinematic Position (RTK)[3]

Horizontal	10 mm + 1 ppm
Vertical	15 mm + 1 ppm

REAL-TIME PERFORMANCE

Instant-RTK® Initialization	Typically 2 sec for baselines < 20 km Up to 99.9% reliability
RTK initialization range	over 40 km

DATA LOGGING CHARACTERISTICS

Recording interval	1–999 seconds

PROCESSOR

- Qualcomm Snapdragon™ 410
- Quad-core
- Clock frequency: 1.2 GHz

OPERATING SYSTEM

- Android 6.0 (Google certified)
- Languages available: Afrikaans, German, English, Spanish, French, Italian, Portuguese (Portugal and Brazil), Japanese, Korean, Simplified Chinese, Greek, Russian, Azebaijani, Czech, Danish, Lithuanian, Hungarian, Dutch, Norwegian (Bokmal), Romanian, Finnish, Swedish, Turkish, Bulgarian, Serbian (Cyrillic), Hindi, Polish
- Software package includes: Google Mobile Services

MEMORY

- 2 GB SDRAM
- Storage: 16 GB (non volatile).
- MicroSDHC™ memory card (up to 64 GB, SanDisk®, Kingston® recommended)

INTERFACE

- USB 2.0 (micro)
- External antenna connector (TNC)
- Audio jack 2.5 plug (CTIA/AHJ standards)

COMMUNICATIONS

- Cellular: GSM (850,900,1800,1900), GPRS, EDGE, UMTS, WCDMA (B1, B2, B5, B8), HSPA, TDSCDMA (B34, B39), LTE-FDD(B1, B3, B4, B5, B7, B8, B20), LTE-TDD (B38/B39/B40/B41)
- Wi-Fi (IEEE) 802.11 b/g/n
- Bluetooth® 4.0 dual mode
- USB (micro B USB connector)
- NFC

ENVIRONMENTAL CHARACTERISTICS

Operating temperature	–20 °C to +60 °C (–4 °F to 140 °F)
Storage temperature	–30 °C to +70 °C without battery (–22 °F to 158 °F)[5]
Humidity	95% non condensing
Water & dust proof	IP67
Free drop	1.2 m on concrete
Shocks	MIL STD 810 (fig 516.5-10) (01/2000)
Vibration	MIL-STD-810F (fig 514.5C-17) (01/2000)

POWER CHARACTERISTICS

Battery	Li-Ion, 6400mAh
Battery life	> 8 hrs @ 20 °C with GNSS on
Charging time	4 hours
Removable battery	

PHYSICAL CHARACTERISTICS

Size	29.5 x 12 x 4.5 cm (11.6 x 4.7 x 1.8 in)
Weigh	850 g (1.87 lb)
User interface	2 volume keys, on/off/reset key, 2 programmable keys, standard Android touch panel buttons
On screen keyboard display	
Size	5.3" capacitive multi touch
Resolution	1280x720 pixels
Brightness	450 Cd/m²
Gorilla Glass damage-resistant	
Auto rotate	between Portrait and Landscape

MULTIMEDIA & SENSORS

- Rear camera 13 MP pixels with flash light
- Front camera 2 MP pixels
- E-Compass
- G-sensor
- Speaker
- Microphone
- Light sensor

STANDARD ACCESSORIES

- Handstrap
- Screen protectors (x2)
- A/C charger
- USB cable
- Pouch
- Battery door opener
- Monopole adaptor

OPTIONAL ACCESSORIES

- External GNSS antenna
- Pole bracket
- Monopole

OPERATING MODES

- RTK rover: Direct IP, NTRIP (VRS, FKP, MAC networks)
- Post-processing (if supported by the field application)

FIELD SOFTWARE

- Trimble TerraFlex™
- Trimble Penmap® for Android
- Third-party Android applications

1 Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellite geometry and corrections availability and quality.
2 Performance values assume minimum of five satellites, following the procedures recommended in the product manual. High multipath areas, high PDOP values and periods of severe atmospheric conditions may degrade performance. Real time accuracies depend on TDC150 accuracy option.
3 TDC150 centimeter used with Monopole accessory.
4 Long baselines, long occupations, precise ephemeris used.
5 Batteries can be stored up to +70 °C.
6 Receiver convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings. Convergence can be improved in RAM enabled regions.

Specifications are subject to change without notice.

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Appendix B

Soil Boring Notes

7-5-22

Northern Circuits

0730 Arcadis @ storehouse
0800 Arcadis picking up EQ @ Pine
0820 Arcadis on site
0830 tailgate safety meeting
0845 Arcadis walking site and laying out boring location
0900 PW setting up VAC Truck
0930 PW Begin hand clearing SB-54
1010 PW Encountered large log @ 3.5' (Widening hole to get around)
1100 PW still hand clearing SB-54
1145 PW begin hand clearing SB-55
1150 Steve DeVitt Water on site
1200 Arcadis purging SB-545 (QAP-070522)
1210 Sample SB-545
1240 PW finish hand clear SB-55
1245 Arcadis purging SB-555
1300 Arcadis sampling SB-555
1320 PW Hand clearing SB-56
1355 Finish clearing SB-56
1400 Arcadis purging SB-565
1410 Arcadis sampling SB-565
1420 PW Back filling SB-54 55 56
1455 PW Hand clearing SB-53
1520 PW finish hand clearing SB-53

7-5-22

1525 Arcadis purging on SB-535
1550 Arcadis sampling SB-535
1615 Arcadis off site

Rite in the Rain

7-6-22

Northern Circuit

0745 Arcadis on site
0805 Tailgate safety meeting
0830 PW hand clearing SB-47 borehole MW-16
0930 PW Finish clearing for MW-16
Moving to borehole SB-42 (SB-175)
1010 PW finish hand clearing SB-175
Location moving to collared
1020 PW getting more coldpatch from shop
1100 PW hand clearing SB-38 (MW-19) Location
1205 PW finish clearing MW-19 Location
1910 PW back filling and patching hole
1245 Arcadis + PW off site.

Northern Circuit

7-7-22
0750 Arcadis + PW on site
0755 Tailgate H+S meeting
0805 PW setting up rig on SB-53
Arcadis setting up Air monitoring
UPWind 15598, 45753
Downwind 18004, 44806
0820 PW begin drilling SB-53
0950 PW hit till arcadis collecting SB-53D
1015 Arcadis collecting SB-53T
1025 PW Resume drilling
1210 PW + Arcadis lunch break
1250 Resume drilling
1330 PW traveling back to shop for tooling
1400 Resume drilling
1425 Refusal @ 36.5'
Installing temp well for sample SB-53D
1520 Arcadis collecting SB-53D
1530 PW grouting hole + pulling augers
1610 Off site

Rite in the Rain

SB-53

Drilling Co: P-W

Driller: R. Nowotka

Rig: CME-55

7-7-22

Geo: D. Nearpass

Interval	Time	Rec	PID	Notes
0-5		NA	0.0	Hand clear
5-6	0830	0.4	0.0	
6-8	0840	1.3	0.0	
8-10	0850	1.4	0.0	
10-12	0900	1.3	0.0	
12-14	0915	0.9	0.6	
14-16	1030	1.4	0.0	
16-18	1045	1.2	0.0	
18-20	1100	1.4	0.0	
20-22	1110	1.3	0.0	
22-24	1120	1.5	0.0	
24.0-26	1135	1.1	0.0	
26-28	1150	1.5	0.0	
28-30	1210	1.1	0.0	
30-32	1220	1.6	0.0	
32-34	1235	1.2		
34-36	1250	0.9	0.0	
36-36.5				

7-7-22

0.0-0.5 10YR 3/3 Dark Brown SILT, some Organics (grass roots), little fine Sand, moist, med. firm, NP.

0.5-4.1 10YR 3/3 Dark Brown SILT and fine to med. SAND, little to trace fine sub-rnd Gravel, trace Organics, moist, med. firm, NP.

4.1-5.0 7.5YR 4/4 Brown Silt, some med. Sand, little fine sub-rnd Gravel, moist, med. firm, NP.

5.0-5.3 - 10YR 3/3 Dark Brown SILT and fine to med. SAND, trace fine sub-rnd Gravel, moist to wet, soft, NP.

5.3-6.0 - SAA

6.0-8.0 - 10YR 4/2 Dark Grayish Brown med. SAND, little Silt, wet, soft to med. firm NP.

8.0-8.6' - 10YR 4/3 Brown SILT, some fine to med. Sand, trace fine sub-rnd Gravel, wet, med. firm, NP.

8.6-10.0 - 10YR 4/3 Brown med. SAND, some Silt, wet, med. firm, NP.

10.0-10.6 - 10YR 4/3 Brown fine to med. SAND and Silt, med. firm, wet, NP.

Rite in the Rain

7-7

10.6-10.8- 10YR 5/1 Gray fine SAND, some Silt, trace fine sub-ang Gravel, wet to moist, NP.
10.8-12.0- 5YR 4/3 Reddish Brown fine to med SAND, some Silt, little to trace fine sub-ang Gravel, dry, slit, NP.
12.0-14.0- SAA
* trace sub-round Gravel
14.0-16.0- 5YR 4/3 Reddish Brown fine to med SAND, some Silt, little fine sub-round to sub-ang Gravel, moist to dry, slit, NP.
16.0-18.0 - SAA
18.0-20.0 - SAA, moist to dry
* trace med. sub-round to sub-ang Gravel @ 18.4
20.0-20.4- 5YR 4/3 Reddish Brown med. SAND and SILT, trace fine sub-round Gravel, moist, slit, NP.
20.4-22.0 - 5YR 4/3 Reddish Brown med. SAND, some Silt, little fine sub-ang to sub-round Gravel, moist to dry, very slit, NP.

7-7

22.0-23.4- 5YR 4/2 Dark Reddish Gray fine to med SAND, some Silt, little fine to med. sub-ang to sub-round Gravel, dry to moist, firm/stiff, NP.
23.4-23.6- 5YR 3/1 Very Dark Gray sub-ang GRAVEL, little med. Sand, little Silt, moist to wet, firm, NP.
23.6-24.0- 5YR 4/2 Dark Reddish Gray fine to med. SAND, some Silt, little fine sub-ang Gravel, moist to dry, firm, NP.
24.0-26.0 -SAA
26.0-26.9- 5YR 4/3 Reddish Brown fine SAND, little Silt, trace fine sub-ang Gravel, moist, med. firm, NP.
26.9-28.0- 5YR 4/2 Dark Reddish Gray fine to med. SAND, some to little Silt, little fine to med. sub-round to sub-ang Gravel, moist to semi dry, slit, NP.
28.0-30.0 - 5YR 4/2 Dark Reddish Gray fine SAND and SILT, little to trace fine sub-ang to sub-round Gravel, moist, firm, NP.

Rite in the Rain

7-7

30.0-30.2 - SAA

30.2-30.7 - 5YR 4/2 Dark Reddish Gray fine to med. SAND some Silt banding, trace Very fine subang Gravel, moist, med. firm, NP.

30.7 - 32.0 - 5YR 5/3 reddish brown SAND, some to little Silt wet, soft to med. firm, NP.

32.0 - 32.8 - SAA

32.8 - 33.3 - 5YR 4/1 Dark Gray Coarse SAND and fine sub-rand Gravel, little Silt, moist to wet, med. firm, NP.

33.3 - 33.5 - 5YR 5/3 Reddish Brown med. SAND, some Silt, little to trace fine subang Gravel, firm, moist, NP.

33.5-34 SAA, some fine to med. sb ang Gravel, stiff, moist to dry, NP.

7-7

34.0-34.5 - Gley 2 5/1 Bluish Gray fine to med. sub-round GRAVEL and SILT little fine Sand, moist, soft to med. firm, NP.

34.5-36 - 5YR 3/3 Dark Reddish Brown med. SAND, some Silt, little fine sub-round Gravel, moist, dry, firm to stiff, NP.

36.0-36.3 - ~~SAA~~ SAA

36.3-36.5 - 10YR 6/1 Gray Crushed BEDROCK, little fine Sand, dry, stiff, NP.

7-8-22

Northern Cross

0740 Arcadis + PW on site
0745 Tailgate safety meeting
0750 PW setting up Decon Pad
0810 PW decanting augers
0850 PW setting up rig on SB-55
0910 PW begin Drilling
1000 Install temp well for SB-55I sample
1030 Arcadis collecting SB-55I
1040 Resume drilling
1200 Lunch
1235 Resume Drilling
1345 Refusal @ 39', Installing temp well
1350 Arcadis pumping on SB-55D
1420 Arcadis sample SB-55D
1430 PW pulling augers + grouting hole
1600 off site

7-8-22

SB-55
Drilling Co: PW
Drillers: R. Nordbo Geo: DRM
Rig: CME-55

Interval	Time	Rec	PID	Notes
0-5	—	—	0.0	Hand clear
5-6	0925	0.9	0.0	
6-8	0930	1.3	0.0	
8-10	0935	1.4	0.0	
10-12	0940	1.3	0.0	
12-14	0945	1.4	0.0	
14-16	0955	1.3	0.0	
16-18	1000	1.7	0.0	
18-20	1015	0.8	0.0	
20-22	1055	0.7	0.0	
22-24	1115	1.1	0.0	
24-26	1120	0.8	0.0	
26-28	1130	1.1	0.0	
28-30	1145	1.5	0.0	
30-32	1245	1.6	0.0	
32-34	1255	1.7	0.0	
34-36	1305	1.4	0.0	
36-38	1315	0.4	0.0	Spoon ref. @ 36.5
38-40	1330	0.3	0.0	ref @ 38.5

Rite in the Rain

7-8

0.0-0.5- 10YR 3/3 Dark Brown SILT some Organics (grass+roots), little fine Sand, moist, med firm, NP.

0.5-4.2 - 7.5YR 4/4 Brown fine to med. SAND and SILT, little fine to med. sub-ang. Gravel, moist, med. firm, NP.

4.2-5.0- 10YR 3/3 Dark Brown SILT, some med. Sand, little fine sub-ang Gravel, trace Organics, moist, med

5.0-6.0 - 10YR 3/3 Dark Brown SILT, some fine Sand, little sub-round Gravel, trace Organics (roots) moist, med. firm, NP.

6.0-6.2 - SAA

6.2-6.9 10YR 4/4 Dark Yellowish Brown fine SAND some Silt, wet, med. firm, NP.

6.9-8.0 - 5YR 4/4 Reddish Brown fine SAND, some Silt, wet, med. firm, NP.

8.0-8.3 -SAA

8.3-10.0- 10YR 5/4 Yellowish Brown fine to med SAND, some to little Silt, wet, med. firm, NP.

7-8

10.0-12.0- SAA * decreasing SILT content with depth

12.0-12.5-SAA

12.5-13.0- 10YR 4/2 Dark Grayish Brown fine to med. SAND little Silt, wet, med. firm NP.

13.0-13.1 -10YR 4/1 Dark Gray SILT, little Clay, moist to wet, soft, NP.

13.1-14.0- 10YR 4/1 Dark Gray med. SAND and SILT, trace fine sub-ang Gravel, wet, med. firm, NP.

14.0-16.0- 5YR 4/2 Dark Reddish Gray med. SAND, some Silt, little fine sub-round to sub-ang Gravel, moist, med. firm, NP.

16.0-17.1 -SAA

17.1-18.0 - 5YR 4/2 Dark Reddish Gray med. SAND, some Silt, little to trace fine sub-round Gravel, moist becoming dry, firm becoming stiff NP.

18.0-20.0 -SAA, Dry

Rite in the Rain

mn

7-8

20.0-22.0- 5YR 3/4 Dark Reddish Brown fine SAND some Silt, little fine sub-round to sub-ang Gravel, dry, stiff, NP.

22.0-24.0 - SAA
* Med. SAND seam @ 22.3 wet to moist
24.0-26.0 -SAA
26.0-28.0 - 5YR 4/2 Dark Reddish Gray fine to med. SAND, some to little Silt, trace fine subround to sub-ang Gravel, moist, firm, NP.
* medium Sand seam @ 26.4'
28.0-30.0- SAA
& moist to dry
30.0-30.5 -SAA
30.5-32.0- 5YR 5/2 Reddish Gray med. SAND, little Silt, wet, loose to med. firm, NP.
32.0-34.0 -SAA
& becoming 5YR 4/1 Dark Gray
x Silty lens @ 32.6

7-8

34.0-34.9- 5YR 4/1 Dark Gray fine to med. SAND, some to little Silt, wet, med. firm, NP.
34.9-35.0- 5YR 4/1 Dark Gray cmt SAND some fine sub-round Gravel, wet loose, NP.
35.0-36.0- 5YR 3/4 Dark Reddish Brown med SAND, some Silt, little fine sub-round to sub-ang Gravel, moist to dry, stiff NP
36.0-36.4 - 5YR 3/4 and 3/1 Dark Reddish Brown and Dark Gray mottled fine SAND, some Silt, some weathered Bedrock, moist, firm, NP.
36.4-38.0 - SAA

38.0-38.3 - SAA
38.3-38.5- Weathered BEDROCK and 5YR 3/3 Dark Reddish Brown Silt, moist, firm, NP.

Rite in the Rain

7-11-22

Northern Cascades

0745 Arcadis + PV on site
0755 Tailgate safety
0810 PV Deconning augers
0910 Waiting for car to move off SB-54
0940 PV begin drilling @ SB-54
1050 Arcadis installing temp well and collecting SB-54I sample
1110 Collecting SB-54I
1125 Resume drilling
1145 Level
1205 Resume Drilling
1430 PV Installing temp well Ref @ 38.5'

7-11-22

SB-54
Drilling Co: PV
Drillers N. Navalta Geo: DZM
Rig: CME-85

Interval	Time	Rec	PID	Notes
	–	–	0.0	Hand auger
0-5				
5-6	0955	0.9	0.0	
6-8	1005	1.3	0.0	
8-10	1015	1.5	0.0	
10-12	1025	1.4	0.0	
12-14	1030	1.4	0.0	
14-16	1045	1.2	0.0	
16-18	1130	1.4	0.0	
18-20	1205	1.1	0.0	
20-22	1215	1.2	0.0	
22-24	1225	1.1	0.0	
24-26	1235	1.4	0.0	
26-28	1250	0.8	0.0	
28-30	1320	1.5	0.0	
30-32	1335	1.2	0.0	
32-34	1350	0.9	0.0	
34-36	1405	1.2	0.0	
36-38	1420	1.2	0.0	
38-SB.S	1430	0.5	0.0	
~~40-42~~	~~1445~~		~~0.0~~	

0.0-0.4 ASPHALT

0.4-1.2- 10YR 3/3 Dark Brown cmf SAND little Silt, little fine subang Gravel, moist, not firm, NP

1.2-4.1 - 10YR 3/3 Dark Brown med. SAND some Organics (Old logs/roots) little Silt, moist, not. firm, NP

4.1-5.0 - 10YR 4/3 Brown med. SAND and SILT, trace fine sub-ang Gravel, moist, not firm, NP.

5.0-6.0 - 10YR 4/3 Brown SILT, little med. Sand trace Organics (roots), trace Clay, moist soft NP.

6.0-6.6 - SAA

6.6-8.0 - 5YR 4/3 Reddish Brown fine to med. SAND, some Silt, trace fine sub-ang Gravel, wet, not. firm, NP.

8.0-10.0 - 5YR 3/3 Dark Reddish Brown med. SAND, little to trace Silt, wet, not. firm, NP.

10.0-12.0 - SAA, becoming 7.5YR 4/3 Brown

12.0-12.5 - SAA

12.5-14.0- 5YR 4/1 Dark Grey fine to med. SAND, little Silt (increasing w/ depth), wet, not. firm, NP.

14.0-14.2 -SAA

14.2-16.0- 5YR 3/2 Dark Reddish Brown med. SAND, some Silt, little fine sub-ang to sub-rnd Gravel moist becoming dry, firm, NP.

16.0-18.0 - SAA Silt, Dry

18.0-20.0 - SAA

20.0-22.0- 5YR 3/2 Dark Reddish Brown fine to med. SAND some Silt, little fine ang to sub-rnd Gravel, dry, stiff, NP.

22.0-24.0- SAA

24.0-26.0- SAA

* cmf SAND layer @ 24.5'

26.0-26.7 - SAA

26.7-26.8 - GLEY 1 2.5/1 Greenish Black weathered BEDROCK

Rite in the Rain

28.0 - 30.0 - 5YR 3/3 Dark Reddish Brown fine to med SAND, some Silt, little to trace fine sub-ang to sub-rand Gravel, dry, stiff, NP.

30.0 - 32.0 - SAA

32.0 - 34.0 5YR 3/3 Dark Reddish Brown med. SAND, some to little Silt, trace fine sub-ang to sub-round Gravel, moist, firm, NP.

34.0 - 34.1 - SAA

34.1 - 34.7 - 5YR 4/2 Dark Reddish Gray med. SAND little Silt trace sub-rand Gravel, med. firm, wet, NP.

34.7 - 36.0 - GLEY 1 3/1 Very Dark Greenish Gray weathered BEDROCK, little Silt trace fine Sand, moist, med. firm to firm, NP.

36.0 - 36.6 - SAA

36.6 - 36.9 - 5YR 4/4 Reddish Brown med. SAND, little Silt, moist, med. firm, NP.

36.9 - 38.0 - GLEY 1 3/N Very Dark Gray weathered BEDROCK becoming competent

7-12-22

0740 Arcadis + PW on site

0745 Tailgate safety meeting

0755 PW staging drums + decoring augers

0815 PW setting up on SB-56

0820 Waiting for cas to move

0900 Begin drilling @ SB-56

1130 Lunch

1200 Collecting intermediate water sample

1310 Resume Drilling

1600 Halt drilling @ 38'

1620 Off site

Rite in the Rain

SB-56

Drilling Co: DV 7-12-22

Drillers: R. Novatka Geo DRM

Rig: CME-55

Interval	Time	Rec	PID	Notes
0-5	—	—	0.0	Hand clear
5-6	0940	0.9	0.1	
6-8	0950	1.7	0.0	
8-10	1010	1.4	0.0	
10-12	1020	1.1	0.1	
12-14	1030	1.6	0.0	
14-16	1045	1.7	0.0	
16-18	1055	1.5	0.0	
18-20	1110	1.6	0.0	
20-22	1120	1.1	0.0	
22-24	1130	0.7	0.0	
24-26	1320	1.4	0.0	
26-28	1335	1.5	0.0	
28-30	1355	1.0	0.0	
30-32	1420	1.0	0.0	
32-34	1445	0.8	0.0	Spoon ref @ 33.0
34-36	1510	1.1	0.0	
36-38	1540 0820	1.2	0.0	
38-40	0830	1.2	0.0	7-13-22
40-42	0850	1.7	0.0	
42-44	0900	1.6	0.0	

44-46	0925	1.0	0.0
46-48	0945	0.8	0.0
48-50	1010	0.8	0.0
50-52	1035	0.9	0.0
52-54	1100	1.0	0.0

0.0-0.9 - 10YR 3/3 Dark Brown SILT some med. SAND, little fine sub-ang Gravel, moist, med. firm, NP. (some Organics)

0.9-3.7 - 10YR 3/3 Dark Brown SILT and med. SAND, little fine subang Gravel, little Organics, moist, med. firm, NP.

3.7-5.0 - 10YR 4/4 Dark Yellowish Brown SILT some med. Sand, trace Organics moist, med. firm, NP

5.0-6.0 - 10YR 4/4 Dark Yellowish Brown SILT, little Sand, trace Organics (roots), trace Clay, wet, soft, NP.

6.0-6.2 - SAA

6.2-7.1 - 10YR 4/3 Brown SILT, some fine Sand, little Clay, wet, soft, NP.

7.1-8.0 - 10YR 4/3 to 4/2 Dark Grayish Brown CLAY some Silt, trace fine Sand, moist, soft, moderate plasticity.

Rite in the Rain

8.0-8.1 - SAA

8.1-8.8 - 10YR 4/4 Dark Yellowish Brown SILT, some to little fine Sand, little Clay, moist, soft NP.

8.8-10.0 - 5YR 4/2 Dark Reddish Gray CLAY, some Silt little fine Sand, soft, moist to wet, Slightly Plastic

10.0-12.0 - SAA

12.0-12.2 - SAA

12.2-13.6 - 5YR 4/2 Weak Red fine Sand, some Silt, little Clay, wet, med. firm, NP.

13.6-14.0 - 5YR 4/1 Dark Reddish Gray SILT, some to little Clay, little fine Sand, wet, med firm to soft SP.

14.0-14.2 - SAA

14.2-16.0 - 5YR 4/2 Dark Reddish Gray med. SAND, little Silt, wet, med. firm, NP.

16.0-16.4 - SAA

16.4-18.0 - 5YR 4/1 Dark Gray fine SAND, little Silt, trace Clay, wet, med. firm, NP.

18.0-18.9 - SAA

18.9-19.0 CLAY layer, soft, wet, Plastic

19.0-20.0 - 5YR 3/1 Very Dark Gray med. SAND, some to little Silt, little fine sub-ang to sub-round Gravel, trace Clay, wet, med. firm, NP.

20.0-20.2 - SAA

20.2-22.0 - 5YR 3/2 Dark Reddish Brown fine to med. SAND, some Silt, little fine sub-ang to sub-round Gravel, moist becoming dry, Stiff, NP.

22.0-24.0 - SAA

24.0-26.0 - SAA

26.0-28.0 - SAA Trace med. sub round to round Gravel,

28.0-30.0 - SAA some to little Silt.

30.0-32.0 - SAA

32.0-34.0 - 5YR 3/2 Dark Reddish Brown med. SAND, little Silt, little to trace fine sub-ang to sub-round Gravel, dry to moist SAA to firm, NP.

34.0-34.2 - SAA

Rite in the Rain

34.2-36.0- 5YR 4/1 Dark Grey fine SAND, little Silt, moist, firm NP.
36.0-38.0 - SAA
38.0-39.0- SAA
39.0-40.0 - 7.5YR 4/2 Brown fine SAND, trace Silt, wet, med. firm NP.
40.0 -40.7 -SAA
40.7-42.0- 5YR 4/2 Dark Reddish Gray fine to med. SAND little Silt, little to trace fine sub-round to sub-ang Gravel, wet, med. firm NP.
42.0-42.2-SAA
42.2-44.0- 5YR 3/2 Dark Reddish Brown med. to coarse SAND some sub-round Gravel little Silt wet to moist, med. firm, NP.
44.0-44.3-SAA
44.3-46.0- 5YR 2.5/2 Dark Reddish med. SAND and SILT some fine sub-ang to sub-round Gravel dry, firm, NP.
* little weathered Bedrock fragments

46.0-48.0- 5YR 4/3 Reddish Brown fine SAND, some Silt, little fine sub-ang to sub-round Gravel, dry, Stiff, NP.
48.0-48.4 - SAA
48.4-50.0 - 5YR 3/3 Dark Reddish Brown fine SAND some Silt, little fine sub-ang Gravel, dry, stiff, NP.
* 5YR 7/1 and GLEY 1 4/1 Dark Greyish Gray Weathered Bedrock and Silt layers @ 48.5 and 48.65
50.0-52.0- 5YR 3/3 Dark Reddish Brown fine SAND, some Silt, trace fine sub-ang Gravel, dry, stiff, NP.
* Dark Greenish Gray weathered Rock @ 50.5
52.0-54.0 -SAA

Rite in the Rain

7-13-22 Northern Circuits

0740 Arcadis + PW on site
0745 Tailgate safety
0800 PW warming up rig
0915 Resume drilling @ SB-56
0930 Augers advancing slowly through deep fill
1115 PW changing out rig part
1205 Auger refusal @ 52
Spoon refusal @ 53
1210 Lunch
1245 Arcadis bailing SB-56D for sample
1325 Arcadis collecting SB-56D
1330 PW pulling temp well and Grouting boring
1560 PW topping off SB-53, 54, 55 with grout

7-14-22 Northern Circuits

0730 Arcadis + PW on site
0740 Tailgate safety meeting
0755 PW docking augers
0830 Waiting for Precision Overhead door to move trucks
0845 PW setting up Drill rig + well materials
0915 Begin drilling
1045 PW reach depth of ~24'
1055 Inner rods unable to come out of auger, PW working to remove inner rods
1130 Inner rods removed, PW need to redrill last 5'
1200 Cannot get well down through running sand in augers
1280 Lunch
1205 PW continue well install.
1350 PW set well and begin Sand pack

175 - 14-24 Screen

Rite in the Rain

7-15-22 Northern Circuits

-0740 Arcadis + PW on site
0745 Tailgate safety
0800 Resume MW-17S installation
0940 PW finish Sandpack & Bentonite seal of MW-17S
0950 PW begin mixing Grout for MW-17S
1030 PW finish grouting on pulling augers
Picking up lost area
1050 PW Decomm augers
1130 Hand clearing new location for MW-16
1200 Lunch
1230 Finish hand clearing MW-16
1245 Setting up rig on MW-16
1255 Begin drilling MW-16
1350 Pause drilling for day, packing up rig for weekend, moving mats
1410 off site.

7-18-22 Northern Circuits

0740 Arcadis on site
0745 Tailgate safety meeting
0800 PW setting up / moving up rig
0820 PW resume drilling @ 16S
0850 PW begin installing + sandpacking well @ 17' bgs
0945 PW finish grouting 16S
0950 PW decomming augers
1015 PW finish decomming augers
1025 PW begin drilling @ 16D
1200 Lunch
1240 Resume Drilling
1335 Auger refusal @ 30'
1340 Call Mark Flushe to confirm well depth
1440 PW finish setting, sandpack, bentonite well.
1445 PW mixing grout for MW-16

16D - 27-30' screen
16S - 7-17' screen

Rite in the Rain

MW-16D

Daily Co: PW

Driller:

Rig: CME-55

Geo: DRM

Interval	Time	Rec	PID	Notes
0-5	—	NA	0.0	Hand clear
5-16	—	NA	0.0	Blind Drill
16-18	1050	1.2	0.0	
18-20	1105	0.5	0.0	
20-22	1115	0.6	0.0	
22-24	1125	6.0	0.0	No Recovery 50/1
24-26	1140	0.2	0.0	50/2
26-28	1255	0.0	0.0	No Recovery 50/1
28-30	1315	0.0	NA	
30-32	1335	0.1	0.0	

16.0-18.0 - 5YR 4/3 Reddish Brown med. SAND, some Silt, little fine subang Gravel, Silt, moist to dry, NP.

18.0-20.0 - SAA Dry

20.0-22.0 - 5YR 3/1 Very Dark Gray sub-ang to sub-round Gravel, little fine Sand, little Silt, moist to wet, loose, NP.

22.0-24.0 - No Recovery

24.0-24.2 - 10YR 4/2 Dark Reddish Gray fine SAND, some Silt, little fine subang Gravel, moist to dry, Silt NP

26.0-28.0 - No Recovery

28.0-30.0 - No Recovery

30.0-30.1 - "

Rite in the Rain

7-19-22 Northern Circuits

0740 Arcadis + PV on site
0743 Tailgate safety meeting
0800 PV Deconning augers
0825 Arcadis + PV checking collars locations and call Mark Flusche to confirm.
0850 PV moving drill rig + EQ to Collars well location
0900 PV setting up drill rig on MW-190 Location
0910 PV begin drilling
1140 Lunch
1220 Resume drilling
1305 PV beginsetting well @40' w/ 4' screen
1350 PV finish sandpack + Bentonite
1400 PV Grouting + pulling augers MW-190
1500 PV finish grouting
Picking up rig

7-19-22

MW-190 (formerly SB-36)
Drilling Co PV
Driller R. Nakutka
Rig CME-55

Geo DRM

Interval	Time	Rec	PID	Notes
0-5	—	—	0.0	Hand clear
5-32	~0930	NA	NA	Blind Drill
32-34	1050	1.2	0.0	
34-36	1115	0.9	0.0	

32.0-34.0 - 5YR 3/3 Dark Reddish Brown med. SAND some to little Silt little fine subang Gravel, stiff, dry, NP.

34.0-36.0 - SAA

36-38	1125	0.9	0.0
38-40	1245	0.7	0.0
~~40-42~~			
~~42-44~~			
~~44-46~~			

Rite in the Rain

36-36.4-SAA

36.4-38.0- GLEY 1 5/1 Greenish Gray weathered BEDROCK, little Silt, fine fine Sand, moist Piring ↓

38.0-40.0- SAA

* White Quartzyte layer within weathered Rock
* Becoming lighter Gray GLEY 5/1 with depth

7-20-22 Northern Circuits

0748 Arrive on site
0745 Tailgate meeting
0800 PW Decomm dryers
PW Hand Clean SB-53 well locations + new Bailer location for 195 and 185
0940 PW begin drilling 195
1055 PW reach 29' installing MW-195 19-29 Screen.
1115 PW Sand packing screen
1200 Lunch
1230 PW Continue Sand pack
~~1350~~ PW finish pulling augers + grouting
1350 well
1400 PW Cleaning up rig + packing tools

Rite in the Rain

7-21-22 Northern Circuits

0730 Arcadis + PW on site
0740 Tailgate safety meeting
0750 PW decon ing augers
0805 PW finish auger decon
0810 PW installing flush mounts @ ~~MW~~ 19S + D
0840 PW finish 19S+D Flush mount
0850 PW setting rig up on MW-20D
0900 PW beginning drilling MW-20D
1125 PW auger refusal @ 38' Screen ~~35-38~~ 34.5-37.5
1145 Lunch
1220 PW setting well and sand packing
1300 PW finish sand pack + Bentonite seal
1305 PW mixing grout + begin grouting well
1350 PW finish pulling augers + grouting
1420 PW Decon ing augers
1445 PW setting up on MW-20S
1450 PW replacing auger teeth
1455 PW Drilling MW-20S
1800 PW reach 20' packing up rig
1805 OFF site

7-22-22 Northern Circuits

0700 Arcadis on site
0705 Tailgate meeting
0715 Resume well installation of MW-20S - Screen 9.5-19.5'
0720 PW Sand packing well
0745 PW Grouting + Pulling augers MW-20S
0820 PW finish
0825 PW setting up on 18S 11-21'
0840 PW begin drilling 18S
0940 PW setting well + sand packing
1015 PW Grouting well + pulling augers
1040 PW cleaning up work area
1100 PW Decoding augers
1135 PW installing flush mounts.

Rite in the Rain

Appendix C

Monitoring Well Construction Logs

Date Start/Finish:	7-18-22	**Northing:**	NA	**Well/Boring ID:**	**MW-16S**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	17'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0	1	NA	NA	0.0		10YR 3/3 Dark Brown SILT, some Organics (grass, roots), little fine Sand, moist, medium firm, NP	Steel Cover; Locking J-plug cap; Concrete Pad
						7.5YR 4/4 Brown fine to medium SAND and SILT, little fine to medium sub-angular Gravel, moist, medium firm, NP	Grout (0.5-3' bgs)
						10YR 4/3 Brown SILT, some medium Sand, little fine sub-angular Gravel, soft to medium firm, wet, NP	Bentonite (23-25' bgs)
5 / -5						SAA	2" Diameter Sch. 40 PVC Riser (0-27' bgs)
	2	5-8'	3.4'	0.0		5YR 4/4 Reddish Brown medium SAND, some to little Silt, wet, medium firm, NP	
						10YR 4/4 Dark Yellowish Brown SILT, some fine Sand, little fine sub-angular Gravel, moist, medium firm, NP.	
						5YR 4/4 Reddish Brown fine SAND, some Silt, little fine sub-angular to sub-round Gravel, firm, NP	
						SAA	
10 / -10	3	8-12'	3.9'	0.0		5YR 4/3 Reddish Brown fine SAND and SILT, little fine sub-round to sub-angular Gravel, moist, medium firm, NP.	#01 Sand Pack (25-30' bgs); 2" Diameter 0.10' slotted Sch. 40 PCV Screen (7-17' bgs)
						5YR 4/4 Reddish Brown medium to coarse SAND, some Silt, trace fine sub-angular Gravel, wet, loose, NP.	
						5YR 4/2 Dark reddish Gray fine to medium SAND, little Silt, little fine sub-angular Gravel, trace medium sub-round Gravel, moist, medium firm, NP	
						5YR 4/2 Dark reddish Gray fine to medium SAND, some Silt, little fine sub-angular to sub-round, Gravel, moist, soft to medium firm, NP	
15 / -15	4	12-16'	2.7'	0.0			

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-16S

Borehole Depth: 17'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
						5YR 4/3 Reddish Brown medium SAND, some Silt, little fine sub-angular Gravel, stiff, moist to dry, NP.	

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Date Start/Finish:	7-18-22	**Northing:**	NA	**Well/Boring ID:**	**MW-16D**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	30'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	NA	NA	0.0		10YR 3/3 Dark Brown SILT, some Organics (grass, roots), little fine Sand, moist, medium firm, NP	Steel Cover; Locking J-plug cap; Concrete Pad
						7.5YR 4/4 Brown fine to medium SAND and SILT, little fine to medium sub-angular Gravel, moist, medium firm, NP	
-5						10YR 4/3 Brown SILT, some medium Sand, little fine sub-angular Gravel, soft to medium firm, wet, NP	
	2	5-8'	3.4'	0.0		SAA	
						5YR 4/4 Reddish Brown medium SAND, some to little Silt, wet, medium firm, NP	
						10YR 4/4 Dark Yellowish Brown SILT, some fine Sand, little fine sub-angular Gravel, moist, medium firm, NP.	
						5YR 4/4 Reddish Brown fine SAND, some Silt, little fine sub-angular to sub-round Gravel, firm, NP	
						SAA	Grout (1-23' bgs)
						5YR 4/3 Reddish Brown fine SAND and SILT, little fine sub-round to sub-angular Gravel, moist, medium firm, NP.	2" Diameter Sch. 40 PVC Riser (0-27' bgs)
-10	3	8-12'	3.9'	0.0		5YR 4/4 Reddish Brown medium to coarse SAND, some Silt, trace fine sub-angular Gravel, wet, loose, NP.	
						5YR 4/2 Dark reddish Gray fine to medium SAND, little Silt, little fine sub-angular Gravel, trace medium sub-round Gravel, moist, medium firm, NP	
						5YR 4/2 Dark reddish Gray fine to medium SAND, some Silt, little fine sub-angular to sub-round, Gravel, moist, soft to medium firm, NP	
-15	4	12-16'	2.7'	0.0			

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

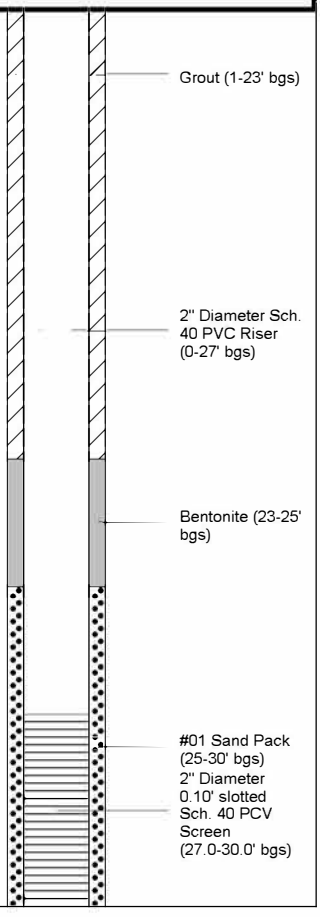
Well/Boring ID: MW-16D

Borehole Depth: 30'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
	5	16-18'	1.2'	0.0		5YR 4/3 Reddish Brown medium SAND, some Silt, little fine sub-angular Gravel, stiff, moist to dry, NP.
	6	18-20'	0.5'	0.0		SAA, Dry.
20 -20	7	20-22'	0.6'	0.0		5YR 3/1 Very Dark Gray sub-angular to sub-round Gravel, little fine Sand, little Silt, moist to wet, loose, NP.
	8	22-24'	0.0'	0.0		No Recovery
25 -25	9	24'-26'	0.2'	0.0		10YR 4/2 Dark Reddish Gray fine SAND, some Silt, little fine sub-angular Gravel, moist to dry, stiff, NP. No Recovery. Assumed [Till] very hard. Drilling continued until auger and split-spoon refusal.
	10	26-28'	0.0'	0.0		
	11	28-30'	0.0'	0.0		
30 -30						



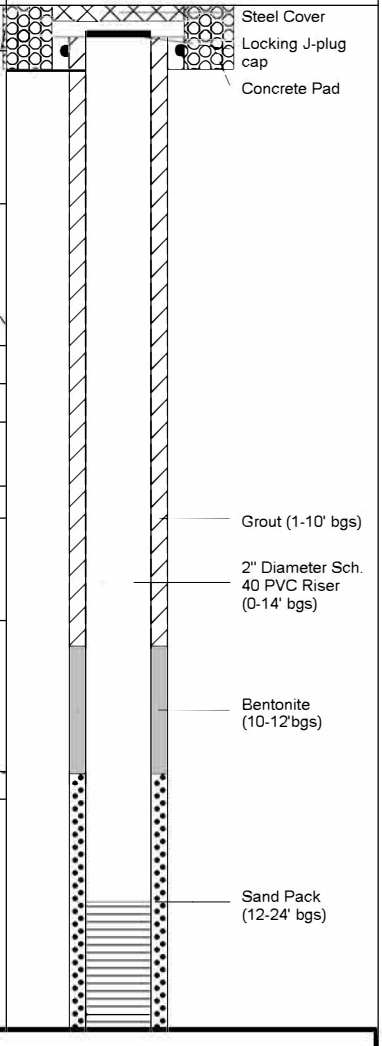
Well/Boring Construction

Remarks: Boring hand cleared to 5' bgs.

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Date Start/Finish:	7-14-22	**Northing:**	NA	**Well/Boring ID:**	**MW-17S**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	24'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 0	NA	NA	NA	0.0		10YR 3/3 Dark Brown SILT, some Organics (grass, roots), little fine Sand, moist, medium firm, NP
						10YR 4/3 Brown Silt, some fine Sand, little fine sub-angular Gravel, moist, medium firm, NP
						10YR 4/3 Brown fine to medium SAND, some Silt, trace fine sub-angular Gravel, moist to wet, medium firm, NP
5 / -5	1	5-8'	2.8'	0.0		SAA
						10YR 4/4 Dark Yellowish Brown medium SAND, some Silt, wet, medium firm, NP
						10YR 4/4 Dark Yellowish Brown SILT, little fine Sand, trace Clay, moist, soft, NP
						10YR 3 /4 Dark Yellowish Brown fine to medium SAND, little Silt, moist, medium firm, NP
						7.5YR 4/2 Brown fine SAND, some Silt, wet, medium firm, NP
10 / -10	2	8-12'	3.4'	NA		SAA
						5YR 3/3 Dark Reddish Brown medium SAND, little Silt, wet, medium firm, NP
15 / -15	3	12-16'	2.4'	0.0		SAA
						2.5YR 4/3 Reddish Brown fine SAND and SILT, trace fine sub-round Gravel, wet to moist, NP



Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-17S

Borehole Depth: 24'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	4	16-20'	2.2'	0.0		SAA	Sand Pack (12-24' bgs) 2" Diameter 0.10' slotted Sch. 40 PCV Screen (14-24' bgs)
20 -20						2.5YR 3/3 Dark Reddish Brown SILT, little fine Sand, trace fine sub-angular Gravel, wet, soft, NP	
	5	20-24'	3.1'	0.0		2.5YR 3.2 Dusky Red fine sub-round GRAVEL, little medium Sand, trace Silt, wet, loose, NP	
						2.5YR 3.2 Dusky Red fine SAND, some Silt,m little fine sub-round to sub-angular Gravel, dry stiff, NP	

Remarks: Boring hand cleared to 5' bgs.

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Date Start/Finish:	7-22-22	**Northing:**	NA	**Well/Boring ID:**	**MW-18S**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	21'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0	NA	NA	NA	0.0		ASPHALT 10YR 4/2 Dark Grayish Brown medium SAND, some Silt, little fine sub-angular Gravel, moist, medium firm, NP.	Steel Cover Locking J-plug cap Concrete Pad
5 / -5	1	5-8'	3.6	0.0		5YR 4/4 Reddish Brown SILT, little fine Sand, wet, soft, NP. 10YR 4/3 Brown medium SAND, little Silt, wet, soft to medium firm, NP.	Grout (1-7' bgs) 2" Diameter Sch. 40 PVC Riser (0-11' bgs)
10 / -10	2	8-12'	3.3	0.0		SAA 10YR 3/2 Very Dark Grayish Brown fine SAND, some to little Silt, trace fine sub-angular to sub-round Gravel, wet to moist, NP.	Bentonite (7-9' bgs)
15 / -15	3	12-16'	3.3	0.0		SAA 10YR 3/2 Very Dark Grayish Brown fine SAND, some to little Silt, trace fine sub-angular to sub-round Gravel, wet to moist, NP. 7.5YR 4/2 Brown medium SAND, little Silt, trace fine sub-round Gravel, moist, NP 5YR 4/3 Reddish Brown fine to medium SAND, some Silt, little to trace fine sub-round Gravel, wet, medium firm, NP SAA	2" Diameter 0.10' slotted Sch. 40 PCV Screen (11-21' bgs) Sand Pack (9-21' bgs)

ARCADIS Design & Consultancy for natural and built assets

Remarks: Boring hand cleared to 5' bgs.

Client: NYS DEC

Well/Boring ID: MW-18S

Borehole Depth: 21'

Site Location:

8 Adler Dr. East Syrcause, NY

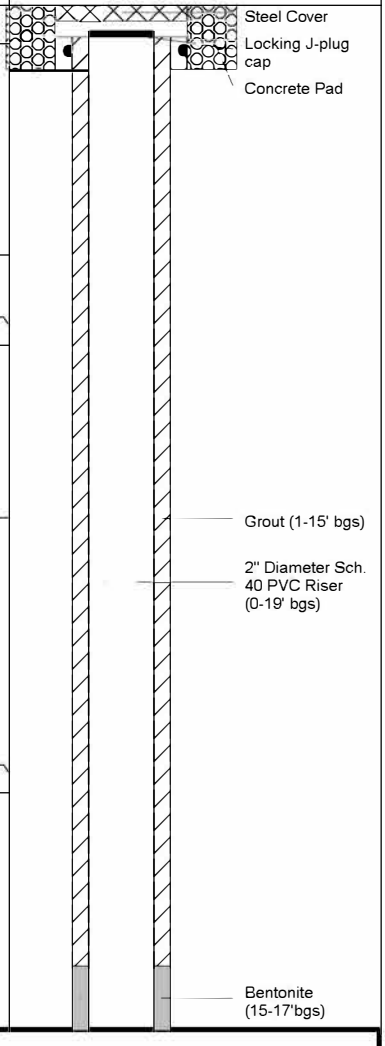
DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	4	16-20'	3.0	0.0		5YR 4/3 Reddish Brown medium SAND, some Silt, tracee fine sub-round Gravel, wet, medium firm, NP	2" Diameter 0.10' slotted Sch. 40 PCV Screen (11-21' bgs) Sand Pack (9-21' bgs)
						5YR 3/3 Dark Reddish Brown SILT and fine SAND, some fine sub-round Gravel, dry stiff, NP.	
						10YR 5/1 Gray angular crushed ROCK/GRAVEL, little fine SAND, dry, firm, NP	
						5YR 4/1 Dark Gray weathered BOULDER, little fine Sand, trace Silt, moist, firm, NP	
20 -20						SAA	
						5YR 3.3 Dark Reddish Brown fine SAND and SILT, little fine sub-angular to sub-round Gravel, moist, stiff, NP	

ARCADIS Design & Consultancy for natural and built assets

Remarks: Boring hand cleared to 5' bgs.

Date Start/Finish:	7-20-22	**Northing:**	NA	**Well/Boring ID:**	**MW-19S**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	29'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 0	1	NA	NA	0.0		ASPHALT
						7.5YR 4/2 Brown medium SAND, and medium sub-angular to angular GRAVEL, little Silt, loose, wet, NP
						5YR 4/3 Reddish Brown medium SAND, some Silt, little fine to medium sub-angular Gravel, wet, soft, NP
5 / -5						SAA
	2	5-8'	0.2	0.0		No Recovery
						No Recovery
10 / -10	3	8-12'	0.0	NA		
						5YR 5/2 Reddish Gray medium SAND, some Silt, wet, medium firm, NP
						5YR 4/2 Dark Reddish Gray fine SAND, little Silt, trace fine sub-angular to sub-round Gravel, firm, moist, NP
15 / -15	4	12-16'	2.5'	0.0		



Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-19S

Borehole Depth: 29'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	5	16-20'	2.9'	0.0		5YR 4/2 Dark Reddish Gray finee SAND, some Silt, little to trace fine sub-round Gravel, tracee layer of medium angular Gravel @ 16.9-17	Bentonite (15-17'bgs)
20 -20	6	20-24'	2.9'	0.0		2.5 YR 4/2 Dark Reddish Gray fine SAND, some Silt, trace finee sub-round Gravel, moist, firm, NP ***medium SAND layers (wet) @ 21.5,22,22.7	Sand Pack (17-29' bgs) 2" Diameter 0.10' slotted Sch. 40 PCV Screen (19-29' bgs)
25 -25	7	24-28'	4.0'	0.0		SAA	
						SAA	

ARCADIS Design & Consultancy for natural and built assets

Remarks: Boring hand cleared to 5' bgs.

Date Start/Finish:	7-19-22	**Northing:**	NA	**Well/Boring ID:**	**MW-19D**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	40'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0	1	NA	NA	0.0		ASPHALT	Steel Cover; Locking J-plug cap; Concrete Pad
						7.5YR 4/2 Brown medium SAND, and medium sub-angular to angular GRAVEL, little Silt, loose, wet, NP	
						5YR 4/3 Reddish Brown medium SAND, some Silt, little fine to medium sub-angular Gravel, wet, soft, NP	
5 / -5	2	5-8'	0.2	0.0		SAA No Recovery	
						No Recovery	Grout (1-32' bgs); 2" Diameter Sch. 40 PVC Riser (0-36' bgs)
10 / -10	3	8-12'	0.0	NA		5YR 5/2 Reddish Gray medium SAND, some Silt, wet, medium firm, NP	
						5YR 4/2 Dark Reddish Gray fine SAND, little Silt, trace fine sub-angular to sub-round Gravel, firm, moist, NP	
15 / -15	4	12-16'	2.5'	0.0			

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-19D

Borehole Depth: 40'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	5	16-20'	2.9'	0.0		5YR 4/2 Dark Reddish Gray finee SAND, some Silt, little to trace fine sub-round Gravel, tracee layer of medium angular Gravel @ 16.9-17	Grout (1-32' bgs)
20 -20	6	20-24'	2.9'	0.0		2.5 YR 4/2 Dark Reddish Gray fine SAND, some Silt, trace finee sub-round Gravel, moist, firm, NP ***medium SAND layers (wet) @ 21.5,22,22.7	2" Diameter Sch. 40 PVC Riser (0-36' bgs)
25 -25	7	24-28'	4.0'	0.0		SAA	
						SAA	
30 -30	8	28-32	3.5'	0.0		2.5YR 3/3 Dark Reddish Brown fine SAND, some Silt, little fine to medium sub-angular Gravel, dry, very stiff, NP	
	9	32-34'	1.2'	0.0		5YR 3/3 Dark Reddish Brown medium SAND, some to little Silt, little fine subangular Gravel, stiff, dry, NP.	Bentonite (32-34' bgs)
35 -35	10	34-36'	0.9'	0.0		SAA	

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-19D

Borehole Depth: 40'

Site Location:

8 Adler Dr. East Syrcause, NY

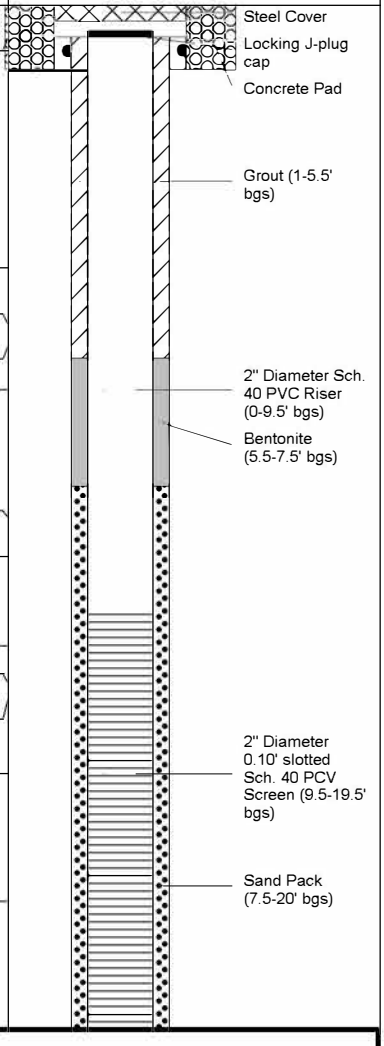
DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	11	36-38'	0.9'	0.0		GLEY 1 5/1 Greenish Gray Weathered BEDROCK, little Silt, trace fine Sand, moist firm, NP.	#01 Sand Pack (34-40' bgs) 2" Diameter 0.10' slotted Sch. 40 PCV Screen (36-40' bgs)
	12	38-40'	0.7'	0.0		SAA. *** Weathered BEDROCK becoming more competent with depth.	
40 40							

ARCADIS Design & Consultancy for natural and built assets

Remarks: Boring hand cleared to 5' bgs.

Date Start/Finish:	7-22-22	**Northing:**	NA	**Well/Boring ID:**	**MW-20S**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	20'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 0		NA	NA	0.0		10YR 3/3 Brown SILT, some Organics (grass, roots), little fine Sand, moist, medium firm, NP.
						10YR 3/3 Brown SILT and fine to medium SAND, little to trace fine sub-angular Gravel, trace Organics, moist, medium firm, NP.
						7.5YR 4/4 Brown SILT, some medium Sand, little fine sub-angular Gravel, moist, medium firm, NP.
5 / -5	1	5-6'	0.4'	0.0		10YR 3/3 Dark Brown SILT and fine to medium SAND, trace fine sub-angular Gravel, moist to wet, soft, NP.
						SAA
	2	6-8'	1.3'	0.0		10YR 4/2 Dark Grayish Brown medium SAND, little Silt, wet, soft to medium firm, NP.
						10YR 4/3 Brown SILT, some fine to medium Sand, trace fine sub-angular Gravel, wet, medium firm, NP.
	3	8-10'	1.4'	0.0		10YR 4/3 Brown medium SAND, some Silt, wet, medium firm, NP.
10 / -10						10YR 4/3 Brown fine to medium SAND and SILT, medium firm, NP.
	4	10-12'	1.3'	0.0		10YR 5/1 Gray fine SAND, some Silt, trace fine sub-angular Gravel, wet to moist, NP.
						5YR 4/3 Reddish Brown fine to medium SAND, some Silt, little to trace fine sub-angular Gravel, dry, stiff, NP.
	5	12-14'	0.9'	0.0		SAA
						5YR 4/3 Reddish Brown fine to medium SAND, some Silt, little fine sub-round to sub-angular Gravel, moist to dry, stiff, NP.
15 / -15	6	14-16'	1.4'	0.0		



Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-20S

Borehole Depth: 20'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	16-18'	1.2'	0.0		SAA	2" Diameter 0.10' slotted Sch. 40 PCV Screen (9.5-19.5' bgs) Sand Pack (7.5-20' bgs)
	8	18-20'	1.4'	0.0		SAA, moist to dry. Trace medium sub-round to sub-angular Gravel @ 18.4'.	
20 20							

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Date Start/Finish:	7-21-22	**Northing:**	NA	**Well/Boring ID:**	**MW-20D**
Drilling Company:	Parratt-Wolff	**Easting:**	NA	**Client:**	NYS DEC
Driller's Name:	R. Novatka	**Borehole Depth:**	38'	**Location:**	8 Adler Dr. East Syrcause, NY
Drilling Method:	HSA	**Casing Elevation**	NA		
Sampling Method:	2' Splitt Spoon	**Surface Elevation:**	NA		
Rig Type:	CME-55	**Descriptions By:**	D. Meandro		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 / 0		NA	NA	0.0		10YR 3/3 Brown SILT, some Organics (grass, roots), little fine Sand, moist, medium firm, NP.	Steel Cover; Locking J-plug cap; Concrete Pad
						10YR 3/3 Brown SILT and fine to medium SAND, little to trace fine sub-angular Gravel, trace Organics, moist, medium firm, NP.	
						7.5YR 4/4 Brown SILT, some medium Sand, little fine sub-angular Gravel, moist, medium firm, NP.	
5 / -5	1	5-6'	0.4'	0.0		10YR 3/3 Dark Brown SILT and fine to medium SAND, trace fine sub-angular Gravel, moist to wet, soft, NP. SAA	
	2	6-8'	1.3'	0.0		10YR 4/2 Dark Grayish Brown medium SAND, little Silt, wet, soft to medium firm, NP.	
						10YR 4/3 Brown SILT, some fine to medium Sand, trace fine sub-angular Gravel, wet, medium firm, NP.	Grout (1-30.5' bgs)
	3	8-10'	1.4'	0.0		10YR 4/3 Brown medium SAND, some Silt, wet, medium firm, NP.	2" Diameter Sch. 40 PVC Riser (0-34.5' bgs)
10 / -10						10YR 4/3 Brown fine to medium SAND and SILT, medium firm, NP.	
	4	10-12'	1.3'	0.0		10YR 5/1 Gray fine SAND, some Silt, trace fine sub-angular Gravel, wet to moist, NP. 5YR 4/3 Reddish Brown fine to medium SAND, some Silt, little to trace fine sub-angular Gravel, dry, stiff, NP.	
	5	12-14'	0.9'	0.0		SAA	
15 / -15	6	14-16'	1.4'	0.0		5YR 4/3 Reddish Brown fine to medium SAND, some Silt, little fine sub-round to sub-angular Gravel, moist to dry, stiff, NP.	

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-20D

Borehole Depth: 38'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	7	16-18'	1.2'	0.0		SAA	Grout (1-30.5' bgs)
	8	18-20'	1.4'	0.0		SAA, moist to dry. Trace medium sub-round to sub-angular Gravel @ 18.4'.	
20 -20						5YR 4/3 Reddish Brown medium SAND and SILT, trace fine sub-round Gravel, moist, stiff, NP.	
	9	20-22'	1.3'	0.0		5YR 4/3 Reddish Brown medium SAND, some Silt, little fine sub-angular to sub-round Gravel, moist to dry, very stiff, NP.	2" Diameter Sch. 40 PVC Riser (0-34.5' bgs)
	10	22-24'	1.5'	0.0		5YR 4/2 Dark Reddish Gray fine to medium SAND, some Silt, little fine to medium sub-angular to sub-round Gravel, dry to moist, firm to stiff, NP.	
						5YR 3/1 Very Dark Gray sub-angular Gravel, little medium Sand, little Silt, moist to wet, firm, NP.	
						5YR 4/2 Dark Reddish Gray fine to medium SAND, some Silt, little fine sub-angular Gravel, moist to dry, firm, NP.	
25 -25	11	24-26'	1.1'	0.0		SAA	
	12	26-28'	1.5'	0.0		5YR 4/3 Reddish Brown fine SAND, little Silt, trace fine sub-angular Gravel, moist, medium firm, NP.	
						5YR 4/2 Dark Reddish Gray fine to medium SAND, some to little Silt, little fine to medium sub-round to sub-angular Gravel, moist to semi dry, stiff, NP.	
	13	28-30'	1.1'	0.0		5YR 4/2 Dark Reddish Gray fine SAND and SILT, little to trace fine sub-angular to sub-round Grael, moist, firm, NP.	
30 -30						SAA	
	14	30-32'	1.6'	0.0		5YR 4/2 Dark Reddish Gray fine to medium SAND, some Silt banding, trace very fine sub-angular Gravel, moist, medium firm, NP.	Bentonite (30.5-32.5' bgs)
						5YR 5/3 Reddish Brown medium SAND, some to little Silt, wet, soft to medium firm, NP.	
	15	32-34'	1.2'	0.0		SAA	
						5YR 4/1 Dark Gray coarse SAND and fine sub-round Gravel, little Silt, moist to wet, medium firm, NP.	
						5YR 4/3 Reddish Brown medium SAND, some Silt, little to trace fine sub-angular Gravel, firm, moist, NP.	
						SAA. some fine to medium sub-angular Gravel, stiff, moist to dry, NP.	
35 -35	16	34-36'	0.9'	0.0		Gley 2 5/1 Blusih Gray fine to medium sub-round GRAVEL and SILT, little fine Sand, moist, soft to medium firm, NP.	#01 Sand Pack (32.5-38' bgs)
						5YR 3/3 Dark Reddish Brown medium SAND, some Silt, little fine sub-round Gravel, moist to dry, firm to stiff, NP.	

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYS DEC

Well/Boring ID: MW-20D

Borehole Depth: 38'

Site Location:

8 Adler Dr. East Syrcause, NY

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	17	36-38'	0.5'	0.0		SAA 10YR 6/1 Gray Crushed BEDROCK little fine Sand, dry, stiff, NP.	2" Diameter 0.10' slotted Sch. 40 PCV Screen (34.5-37.5' bgs)

Remarks: Boring hand cleared to 5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Appendix D

Well Development Logs

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DRM
Client / Job Number: 30053689
Weather: 75° Partly Cloudy

Well ID: MW-20D
Date:
Time In: 0745 Time Out:

Well Information

Depth to Water: 6.87 (feet) (from MP)
Total Depth: 35.26 (feet) (from MP)
Length of Water Column: (feet) 28.39
Volume of Water in Well: (gal) 4.62

Well Type: (Flushmount) Stick-Up
Well Material: Stainless Steel (PVC)
Well Locked: Yes (No)
Measuring Point Marked: (Yes) No
Well Diameter: 1" (2") Other:

Purging Information

Purging Method: Bailer Peristaltic (Waterra) Other:
Tubing/Bailer Material: Steel (Polyethylene) Waterra Other:
Duration of Pumping: (min)
Average Pumping Rate: ~250 (ml/min) Water-Quality Meter Type: Horiba U-22/LaMotte 2020
Total Volume Removed: (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Peri

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	810	0820	0835	0850	0905	0915	0925	0935					
Volume Purged (gal)	2.5	5	7.5	10	12.5	15	17.5	18.5	19				
Rate (mL/min)	~250	~250	~250	~2000	~2000	~2000	~2000	350	350				
Depth to Water (ft.)	10.37	9.56	9.47	10.57	10.64	10.70	10.74	~~35.45~~	~~35.46~~				
pH	7.44	6.84	6.83	6.85	6.80	6.78	6.76	6.75	6.74				
Temp. (C)	14.11	14.35	14.25	14.14	13.87	14.40	15.03	15.01	14.98				
Conductivity (mS/cm)	2.19	2.01	2.21	2.26	2.27	2.43	2.44	2.44	2.45				
Dissolved Oxygen (mg/L)	3.58	2.20	1.53	2.79	3.08	9.18	8.67	8.64	8.36				
Turbidity (NTU)	>1100	>1000	>1000	>1000	>1000	692	421	41	24				
Notes:													

Problems / Observations

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DRM
Well ID: MW-205
Client / Job Number:
Date: 7-29-22
Weather: 90° Sunny
Time In: **Time Out:**

Well Information

Depth to Water:	(feet)	2.71	(from MP)
Total Depth:	(feet)	17.80	(from MP)
Length of Water Column:	(feet)	15.09	
Volume of Water in Well:	(gal)	2.45	

Well Type:	Flushmount		Stick-Up
Well Material:	Stainless Steel		PVC
Well Locked:	Yes		No
Measuring Point Marked:	Yes		No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other: Peri
Tubing/Bailer Material:	Steel	Polyethylene	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22/LaMotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Peri

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	2.5	5	7.5	10	11	12	13	14					
Rate (mL/min)	~250	→	→	→	350	→	→	→					
Depth to Water (ft.)	NA	→	→	→	10.98	10.47	10.11	9.74					
pH	7.07	7.21	6.76	6.83	6.79	6.74	6.72	6.71					
Temp. (C)	19.67	18.76	18.20	17.49	17.39	17.21	17.20	7.31					
Conductivity (mS/cm)	1.93	1.50	1.34	1.17	1.15	1.14	1.13	1.12					
Dissolved Oxygen (mg/L)	2.52	8.31	2.44	5.84	4.87	4.64	4.53	4.29					
Turbidity (NTU)	71000	→	→	→	604	139	71	48					
Notes:													

Problems / Observations

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DRM
Well ID: MW-19D
Client / Job Number:
Date: 7-28-22
Weather: Sunny, 80
Time In: Time Out:

Well Information

Depth to Water:	(feet)	3.64	(from MP)
Total Depth:	(feet)	~~38.85~~ 38.13	(from MP)
Length of Water Column:	(feet)	34.51	
Volume of Water in Well:	(gal)	5.62	

Well Type:	Flushmount		Stick-Up
Well Material:	Stainless Steel		PVC
Well Locked:	Yes		No
Measuring Point Marked:	Yes		No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other:
Tubing/Bailer Material:	Steel	Polyethylene	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22/LaMotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Peri

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	2.5	5	7.5	10	12.5	13.5	14.5	15.5	16.5				
Rate (mL/min)	~2500	→	→	→	→	350	→	→	→				
Depth to Water (ft.)	NA	→	→	→	→	11.64	13.97	13.42	12.99				
pH	7.21	7.06	7.07	6.99	6.94	6.93	6.92	6.92	6.92				
Temp. (C)	17.7	17.75	16.36	15.42	15.01	15.14	15.07	15.11	15.11				
Conductivity (mS/cm)	2.74	2.64	2.36	2.42	2.36	2.30	2.24	2.27	2.27				
Dissolved Oxygen (mg/L)	8.87	2.54	8.65	8.20	9.01	8.47	8.36	8.20	8.04				
Turbidity (NTU)	>1000	→	→	→	→	476	204	84	42.4				
Notes:													

Problems / Observations

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DNM
Client / Job Number:
Weather: Sunny, 80

Well ID: MW-19S
Date: 7-28-22
Time In: Time Out:

Well Information

Depth to Water:	(feet)	3.21	(from MP)
Total Depth:	(feet)	28.19	(from MP)
Length of Water Column:	(feet)	24.98	
Volume of Water in Well:	(gal)	4.07	

Well Type:		Flushmount	Stick-Up
Well Material:	Stainless Steel		PVC
Well Locked:		Yes	No
Measuring Point Marked:		Yes	No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other:
Tubing/Bailer Material:	Steel	Polyethylene	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)		Water-Quality Meter Type:	Horiba U-22/LaMotte 2020
Total Volume Removed:	(gal)		Did well go dry:	Yes / No

Per

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	2.5	5	7.5	10	12.5	13.5	15	16	17				
Rate (mL/min)	~2500	→	→	→	→	350	350	350	350				
Depth to Water (ft.)	NA	→	→	→	→	19.76	19.21	18.83	18.52				
pH	6.81	6.78	6.69	6.67	6.65	6.64	6.63	6.63	6.63				
Temp. (C)	16.73	16.40	16.27	16.15	16.04	15.99	16.04	15.92	15.87				
Conductivity (mS/cm)	1.83	1.83	1.69	1.54	1.51	1.40	1.38	1.37	1.37				
Dissolved Oxygen (mg/L)	9.46	4.67	1.69	1.64	1.61	1.59	1.58	1.58	1.57				
Turbidity (NTU)	>1000	>1000	742	491	206	140	74	51	42				
Notes:													

Problems / Observations

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DRM
Client / Job Number:
Weather: 80 Sunny

Well ID: 145
Date: 7-28/29-22
Time In: Time Out:

Well Information

Depth to Water:	3.59	(feet)	(from MP)
Total Depth:	18.58	(feet)	(from MP)
Length of Water Column:	14.99	(feet)	
Volume of Water in Well:	2.44	(gal)	

Well Type:	Flushmount	Stick-Up	
Well Material:	Stainless Steel	PVC	
Well Locked:	Yes	No	
Measuring Point Marked:	Yes	No	
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other:
Tubing/Bailer Material:	Steel	Polyethylene	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22/LaMotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Peri 729

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	1.75	3.5	5.25	7.0	8	9	10	11	12	13			
Rate (mL/min)	~1500	→	→	→	729	→	→	→	→	→			
Depth to Water (ft.)	15.72	Dry	14.98	Dry	4.29	5.31	6.46	7.38	8.32	9.21			
pH	7.04	6.92	6.87	6.84	6.90	6.93	6.94	6.95	6.95	6.98			
Temp. (C)	18.41	17.40	16.87	16.71	18.69	16.84	16.98	16.94	17.01	17.94			
Conductivity (mS/cm)	2.41	2.36	2.29	2.13	2.04	1.99	1.98	1.98	1.97	1.97			
Dissolved Oxygen (mg/L)	9.47	9.36	8.74	8.19	7.32	5.47	5.34	5.16	5.27	5.19			
Turbidity (NTU)	>1000	>1000	>1000	>1000	694	207	102	84	56	46			
Notes:													

Problems / Observations

Well pumped dry and allowed to recharge
Reduced 7.29 mL peri pump

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DMM
Client / Job Number:
Weather: Sunny

Well ID: MW-17S
Date: 7.27.22
Time In: 1016 Time Out: 1300

Well Information

Depth to Water:	1.76 (feet)	(from MP)
Total Depth:	17.51 (feet)	(from MP)
Length of Water Column:	(feet) 15.75	
Volume of Water in Well:	(gal) 2.56	

Well Type:	(Flushmount)		Stick-Up
Well Material:	Stainless Steel		(PVC)
Well Locked:	(Yes)		No
Measuring Point Marked:	(Yes)		No
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	(Waterra)	Other: Whale / Peri
Tubing/Bailer Material:	Steel	(Polyethylene)	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22/LaMotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	(No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Whale | Peri

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1030	1045	1100	1110	1125	1135	1145	1155	1215	1230	1245	1300	
Volume Purged (gal)	2.5	5	7.5	10	12	14	16	18	16.5	19	20	21	
Rate (mL/min)	~250	~250	→	→	~1000	~1000	→	→	~350	→	→	→	
Depth to Water (ft.)	NA	→	→	→	10.94	11.37	11.59	11.82	8.11	6.84	6.50	6.31	
pH	6.93	6.66	6.69	6.70	6.67	6.64	6.71	6.73	6.67	6.65	6.63	6.60	
Temp. (C)	17.12	17.19	15.49	14.18	14.54	14.47	14.68	14.81	14.92	14.87	14.99	15.02	
Conductivity (mS/cm)	1.71	1.70	1.70	1.69	1.72	1.73	1.64	1.59	1.63	1.60	1.59	1.58	
Dissolved Oxygen (mg/L)	9.16	8.21	8.47	9.13	7.21	2.16	2.09	2.06	1.83	1.79	1.72	1.64	
Turbidity (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	747	301	74	41.2	
Notes:						-118		-118	-113				

Problems / Observations

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DNM
Client / Job Number: NC 30053869
Weather: 75° Cloudy

Well ID: MW-16D
Date: 7-26-22
Time In: 1000 Time Out:

Well Information

Depth to Water: 4.47 (feet) (from MP)
Total Depth: 28.15' (feet) (from MP)
Length of Water Column: (feet) 23.68
Volume of Water in Well: (gal) 3.85

Well Type: Flushmount / Stick-Up
Well Material: Stainless Steel / PVC
Well Locked: Yes / No
Measuring Point Marked: Yes / No
Well Diameter: 1" / 2" / Other:

Purging Information

Purging Method: Bailer / Peristaltic / Waterra / Other: Water
Tubing/Bailer Material: Steel / Polyethylene / Waterra / Other:
Duration of Pumping: (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: Horiba U-22/LaMotte 2020
Total Volume Removed: (gal) Did well go dry: Yes / No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

PSI

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1005	1020	1030	1045	1100	1130	1225	1240	1250	1305	1310	1320	
Volume Purged (gal)	2.5	7.5	12.0	14.0	17	19							
Rate (mL/min)	~250	~250	~250	→	→	→	~250	~250	→	→	→	→	
Depth to Water (ft.)	15.05	24.57	23.69	23.84	23.97	24.08	24.14	23.80	23.29	22.47	22.01	21.73	
pH	6.96	6.70	6.82	6.66	6.64	6.63	6.62	6.66	6.64	6.62	6.59	6.57	
Temp. (C)	15.06	13.94	13.60	15.26	16.03	16.67	17.91	17.93	17.40	16.99	16.84	16.79	
Conductivity (mS/cm)	3.03	2.58	2.26	2.31	2.07	1.99	1.84	1.88	1.69	1.54	1.49	1.47	
Dissolved Oxygen (mg/L)	9.65	9.07	9.32	7.29	7.83	8.21	8.40	8.58	8.04	7.62	7.06	6.96	
Turbidity (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	742	201	105	48.5	
Notes: O12P			-187	-202	-174	-169	-183	-131	-114	-106	-96	-89	

Problems / Observations

HH

Site

WELL DEVELOPMENT LOG

Event

Sampling Personnel: DRJ
Client / Job Number: NC
Weather: 75° Cloudy

Well ID: MU-165
Date: 7-26-22
Time In: 0815 Time Out:

Well Information

Depth to Water:	2.68	(feet)	(from MP)
Total Depth:	16.88	(feet)	(from MP)
Length of Water Column:	14.2	(feet)	
Volume of Water in Well:	2.31	(gal)	

Well Type:	(Flushmount)		Stick-Up
Well Material:	Stainless Steel		(PVC)
Well Locked:		Yes	(No)
Measuring Point Marked:		(Yes)	No
Well Diameter:	1"	(2")	Other:

Purging Information

Manual Surge/

Purging Method:	Bailer	Peristaltic	Waterra	Other: Whaler Pump
Tubing/Bailer Material:	Steel	(Polyethylene)	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)		Water-Quality Meter Type:	Horiba U-22/LaMotte 2020
Total Volume Removed:	(gal)		Did well go dry:	(Yes) No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Peri pmp 7-27

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0625	0835	0845	0900	0915	0925	0935	1000	1030	1055			
Volume Purged (gal)	~~12800~~	7gal	9gal	11gal	12	13	14	15	16	17gal	18gal	19.5gal	
Rate (mL/min)	~2500	~2500	~2500	~2500						~200	~200	~200	
Depth to Water (ft.)	15.24	16.20	16.25	12.65	13.74	15.04	14.79	15.84	16.0	14.79	2.97	3.48	
pH		9.22	7.31	7.01	7.04	7.05	7.06	7.06	6.98	6.90	7.01	7.03	
Temp. (C)		14.51	15.32	15.64	15.64	15.76	15.92	16.55	15.84	15.17	16.20	15.64	
Conductivity (mS/cm)		2.02	1.61	1.54	1.40	1.19	1.06	0.952	1.08	1.15	1.36	1.85	
Dissolved Oxygen (mg/L)		5.67	5.64	4.45	5.47	6.02	7.39	8.46	8.59	8.77	8.94	8.76	
Turbidity (NTU)		>1000	>1000	>1000	>1000	~~>1000~~	>1000	>1000	~~>1000~~	>1000	64.8	43.9	
Notes:													

Problems / Observations

Initial DTW: 2.64' Final DTW
Initial DTB: 16.88' Final DTB

Water recharged to 4.60 before 0835 pump
Recharge/Pump dry with Waterra, good recharge

Appendix E

Groundwater Sampling Logs

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053684 Well ID MW-11S Date 4-29-22

Project Name/Location: Northern Circuits Weather 35 Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): / Casing Diameter (in.): 2 Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.21 Total Depth (ft-bmp): 21.85 Water Column/ Gallons in Well: 20.64 / 3.36

MP Elevation: / Pump Intake (ft-bmp): ~20.0 Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1240 Volumes Purged: ___

Sample Time: Label 1335 Start 1331 End 1337 Replicate/ Code No.: / Sampled by: DRM/JS

PID: 0.1 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
								1.31				
1245	5	150	2.00	0.7	7.37	0.715	9.37	[illegible]	10.3	-71.6	Clear	none
1250	10	150	2.95	0.4	7.36	0.714	8.42	0.92	10.2	-77.3		
1255	15	150	3.49	0.6	7.36	0.714	9.67	0.82	10.2	-80.2		
1300	20	150	3.84	0.8	7.36	0.714	6.55	0.78	10.4	-81.9		
1305	25	150	4.16	1.0	7.35	0.714	8.22	0.74	10.5	-82.6		
1310	30	150	4.34	1.2	7.35	0.715	6.81	0.72	10.5	-84.2		
1315	35	150	4.43	1.4	7.35	0.716	4.55	0.70	10.6	-85.2		
1320	40	150	4.62	1.6	7.35	0.719	5.29	0.68	10.7	-86.2		
1325	45	150	4.69	1.8	7.34	0.726	4.58	0.66	10.6	-86.6		
1330	50	150	4.70	2.0	7.34	0.722	4.84	0.67	10.7	-87.0		

Constituents Sampled	Container	Number	Preservative
6760	40ml VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: (Flush Mount) / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053669 Well ID MW-155 Date 4-20-22

Project Name/Location: Nothern Circuits Weather 50 Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): / Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 0.95 Total Depth (ft-bmp): 25.68 Water Column/ Gallons in Well: 24.73 / 4.03

MP Elevation: ~ Pump Intake (ft-bmp): ~24.50 Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1226 Volumes Purged: ~

Sample Time: Label 1325 Start 1321 End 1330 Replicate/ Code No.: / Sampled by: DRM

PID: 0.1 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1230	4	150	1.90	0.7	7.18	0.755	20.73	1.27	10.5	116.6	Clear	None
1235	9	150	2.08	0.4	7.16	0.756	16.45	1.04	10.6	71.3		
1240	14	150	2.09	0.6	7.14	0.763	20.72	0.93	11.0	9.3		
1245	19	156	2.08	0.8	7.14	0.757	17.01	0.89	10.7	-15.5		
1250	24	150	2.08	1.0	7.13	0.759	19.77	0.85	10.8	-24.9		
1255	29	150	2.11	1.2	7.13	0.758	18.31	0.83	10.9	-32.4		
1300	34	150	2.38	1.4	7.13	0.758	18.60	0.80	10.9	-37.9		
1305	39	150	2.41	1.6	7.12	0.758	19.23	0.79	11.0	-41.3		
1310	44	150	2.43	1.8	7.12	0.759	17.98	0.78	11.0	-43.1		
1315	49	150	2.49	2.0	7.12	0.759	18.81	0.77	11.1	-46.0		
1320	54	150	2.50	2.2	7.12	0.760	18.52	0.77	11.1	-48.5	↓	↓

Constituents Sampled	Container	Number	Preservative
6260	40mL VOA	3	HCl
6270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: ~~Flush Mount~~ / Stick Up Key Number To Well: ___

ARCADIS
Groundwater Sampling Form

Project No. 30053689 Well ID MW-75 Date 4-29-22

Project Name/Location: Northern Circuits Weather 50° Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): / Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.83 Total Depth (ft-bmp): 22.44 Water Column/ Gallons in Well: 20.61 / 3.35

MP Elevation: / Pump Intake (ft-bmp): ~21.5' Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1105 Volumes Purged: / Sampled by: ORM

Sample Time: Label 1210 Start 1206 End 1215 Replicate/ Code No.: /

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1110	5	150	3.73	0.2	7.00	1.131	14.78	1.52	11.3	209.8	Clear	None
1115	10	150	5.60	0.4	6.93	1.136	17.82	1.02	11.4	180.8		
1120	15	150	7.03	0.6	6.91	1.138	14.98	0.98	11.4	149.2		
1125	20	150	8.29	0.8	6.90	1.144	16.70	0.86	11.5	120.4		
1130	25	150	9.65	1.0	6.89	1.146	13.84	0.84	11.5	89.8		
1135	30	150	10.88	1.2	6.89	1.148	13.06	0.85	11.6	69.4		
1140	35	150	11.28	1.4	6.90	1.156	12.90	0.87	11.8	53.5		
1145	40	150	11.57	1.6	6.90	1.161	11.85	0.87	12.0	40.4		
1150	45	150	11.79	1.8	6.90	1.160	11.89	0.84	12.0	30.6		
1155	50	150	11.90	2.0	6.90	1.164	10.55	0.83	12.0	23.9		
1200	55	150	11.96	2.2	6.90	1.169	9.97	0.82	12.0	19.2		
1205	60	150	11.98	2.4	6.91	1.172	9.82	0.82	12.0	17.4		

Constituents Sampled	Container	Number	Preservative
8260	40mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:

Condition of Well:

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID MW-7D Date 4/29/22

Project Name/Location: Northern Circuits Weather 45, Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): ~ Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.52 Total Depth (ft-bmp): 32.98 Water Column/ Gallons in Well: 29.46 / 4.80

MP Elevation: ~ Pump Intake (ft-bmp): ~31.50 Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 0940 Volumes Purged: ~

Sample Time: Label 1100 Start 1056 End 1105 Replicate/ Code No.: ~ Sampled by: DTM

PID: 0.1 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0945	5	150	3.80	0.2	7.73	0.291	40.63	8.86	11.4	184.1	Slight Br	None
0950	10	150	3.81	0.4	7.72	0.294	41.66	8.79	11.5	190.7		
0955	15	150	3.82	0.6	7.68	0.302	27.34	8.67	11.6	196.8		
1000	20	150	3.82	0.8	7.65	0.306	19.55	8.59	11.7	201.5	clear	
1005	25	150	3.82	1.0	7.10	0.631	12.05	6.12	11.9	221.2		
1010	30	150	3.83	1.2	7.07	0.662	10.58	2.78	11.9	214.6		
1015	35	150	3.83	1.4	7.06	0.713	11.86	3.20	11.5	211.8		
1020	40	150	3.83	1.6	7.04	1.022	8.62	2.56	11.6	210.2		
1025	45	150	3.83	1.8	7.10	1.173	7.84	1.71	11.6	204.4		
1030	50	150	3.83	2.0	7.12	1.206	7.20	1.48	11.6	198.8		
1035	55	150	3.83	2.2	7.14	1.248	6.39	1.27	11.7	194.2		
1040	60	150	3.83	2.4	7.16	1.275	5.83	1.13	11.7	189.3		
1045	65	150	3.83	2.6	7.18	1.306	5.63	1.10	11.7	183.9		
1050	70	150	3.83	2.8	7.19	1.322	5.41	1.07	11.7	179.7		
1055	75	150	3.83	3.0	7.21	1.339	5.57	1.06	11.7	177.6		X

Constituents Sampled	Container	Number	Preservative
8260	40mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: ___

Condition of Well: ___

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: ___

Well Locked at Departure: ___

Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID HMP-MW5 Date 4-29-22

Project Name/Location: Northern Circuits Weather 45, Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) / Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 2.60 Total Depth (ft-bmp) 21.86 Water Column/ Gallons in Well 19.26 / 3.14

MP Elevation / Pump Intake (ft-bmp) ~20.5' Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off 0825 / 0440 Volumes Purged / Sample Time: Label 0930 Start 0836 End 0935 Replicate/ Code No. / Sampled by DNM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0830	5	150	2.92	0.2	7.16	0.366	27.14	1.75	11.2	57.7	Slight Br	None
0835	10	150	2.86	0.4	7.12	0.356	32.10	1.18	11.0	52.6	↓	↓
0840	15	150	2.95	0.6	7.11	6.355	43.37	1.02	11.2	49.7		
0845	20	150	2.98	0.8	7.10	0.353	52.08	0.93	11.1	47.2		
0850	25	150	2.99	1.0	7.10	0.352	53.38	0.91	11.0	48.9		
0855	30	150	2.99	1.2	7.09	0.352	55.70	0.90	10.9	49.4		
0900	35	150	3.00	1.4	7.07	0.352	48.36	0.88	10.9	46.2		
0905	40	150	3.00	1.6	7.06	0.353	43.11	0.88	10.9	35.4		
0910	45	150	3.00	1.8	7.03	0.354	34.35	0.86	10.9	33.7	↓	
0915	50	150	3.01	2.0	7.02	0.355	36.11	0.86	10.8	~~5.2~~	5.2	
0920	55	150	3.01	2.2	7.02	0.355	35.53	0.85	10.9	1.7	Mod Clr	
0925	60	150	3.01	2.4	7.01	0.356	33.79	0.84	10.9	-1.3	↓	↓

Constituents Sampled	Container	Number	Preservative
8260	40mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: (Flush Mount) / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID MW-5D Date 4.29.27

Project Name/Location: Northern Circuits Weather 40° Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): — Casing Diameter (in.): 2" Well Material: 4 PVC ___ SS

Static Water Level (ft-bmp): 4.98 Total Depth (ft-bmp): 31.93 Water Column/ Gallons in Well: 26.95 / 4.39

MP Elevation: — Pump Intake (ft-bmp): ~30.5' Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 0725 Volumes Purged: —

Sample Time: Label 0825 Start 0821 End 0831 Replicate/ Code No.: — Sampled by: DRM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0730	5	150	5.13	0.2	7.20	0.744	0.61	1.90	11.6	242.4	Clear	none
0735	10	150	5.14	0.4	7.12	0.753	3.12	1.28	11.6	221.3	↓	↓
0740	15	150	5.14	0.6	7.07	0.761	2.75	1.07	11.7	187.3		
0745	20	150	5.14	0.8	7.05	0.763	2.52	0.99	11.7	160.1		
0750	25	150	5.15	1.0	7.03	0.769	2.42	0.41	12.0	122.9		
0755	30	150	5.15	1.2	7.02	0.770	1.85	0.89	12.0	104.8		
0800	35	150	5.15	1.4	7.02	0.769	1.98	0.86	12.0	82.4		
0805	40	150	5.15	1.6	7.01	0.771	2.57	0.85	12.0	64.6		
0810	45	150	5.15	1.9	7.01	0.776	2.25	0.83	12.1	51.7		
0815	50	150	5.15	2.0	7.01	0.777	2.04	0.81	12.1	49.4		
0820	55	150	5.16	2.2	7.00	0.779	1.76	0.80	12.1	46.3		

Constituents Sampled	Container	Number	Preservative
8260	40 mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes
Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

MS / MSD

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: (Flush Mount) / Stick Up Key Number To Well: ___

ARCADIS
Groundwater Sampling Form

Project No. 30053689 Well ID HRP-MW3 Date 4-28-22

Project Name/Location: Northern Circuits Weather 55, Sunny

Well Material X PVC ___ SS

Measuring Pt. Description: TIC Screen Setting (ft-bmp): / Casing Diameter (in.): 2"

Static Water Level (ft-bmp): 2.01 Total Depth (ft-bmp): 19.20 Water Column/ Gallons in Well: 17.19 / 2.80

MP Elevation: / Pump Intake (ft-bmp): ~18.0 Purge Method: Peri Sample Method: Low Flow

Pump On/Off: 1605 / Volumes Purged: / Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1650 Start 1646 End 1654 Replicate/ Code No.: ~ Sampled by: DRM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1610	5	150	2.15	0.2	6.97	0.536	7.95	1.35	10.5	116.4	Clear	None
1615	10	150	2.15	0.4	6.91	0.534	5.27	1.01	10.4	102.1	↓	↓
1620	15	150	2.19	0.6	6.88	0.532	5.78	0.92	10.2	92.2		
1625	20	150	2.21	0.8	6.86	0.532	5.46	0.90	10.3	83.3		
1630	25	150	2.21	1.0	6.86	0.530	4.71	0.88	10.2	75.8		
1635	30	150	2.22	1.2	6.86	0.529	5.60	0.86	10.1	70.3		
1640	35	150	2.22	1.4	6.85	0.529	5.00	0.84	10.1	65.5		
1645	40	150	2.22	1.6	6.85	0.528	4.83	0.83	10.1	63.6		

Constituents Sampled	Container	Number	Preservative
8260	40mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: (Flush Mount) / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 Well ID MW-6D Date 4-28-22

Project Name/Location: Northern Circuits Weather 50° Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): / | Casing Diameter (in.): 2" | Well Material: X PVC, SS

Static Water Level (ft-bmp): 3.38 | Total Depth (ft-bmp): 32.73 | Water Column/ Gallons in Well: 29.35/4.78

MP Elevation: / | Pump Intake (ft-bmp): ~31.0 | Purge Method: Peri, Centrifugal, Submersible, Other | Sample Method: Low Flow

Pump On/Off: 1456 | Volumes Purged: / | Sample Time: Label 1545, Start 1347, End 1499 | Replicate/ Code No.: /

Sampled by: DRM

PID: 0.0 | Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance: Color	Appearance: Odor
1500	4	150	3.91	0.20	7.39	0.463	9.24	1.47	11.3	133.8	Clear	None
1505	9	150	3.85	0.40	7.28	0.461	6.01	1.07	11.1	78.2		
1510	14	150	3.86	0.60	7.22	0.465	5.94	0.99	11.1	33.5		
1515	19	150	3.86	0.80	7.19	0.469	4.51	0.95	11.2	2.3		
1520	24	150	3.87	1.0	7.17	0.475	5.90	0.87	11.3	-14.0		
1525	29	150	3.87	1.2	7.16	0.478	2.43	0.85	11.4	-20.6		
1530	34	150	3.88	1.4	7.15	0.487	4.64	0.81	11.5	-28.2		
1535	39	150	3.88	1.6	7.14	0.498	2.60	0.79	11.5	-32.9		
1540	44	150	3.89	1.8	7.13	0.494	2.87	0.78	11.5	-34.4		

Constituents Sampled	Container	Number	Preservative
8260	40 mL VOA	3	HCl
8270 SIM	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

* Flow through cell in Sun causing temp differences

Well Information

Well Location:

Condition of Well:

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID ~~LTR~~ MW-65 Date 4-28-22

Project Name/Location: Northern Circuits Weather 50° Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): / Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.13 Total Depth (ft-bmp): 22.20 Water Column/ Gallons in Well: 20.07/3.27

MP Elevation: / Pump Intake (ft-bmp): ~21.0 Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1258/ Volumes Purged: / Sample Time: Label 1445 Start ___ End ___ Replicate/ Code No.: / Sampled by: DRM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1300	2	150	3.23	0.3	8.26	0.244	40.13	2.43	10.8	217.9	Slgh Br.	None
1305	7	150	4.55	0.4	8.29	0.241	19.14	1.20	10.7	206.5	↓	
1310	12	150	5.48	0.6	8.30	0.240	16.02	1.05	10.5	195.9	Clr	
1315	17	150	6.32	0.8	8.30	0.241	15.57	1.00	10.6	183.9	↓	
1320	22	150	7.07	1.0	8.31	0.244	23.21	1.00	10.8	171.2	Cloudy	
1325	27	150	7.60	1.2	8.25	0.253	46.17	0.98	11.0	161.5		
1330	32	150	8.12	1.4	8.11	0.270	88.69	0.95	11.0	141.9		
1335	37	150	8.39	1.6	8.12	0.272	892.41	0.93	11.2	120.1		
1340	42	150	8.67	1.8	8.13	0.274	94.32	0.90	11.3	97.6		
1345	47	150	8.81	2.0	8.04	0.290	107.60	0.87	11.3	71.1		
1350	52	150	9.17	2.2	8.08	0.283	103.16	0.90	11.3	59.1		
1355	57	150	9.30	2.4	7.99	0.302	153.57	0.87	11.5	42.9		
1400	62	150	9.32	2.6	7.96	0.307	109.94	1.16	11.6	55.3		
1405	67	150	9.34	2.8	7.86	0.310	103.44	0.89	11.6	39.1		
1410	72	150	9.35	3.0	7.83	0.312	92.39	0.84	11.5	22.0	↓	↓

Constituents Sampled	Container	Number	Preservative
8260	40mL VOA	3	HCl
8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

ARCADIS
Groundwater Sampling Form

Project No. _____ Well ID MW-65 Date _____

Project Name/Location: _____ Weather _____

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in.) _____ Well Material ___ PVC ___ SS

Static Water Level (ft-bmp) _____ Total Depth (ft-bmp) _____ Water Column/ Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method: Low Flow

Pump On/Off _____ Volumes Purged _____ Centrifugal _____ Submersible _____ Other _____

Sample Time: Label _____ Start _____ End _____ Replicate/ Code No. _____ Sampled by _____

PID: _____ Water Quality Meter Type and ID: _____

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1415	77	150	9.36	3.2	7.82	0.313	74.30	0.83	11.5	2.5	Slight Rust	None
1420	82	150	9.37	3.4	7.80	0.314	62.91	0.82	11.5	-8.0		
1425	87	150	9.38	3.6	7.79	0.315	57.31	0.81	11.7	-16.2		
1430	92	150	9.39	3.8	7.79	0.315	49.21	0.80	11.6	-28.9		
1435	97	150	9.40	4.0	7.78	0.316	42.89	0.86	11.7	-30.2		
1440	102	150	9.41	4.2	7.77	0.316	33.47	0.79	11.7	-33.6	Mod. Odor	↓
1443	105	150	9.42	4.4	7.76	0.317	31.67	0.78	11.7	-34.8	1	

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes
Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID HRP-MW4 Date 4-28-22

Project Name/Location: Northern Circuits Weather 45, Sunny

Measuring Pt. Description: TIC

Screen Setting (ft-bmp): —

Casing Diameter (in.): 2"

Well Material: ☒ PVC ☐ SS

Static Water Level (ft-bmp): 3.16

Total Depth (ft-bmp): 8.86

Water Column/ Gallons in Well: 5.7/0.93

MP Elevation: —

Pump Intake (ft-bmp): ~8.0

Purge Method: Peri ☐ Centrifugal ☐ Submersible ☐ Other

Sample Method: Low Flow

Pump On/Off: 1125 / 1230

Volumes Purged: —

Sample Time: Label 1220, Start 1216, End 1225

Replicate/ Code No.: —

Sampled by: DRM

PID: 0.0

Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1130	5	150	3.57	0.2	7.23	0.587	4.69	2.09	11.2	239.1	Clear	None
1135	10	150	3.58	0.4	7.11	0.559	4.54	1.43	11.2	230.8		
1140	15	150	3.62	0.6	7.08	0.554	3.79	1.24	11.1	222.5		
1145	20	150	3.61	0.8	7.06	0.554	4.11	1.12	11.2	215.3		
1150	25	150	3.60	1.0	7.04	0.552	4.68	1.04	11.2	208.0		
1155	30	150	3.60	1.2	7.04	0.552	3.15	0.95	11.2	200.2		
1200	35	150	3.61	1.4	7.03	0.550	2.71	0.91	11.3	194.0		
1205	40	150	3.61	1.6	7.03	0.551	2.60	0.88	11.3	194.6		
1210	45	150	3.60	1.8	7.03	0.551	2.43	0.87	11.3	181.2		
1215	50	150	3.60	2.0	7.02	0.550	2.74	0.85	11.3	178.7		

Constituents Sampled	Container	Number	Preservative
8260 VOC	40 mL VOA	3	HCl
8270 SIM 1,4 Dioxane	2 L Amb-V	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:

Condition of Well:

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

ARCADIS
Groundwater Sampling Form

Project No. 30053689 Well ID HMP-MW1 Date 4-26-22

Project Name/Location: Northern Circuits Weather 40, Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): — Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.22 Total Depth (ft-bmp): 9.23 Water Column/ Gallons in Well: 7.01 / 1.14

MP Elevation: — Pump Intake (ft-bmp): ~8.0 Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 0946 Volumes Purged: ✓

Sample Time: Label 1055 Start 1031 End 1100 Replicate/ Code No.: ✓ Sampled by: DRM

PID: 0.0 Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0950	4	150	3.34	0.2	7.11	0.614	8.44	2.27	8.8	116.8	Clear	None
0955	9	150	4.39	0.4	7.07	0.592	7.42	1.34	8.7	96.5		
1000	14	150	4.87	0.6	7.08	0.569	4.49	1.19	8.8	82.5		
1005	19	150	4.94	0.8	7.08	0.527	3.46	1.79	8.9	78.7		
1010	24	150	5.05	1.0	7.07	0.518	2.94	2.22	8.8	85.5		
1015	29	150	5.17	1.2	7.07	0.528	2.46	1.84	8.7	87.9		
1020	34	150	5.30	1.4	7.07	0.542	2.01	1.53	8.7	90.2		
1025	39	150	5.41	1.6	7.07	0.546	2.17	1.38	8.7	89.4		
1030	44	150	5.53	1.8	7.07	0.554	1.66	1.26	8.7	88.0		
1035	49	150	5.58	2.0	7.07	0.557	1.60	1.21	8.7	86.8		
1040	54	150	5.62	2.2	7.06	0.565	1.64	1.13	8.8	83.0		
1045	59	150	5.64	2.4	7.06	0.566	1.56	1.16	8.7	81.1		
1050	64	150	5.65	2.6	7.05	0.567	1.78	1.08	8.8	79.4		

Constituents Sampled	Container	Number	Preservative
VOC 8260	40mL VOA	3	HCl
1,4 Dioxane 8270 SIM	1L Amb	2	None

Well Casing Volumes Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

DUP-042822

Well Information

Well Location: Well Locked at Arrival:

Condition of Well: Well Locked at Departure:

Well Completion: Flush Mount / Stick Up Key Number To Well:

ARCADIS
Groundwater Sampling Form

Project No. 30053669 | Well ID HNP-MW2 | Date 4-28-22

Project Name/Location: Northern Circuits | Weather 40, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): — | Casing Diameter (in.): 2" | Well Material: X PVC, ___ SS

Static Water Level (ft-bmp): 1.63 | Total Depth (ft-bmp): 9.12 | Water Column/ Gallons in Well: 7.49/1.22

MP Elevation: — | Pump Intake (ft-bmp): ~8.0' | Purge Method: Peri | Sample Method: Low Flow

Pump On/Off: 0814/0941 | Volumes Purged: — | Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 0935, Start 0931, End 0941 | Replicate/ Code No.: — | Sampled by: DM

PID: 0.0 | Water Quality Meter Type and ID: YSI Pro

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0920	6	150	3.68	0.2	7.08	0.733	13.38	6.74	9.0	258.5	Clear	None
0825	11	150	4.63	0.4	7.12	0.717	9.35	6.29	8.9	227.2		
0830	16	150	4.66	0.6	7.14	0.642	7.95	5.61	9.0	202.8		
0835	21	150	4.65	0.8	7.22	0.513	8.92	4.97	8.9	154.4		
0840	26	150	4.70	1.0	7.30	0.427	8.71	4.11	9.0	126.7		
0845	31	150	4.67	1.2	7.40	0.344	9.19	3.74	9.0	101.7		
0850	36	150	4.70	1.4	7.27	0.420	7.32	3.02	9.0	94.6		
0855	41	150	4.71	1.6	7.21	0.444	5.77	2.34	9.0	90.7		
0900	46	150	4.68	1.8	7.15	0.474	4.24	2.55	9.1	83.6		
0905	51	150	4.70	2.0	7.11	0.495	2.90	2.09	9.0	36.4		
0910	56	150	4.71	2.2	7.10	0.508	2.40	1.83	9.0	4.5		
0915	61	150	4.70	2.4	7.09	0.517	2.33	1.63	9.1	-19.5		
0920	66	150	4.70	2.6	7.08	0.523	2.45	1.59	9.0	-29.3		
0925	71	150	4.71	2.8	7.08	0.524	2.31	1.57	9.0	-31.0		
0930	76	150	4.72	3.0	7.07	0.524	2.50	1.55	9.0	-32.7		

Constituents Sampled	Container	Number	Preservative
VOC 8260	40mL VOA	3	HCl
1,4 Dioxane 8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: | Well Locked at Arrival:

Condition of Well: | Well Locked at Departure:

Well Completion: Flush Mount / Stick Up | Key Number To Well:

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: DRM
Client / Job Number: 300,53689
Weather: 45, Cloudy

Well ID: MW-14D
Date: 4-27-22
Time In: 1545 Time Out: 1655

Well Information

Depth to Water: 1.98 (from MP)
Total Depth: 14.94 (from MP)
Length of Water Column: 12.96
Volume of Water in Well: 2.11
Three Well Volumes: 6.33

Well Type: (Flushmount) Stick-Up
Well Material: Stainless Steel (PVC)
Well Locked: (Yes) No
Measuring Point Marked: (Yes) No
Well Diameter: 1" (2") Other:

Purging Information

Purging Method: ~~Bladder~~, Peri Other:
Tubing/Bailer Material: Polyethylene Other:
Sampling Method: Bailer Other:
Duration of Pumping: 50 (min)
Average Pumping Rate: 200 (ml/min)
Total Volume Removed: 2.75 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1 1555	2 1600	3 1605	4 1610	5 1615	6 1620	7 1625	8 1630	9 1635	1640
Volume Purged (mL)	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.34	2.60
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	2.98	3.47	3.88	4.01	4.23	4.36	4.52	4.60	4.64	4.67
pH	7.15	7.14	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13
Temp. (C)	9.7	9.5	9.5	9.6	9.5	9.5	9.5	9.5	9.5	9.5
Conductivity (mS/cm)	0.632	0.632	0.636	0.638	0.642	0.641	0.649	0.665	0.664	0.668
Dissolved Oxygen	0.83	0.70	0.65	0.62	0.60	0.59	0.58	0.57	0.56	0.55
ORP (mV)	170.5	160.6	153.6	146.7	140.1	132.5	125.7	121.6	119.2	116.8
Turbidity (NTU)	17.41	12.13	7.63	5.31	3.54	2.56	2.22	2.67	3.31	2.97
Notes:										

Sampling Information

Analyses	#	Laboratory
8260B	3	Pace
6200.51M	2	V
Sample ID: MW-14D	Sample Time: 1645	
MS/MSD: Yes (No)		
Duplicate: Yes (No)		
Duplicate ID	Dup. Time:	

Problems / Observations

PID = 0.0
Start 1550
End: 1650

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: DRM
Client / Job Number: 300.53689
Weather: 45° Cloudy

Well ID: MW-1D
Date: 4-27-22
Time In: 1435 Time Out: 1545

Well Information

Depth to Water:	4.13	(from MP)
Total Depth:	20.27	(from MP)
Length of Water Column:	16.14	
Volume of Water in Well:	2.58	
Three Well Volumes:	7.74	

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	1" (2")	Other:

Purging Information

Purging Method:	~~Bladder~~ Peri	Other:
Tubing/Bailer Material:	Polyethylene	Other:
Sampling Method:	Bailer	Other:
Duration of Pumping:	55 (min)	
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type: YSI Pro
Total Volume Removed:	2.10 (gal)	Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1450	1455	1500	1505	1510	1515	1520	1525	1530
Volume Purged (mL)	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	4.40	4.43	4.44	4.45	4.45	4.46	4.46	4.46	
pH	7.13	7.13	7.13	7.13	7.12	7.12	7.11	7.10	
Temp. (C)	9.3	9.4	9.4	9.5	9.5	9.4	9.4	9.3	
Conductivity (mS/cm)	0.847	0.847	0.853	0.858	0.862	0.872	0.874	0.875	
Dissolved Oxygen	0.72	0.68	0.63	0.61	0.60	0.59	0.58	0.57	
ORP (mV)	18.5	14.8	10.3	8.9	6.6	4.9	3.6	4.4	
Turbidity (NTU)	7.71	7.28	4.61	3.89	3.81	2.74	2.28	1.75	
Notes:									

Sampling Information

Analyses	#	Laboratory
8260B	3	Pace
40 CFR 258 APP I	2	"

Sample ID: MW-1D	Sample Time: 1530	
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	Dup. Time:	

Problems / Observations

PID = 0.1

Start: 1445

End: 1540

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: DRM | Well ID: MW-1
Client / Job Number: 30053689 | Date: 4.27.22
Weather: 50, Cloudy | Time In: 1320 | Time Out: 1433

Well Information

Depth to Water:	3.33	(from MP)	
Total Depth:	15.03	(from MP)	
Length of Water Column:	11.70		
Volume of Water in Well:	0.48		
Three Well Volumes:	1.44		

Well Type:	Flushmount		Stick Up
Well Material:	Stainless Steel		PVC
Well Locked:	Yes		No
Measuring Point Marked:	Yes		No
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	~~Bladder~~ Peri	Other:	
Tubing/Bailer Material:	Polyethylene	Other:	
Sampling Method:	Bailer	Other:	
Duration of Pumping:	70 (min)		
Average Pumping Rate:	150 (ml/min)	Water-Quality Meter Type:	YSI Pro D
Total Volume Removed:	2.0 (gal)	Did well go dry:	Yes / No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1335	1340	1345	1350	1355	1400	1405	1410	1415
Volume Purged (mL)	0.20	0.40	0.60	0.80	1.0	1.2	1.4	1.6	1.8
Rate (mL/min)	150	150	150	150	150	150	150	150	150
Depth to Water (ft.)	8.55	9.72	10.50	10.72	10.92	11.00	11.03	11.04	11.04
pH	7.20	7.21	7.21	7.21	7.21	7.21	7.22	7.21	7.22
Temp. (C)	9.2	9.1	9.0	8.9	8.9	9.0	8.7	8.9	8.8
Conductivity (mS/cm)	0.704	0.698	0.685	0.683	0.682	0.681	0.680	0.681	0.680
Dissolved Oxygen	1.01	1.01	0.87	0.82	0.79	0.75	0.72	0.66	0.68
ORP (mV)	150.3	129.1	99.0	85.9	72.1	65.2	59.6	54.5	53.2
Turbidity (NTU)	97.44	45.30	19.72	17.22	18.68	23.66	14.78	14.21	~~18.68~~ 13.83
Notes:									

Sampling Information

Analyses	#	Laboratory
8260B	3	Pace
4270 SIM	2	"
Sample ID: MW-1	Sample Time: 1420	
MS/MSD: Yes / No		
Duplicate: Yes / No		
Duplicate ID: —	Dup. Time: —	

Problems / Observations

PID = 0.0
StrA: 1330
End: 1430

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: DRM
Client / Job Number: 30053689
Weather: 50, cloudy

Well ID: MW-135
Date: 4/27/21
Time In: 1220 Time Out: 1315

Well Information

Depth to Water:	1.91	(from MP)
Total Depth:	22.62	(from MP)
Length of Water Column:	20.71	
Volume of Water in Well:	3.38	
Three Well Volumes:	10.14	

Well Type:	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	1"	Other:

Purging Information

Purging Method:	~~Bladder~~ Peri	Other:
Tubing/Bailer Material:	Polyethylene	Other:
Sampling Method:	Bailer	Other:
Duration of Pumping:	40 (min)	
Average Pumping Rate:	200 (ml/min)	
Total Volume Removed:	2.25 (gal)	

Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1225	1230	1235	1240	1245	1250	1255	1300	1305
Volume Purged (mL)	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	3.56	4.33	4.66	4.96	5.04	5.08	5.09	5.10	
pH	7.21	7.20	7.20	7.19	7.19	7.19	7.19	7.19	
Temp. (C)	10.5	10.3	10.3	10.8	10.7	10.7	10.6	10.7	
Conductivity (mS/cm)	1.017	1.014	1.015	1.021	1.026	1.030	1.033	1.040	
Dissolved Oxygen	0.90	0.83	0.80	0.73	0.70	0.67	0.66	0.63	
ORP (mV)	-37.5	-37.5	-38.6	-45.0	-51.2	-53.4	-55.1	-58.3	
Turbidity (NTU)	20.59	16.54	13.02	13.29	14.47	13.17			
Notes:									

Sampling Information

Analyses	#	Laboratory
8260B	3	Pace
8270 SIM	2	↓
Sample ID: MW-135	Sample Time: 1305	
MS/MSD: Yes (No)		
Duplicate: Yes (No)		
Duplicate ID —	Dup. Time:	

Problems / Observations

PID = 0.2
Start: 1221
End: 1310

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: DRM
Client / Job Number: 300-53689
Weather: 50° Cloudy

Well ID: MW-12S
Date: 4-27-22
Time In: 1055 Time Out: 1215

Well Information

Depth to Water:	1.64'	(from MP)
Total Depth:	22.13'	(from MP)
Length of Water Column:	20.44'	
Volume of Water in Well:	3.34	
Three Well Volumes:	10.02'	

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	~~Bladder~~ Peri	Other:
Tubing/Bailer Material:	Polyethylene	Other:
Sampling Method:	Bailer	Other:
Duration of Pumping:	55 (min)	
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type: YSI Pro
Total Volume Removed:	2.23 (gal)	Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1115	1120	1125	1130	1135	1140	1145	1150	1155
Volume Purged (mL)	0.26	0.52	0.78	1.04	1.30	1.56	1.82	2.08	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	2.71	2.98	3.56	3.89	4.05	3.98	3.99	3.99	
pH	6.94	6.99	7.01	7.02	7.02	7.03	7.03	7.03	
Temp. (C)	10.7	10.9	10.9	10.9	11.0	11.1	11.1	11.1	
Conductivity (mS/cm)	1.288	1.290	1.291	1.290	1.290	1.291	1.290	1.289	
Dissolved Oxygen	0.91	0.76	0.67	0.65	0.63	0.61	0.60	0.58	
ORP (mV)	-45.2	-51.3	-56.1	-56.7	-57.9	-58.5	-57.9	-57.4	
Turbidity (NTU)	19.36	16.22	12.36	11.13	8.02	5.90	4.49	3.36	
Notes:									

Sampling Information

Analyses	#	Laboratory
8260B	3	Pace
8270 SIM	2	Pace

Sample ID: MW-12S Sample Time: 1155
MS/MSD: Yes (No)
Duplicate: Yes (No)
Duplicate ID: — Dup. Time: —

Problems / Observations

PID = 0.5 ppm
Start: 1110
End: 1203

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sinay
Client / Job Number: NYSDEC
Weather: 42°F overcast

Well ID: MW-10D
Date: 4/27/22
Time In: 0800 Time Out: 1010

Well Information

Depth to Water:	2.52	(from MP)
Total Depth:	33.34	(from MP)
Length of Water Column:	30.82	
Volume of Water in Well:	5.023	
Three Well Volumes:	15.07	

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	1" (2)	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	(Bailer (VOCs))	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 45 (min)
Average Pumping Rate: 190 (ml/min)
Total Volume Removed: ~2 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors

gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	0845	0850	0855	0900	0905	0910	0915	0920	0925
Volume Purged (mL)	—	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
Rate (mL/min)	190	190	190	190	190	190	190	190	190
Depth to Water (ft.)	2.93	3.15	3.27	3.40	3.51	3.54	3.54	3.54	3.54
pH	7.28	7.19	7.16	7.14	7.13	7.11	7.10	7.08	7.07
Temp. (C)	10.8	10.7	11.0	11.0	11.1	11.1	11.0	11.0	11.1
Conductivity (mS/cm)	0.811	0.814	0.820	0.817	0.812	0.803	0.800	0.793	0.789
Dissolved Oxygen	1.84	1.29	1.09	1.02	0.94	0.90	0.88	0.87	0.89
ORP (mV)	228.2	148.0	97.5	61.2	21.8	-10.5	-33.9	-34.1	-35.3
Turbidity (NTU)	1.75	0.85	0.40	0.56	0.46	0.80	0.89	0.77	0.54
Notes:									

0930 SAMPLE

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

Sample ID: MW-10D Sample Time: 0930
MS/MSD: (Yes) No
Duplicate: Yes (No)
Duplicate ID: — Dup. Time: —

Problems / Observations

~~PID =~~

MS/MSD Collected: @0930

MW-10D-MS
MW-10D-MSD

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sirany
Client / Job Number: NYSDEC
Weather: Overcast

Well ID: MW-105
Date: 4/27/22
Time In: 1110 Time Out: 1130

Well Information

Depth to Water:	3.01	(from MP)
Total Depth:	26.39	(from MP)
Length of Water Column:	23.38	
Volume of Water in Well:	3.81	
Three Well Volumes:	11.43	

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	1" (2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	(Bailer (VOCs))	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 40 (min)
Average Pumping Rate: 190 (ml/min)
Total Volume Removed: 1.75 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter / Time:	1 1030	2 1035	3 1040	4 1045	5 1050	6 1055	7 1100	8 1107	9
Volume Purged (mL)	—	0.250	0.5	0.75	1.00	1.25	1.50	SAMPLE	
Rate (mL/min)	190	190	190	190	190	190	190		
Depth to Water (ft.)	3.44	4.53	4.98	4.85	4.90	4.90	4.90		
pH	7.41	7.33	7.29	7.28	7.25	7.22	7.20		
Temp. (C)	10.9	11.0	11.2	11.3	11.2	11.3	11.2		
Conductivity (mS/cm)	0.612	0.615	0.616	0.610	0.608	0.609	0.602		
Dissolved Oxygen	1.85	1.27	1.04	0.93	0.90	0.89	0.88		
ORP (mV)	162.4	112.7	40.0	-41.8	-70.7	-72.1	-75.9		
Turbidity (NTU)	22.36	19.80	23.40	23.49	22.93	21.08	22.31		
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

Sample ID: MW-105 Sample Time: 1107
MS/MSD: Yes (No)
Duplicate: (Yes) No
Duplicate ID: DUP-042722 Dup. Time: Same as sample

Problems / Observations

PID ~~=~~

DUP Collected:
DUP-042722

Site | Event

GROUNDWATER SAMPLING LOG

Well ID: MW-9S
Sampling Personnel: Josh Singer
Client / Job Number: NYSDEC
Date: 4/27/22
Time In: 1200 Time Out: 1330
Weather: 42°F overcast

Well Information

Depth to Water:	2.17	(from MP)
Total Depth:	21.85	(from MP)
Length of Water Column:	19.68	
Volume of Water in Well:	3.21	
Three Well Volumes:	9.62	

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	1" (2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	(Bailer (VOCs))	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 50 (min)
Average Pumping Rate: 190 (ml/min)
Total Volume Removed: 2.5 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9	
	1220	1225	1230	1235	1240	1245	1250	1255	1300	1305
Volume Purged (mL)	—	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
Rate (mL/min)	190	190	190	190	190	190	190	190	190	190
Depth to Water (ft.)	2.51	3.22	3.43	3.55	3.64	3.71	3.73	3.73	3.73	3.73
pH	7.60	7.44	7.35	7.33	7.32	7.31	7.30	7.30	7.31	7.30
Temp. (C)	10.0	10.2	10.6	10.5	10.7	10.6	10.7	10.8	10.8	10.7
Conductivity (mS/cm)	0.313	0.313	0.314	0.312	0.313	0.312	0.313	0.315	0.316	0.317
Dissolved Oxygen	2.42	1.41	1.06	0.98	0.94	0.92	0.89	0.88	0.83	0.80
ORP (mV)	185.6	180.7	160.5	123.4	110.0	64.3	32.9	-6.4	-10.1	-11.4
Turbidity (NTU)	4.87	6.25	2.55	2.21	2.30	1.89	1.63	1.67	1.49	1.83
Notes:										

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

Sample ID: MW-9S Sample Time: 1307
MS/MSD: Yes (No)
Duplicate: Yes (No)
Duplicate ID / Dup. Time: /

PID =

Problems / Observations

Sample @ 1307

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sinay
Client / Job Number: NYSDEC
Weather: 42°F Overcast

Well ID: MW-9D
Date: 4/27/22
Time In: 1330 Time Out: 1430

Well Information

Depth to Water:	2.95	(from MP)
Total Depth:	33.40	(from MP)
Length of Water Column:	30.45	
Volume of Water in Well:	4.96	
Three Well Volumes:	14.89	

Well Type:	(Flushmount)		Stick-Up
Well Material:	Stainless Steel		(PVC)
Well Locked:	(Yes)		No
Measuring Point Marked:	(Yes)		No
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	Bailer (VOCs)	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 40 (min)
Average Pumping Rate: 190 (ml/min)
Total Volume Removed: ~1.75 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1335	1340	1345	1350	1355	1400	1405	1407	
Volume Purged (mL)		0.25	0.50	0.75	1.00	1.25	1.50	SAMPLE	
Rate (mL/min)	190	190	190	190	190	190	190		
Depth to Water (ft.)	3.33	4.37	4.89	5.11	5.15	5.15	5.15		
pH	7.23	7.13	7.09	7.07	7.06	7.06	7.06		
Temp. (C)	11.4	11.5	11.2	11.4	11.4	11.3	11.1		
Conductivity (mS/cm)	0.555	0.602	0.601	0.606	0.607	0.607	0.605		
Dissolved Oxygen	4.80	1.33	1.07	0.96	0.91	0.88	0.88		
ORP (mV)	174.7	159.0	136.4	113.7	94.2	87.3	84.9		
Turbidity (NTU)	3.20	4.90	4.10	3.07	2.33	1.65	1.55		
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

~~PID =~~

Sample ID: MW-9D Sample Time: 1407
MS/MSD: Yes (No)
Duplicate: Yes (No)
Duplicate ID: / Dup. Time: /

Problems / Observations

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sinay
Client / Job Number: NYSDEC
Weather: 42°F overcast

Well ID: MW-8S
Date: 4/27/22
Time In: 1430 Time Out: 1525

Well Information

Depth to Water:	2.09	(from MP)
Total Depth:	19.06	(from MP)
Length of Water Column:	16.97	
Volume of Water in Well:	2.77	
Three Well Volumes:	8.30	

Well Type:	(Flushmount)		Stick-Up
Well Material:	Stainless Steel		(PVC)
Well Locked:	(Yes)		No
Measuring Point Marked:	(Yes)		No
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	(Bailer (VOCs))	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 45 (min)
Average Pumping Rate: 225 (ml/min)
Total Volume Removed: ~2.5 (gal)
Water-Quality Meter Type: YSI Pro
Did well go dry: Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9
	1440	1445	1450	1455	1500	1505	1510	1515	1517
Volume Purged (mL)	—	0.3	0.6	0.9	1.2	1.5	1.8	2.1	SAMPLE
Rate (mL/min)	225	225	225	225	225	225	225	225	
Depth to Water (ft.)	2.15	3.18	3.25	3.28	3.30	3.31	3.31	3.31	
pH	7.65	7.48	7.46	7.44	7.43	7.43	7.43	7.43	
Temp. (C)	10.3	10.8	10.7	10.5	10.7	10.6	10.5	10.5	
Conductivity (mS/cm)	0.291	0.289	0.288	0.296	0.304	0.307	0.310	0.314	
Dissolved Oxygen	4.32	1.56	1.47	1.26	1.03	0.99	0.93	0.90	
ORP (mV)	180.6	137.9	63.5	14.2	-16.2	-35.6	-41.8	-45.0	
Turbidity (NTU)	68.21	34.00	27.30	18.09	15.00	12.70	11.92	11.45	
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

Sample ID: MW-8S Sample Time: 1517
MS/MSD: Yes (No)
Duplicate: Yes (No)
Duplicate ID: / Dup. Time: /

~~PID =~~

Problems / Observations

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Josh Sinay
Client / Job Number: NYSDEC
Weather: 42°F overcast

Well ID: MW-8D
Date: 4/27/22
Time In: 1525 Time Out: 1640

Well Information

Depth to Water:	1.80	(from MP)
Total Depth:	27.32	(from MP)
Length of Water Column:	25.52	
Volume of Water in Well:	4.16	
Three Well Volumes:	12.48	

Well Type:	Flushmount		Stick-Up
Well Material:	Stainless Steel		(PVC)
Well Locked:	(Yes)		No
Measuring Point Marked:	(Yes)		No
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other: LDPE
Sampling Method:	(Bailer (VOCs))	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	45 (min)			
Average Pumping Rate:	190 (ml/min)		Water-Quality Meter Type:	YSI Pro
Total Volume Removed:	~2.25 (gal)		Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Time: / Parameter:	1	2	3	4	5	6	7	8	9 (1617 SAMPLE)
	1535	1540	1545	1550	1555	1600	1605	1610	1615
Volume Purged (mL)	—	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
Rate (mL/min)	190	190	190	190	190	190	190	190	190
Depth to Water (ft.)	2.70	3.31	3.53	3.62	3.71	3.73	3.75	3.77	3.77
pH	7.83	7.88	7.93	7.94	7.99	7.98	7.97	7.97	7.98
Temp. (C)	9.3	10.0	9.7	10.4	10.2	10.3	10.3	10.4	10.5
Conductivity (mS/cm)	0.314	0.325	0.326	0.342	0.352	0.366	0.376	0.386	0.392
Dissolved Oxygen	8.22	7.01	6.76	6.02	5.48	4.85	4.34	4.26	4.19
ORP (mV)	97.9	105.8	113.9	120.4	123.7	129.9	132.9	134.2	135.3
Turbidity (NTU)	68.34	47.55	33.15	29.60	25.90	24.07	19.21	19.15	19.04
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs		
1,4-Dioxane		

Sample ID: MW-8D Sample Time: 1617
MS/MSD: Yes (No)
Duplicate: Yes (No)
Duplicate ID: / Dup. Time: /

PID = —

Problems / Observations

2.25

ARCADIS
Groundwater Sampling Form

Project No. 30053689 Well ID MW-20D Page 1 of 1

Project Name/Location: Northern Circuits Date 7-28-22

Measuring Pt. Description TOC Screen Setting (ft-bmp) 34.5-37.5 Casing Diameter (in.) 2" Weather 80 Rain

Static Water Level (ft-bmp) 5.82 Total Depth (ft-bmp) 36.81 Water Column/ Gallons in Well 30.99 / 5.05 Well Material X PVC ___ SS

MP Elevation NA Pump Intake (ft-bmp) ~35.5' Purge Method: Pest

Pump On/Off 1440 Volumes Purged ___ Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Sample Time: Label 1525 Start 1541 End 1546 Replicate/ Code No. ___ Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1443	5	200	5.85	0.25	6.75	2.34	117	0.94	17.30	-141	Clear	none
1450	10	"	5.88	0.5	6.77	2.37	103	0.87	17.18	-147		
1455	15	"	5.88	0.75	6.77	2.39	94	0.87	16.88	-161		
1500	20	"	5.88	1.0	6.78	2.39	87	0.77	16.40	-155		
1505	25	"	5.89	1.25	6.78	2.39	81	0.86	16.51	-157		
1510	30	"	5.89	1.5	6.78	2.39	70	0.84	16.69	-160		
1515	35	"	5.89	1.75	6.78	2.39	~~39~~ 39	0.82	17.81	-164		
1520	40	"	5.89	2.0	6.77	2.39	37	0.81	17.84	-167		
1525		Sampled										

← T ↑ sun out

Constituents Sampled	Container	Number	Preservative
VOC	40 mL VOA	3	HCl
1,4 Dioxane	1L amber	2	None
Nitrate + Sulfate	500 plast	1	None
Calcium	250 plast	1	HNO3
TOC	250 amber	1	H2PO4
ALK by 2320B	250 plastic	1	None

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: ___

Condition of Well: ___ Well Locked at Departure: ___

Well Completion: ~~Flush Mount~~ / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 Well ID MW-20[illegible]S Date 7-28-22

Project Name/Location: Northern Circuits Weather 87°, Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) 9.5-19.5' Casing Diameter (in.) 2" Well Material ☒ PVC ☐ SS

Static Water Level (ft-bmp) 3.36 Total Depth (ft-bmp) 17.96 Water Column/ Gallons in Well 14.7 / 2.39

MP Elevation NA Pump Intake (ft-bmp) ~ 15.0 Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off 1320 Volumes Purged

Sample Time: Label 1405 Start End Replicate/ Code No. Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horriba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1325	5	200	4.10	0.25	6.87	1.14	174	1.57	18.45	-165	Cloudy	None
1330	10	"	4.24	0.5	6.73	1.15	107	1.06	17.72	-176	"	
1335	15	"	4.41	0.75	6.69	1.09	70.3	0.90	17.24	-179	Clear	
1340	20	"	4.44	1.0	6.70	1.12	47.4	0.91	17.14	-180		
1345	25	"	4.46	1.25	6.70	1.12	22	0.87	16.94	-180		
1350	30	"	4.48	1.5	6.69	1.13	9.4	0.85	16.93	-180		
1355	35	"	4.49	1.75	6.68	1.12	6.9	0.85	16.74	-177		
1400	40	"	4.49	2.0	6.67	1.11	4.7	0.83	16.68	-176	↓	↓
1405		Sampled										

Constituents Sampled	Container	Number	Preservative
VOC	40mL Voa	3	HCl
1,4 Dioxane	1L Amber	2	None
Nitrate + Sulfate	500 Plastic	1	None
Calcium	250 ~~Amber~~ Plastic	1	HNO_3
TOC	250 Amber	1	H_2SO_4
Alk	250 Plastic	1	None

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

DUP-072822 collected

Well Information

Well Location: Grass Between 8 & 10 Rds Well Locked at Arrival:

Condition of Well: Good Well Locked at Departure:

Well Completion: Flush Mount / Stick Up Key Number To Well:

ARCADIS

Groundwater Sampling Form

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Project No. 30053689 Well ID MW-19D Date 7-28-22

Project Name/Location: NC Weather 80° Sunny

Measuring Pt. Description: TIC Mark Screen Setting (ft-bmp): 36-40 Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.06 Total Depth (ft-bmp): 39.40 Water Column/ Gallons in Well: 36.34 / 5.93

MP Elevation: NA Pump Intake (ft-bmp): ~38' Purge Method: Peri Sample Method: Low Flow

Pump On/Off: OFF Volumes Purged: ___ Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1050 Start ___ End ___ Replicate/ Code No. ___ Sampled by DRM

PID: 0.0 Water Quality Meter Type and ID: Horriba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters ~~Purged~~	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1000	5	~200mL	3.17	0.25	5.90	2.70	147	2.68	18.49	-47	Milky	None
1005	10	200	3.16	0.5	6.36	2.66	132	1.81	17.96	-137	↓	
1010	15	"	3.17	0.75	6.52	2.62	116	1.63	17.63	-153		
1015	20	"	3.14	1.0	6.60	2.59	104	1.50	17.61	-158	↓	
1020	25	"	3.14	1.25	6.64	2.57	89	1.42	17.61	-159	Clear	
1025	30	"	3.18	1.5	6.69	2.53	72	1.35	17.59	-158		
1030	35	"	3.20	1.75	6.70	2.46	63	1.28	17.62	-156		
1035	40	"	3.20	2.0	6.71	2.44	51	1.20	17.82	-153		
1040	45	"	3.20	2.25	6.71	2.41	47	1.17	17.94	-151		
1045	50	"	3.20	2.5	6.72	2.48	46	1.15	17.79	-149	↓	↓
1050		Sampled										

Constituents Sampled	Container	Number	Preservative
VOC 8260	40mL VOA	3	HCl
1,4 Dioxane	1L amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Collamer Dr. Well Locked at Arrival: No

Condition of Well: ✓ Well Locked at Departure: No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS

Groundwater Sampling Form

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Project No. 30053809 Well ID MW-19S Date 7-28-22

Project Name/Location: Northern Circuits Weather 80° Sunny

Measuring Pt. Description: TOC Mark Screen Setting (ft-bmp): 19-29' Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.28 Total Depth (ft-bmp): 28.74 Water Column/ Gallons in Well: 25.46/4.13

MP Elevation: NA Pump Intake (ft-bmp): ~26' Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1055/1220 Volumes Purged ___

Sample Time: Label 1145 Start 1111 End 1215 Replicate/ Code No. ___ Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1100	5	200mL	3.29	0.25	6.84	1.61	154	1.08	19.53	-148	Milky	None
1105	10	200	3.30	0.5	6.84	1.58	150	1.03	19.20	-153	"	"
1110	15	200	3.32	0.75	6.84	1.59	114	1.00	18.62	-157	"	"
1115	20	200	3.32	1.0	6.83	1.60	100	0.98	18.48	-158	"	"
1120	25	200	3.31	1.25	6.82	1.61	84	0.97	18.41	-159	"	"
1125	30	200	3.32	1.5	6.81	1.62	71	0.95	18.29	-158	Clear	"
1130	35	200	3.32	1.75	6.80	1.63	54	0.95	18.16	-159	"	"
1135	40	200	3.32	2.0	6.80	1.64	50	0.94	18.00	-160	"	"
1140	45	200	3.32	2.25	6.80	1.65	49	0.94	17.97	-161	"	"

Constituents Sampled	Container	Number	Preservative
VOC	40mL VOA	3	HCl
1,4 Dioxane	1L amber	2	None
Nitrate + Sulfate	500mL plastic	1	None
Calcium	250 amber plastic	1	HNO_3
TOC	250 amber	1	H_2SO_4
Alk	250 plastic	1	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Collaer Dr. Well Locked at Arrival: ___

Condition of Well: Good Well Locked at Departure: ___

Well Completion: (Flush Mount) / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

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Project No. 30052699 Well ID MW-18S Date 7-29-20

Project Name/Location: Northern Circuits Weather 75, Sunny

Measuring Pt. Description: TFC Screen Setting (ft-bmp): 10-20 Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.64 Total Depth (ft-bmp): 19.93 Water Column/ Gallons in Well: 16.29 / 2.66

MP Elevation: NA Pump Intake (ft-bmp): ~17.0' Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 0756/ Volumes Purged ___

Sample Time: Label 0855 Start 0851 End 0857 Replicate/ Code No. ___ Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0800	5	200	4.75	0.25	7.94	2.05	141	12.46	17.88	-203	Cloudy	None
0805	10	"	5.77	0.5	7.22	2.03	137	6.43	17.57	-173	"	"
0810	15	"	6.46	0.75	7.13	2.02	127	4.62	17.91	-161	"	"
0815	20	"	7.08	1.0	7.11	2.02	121	4.12	17.90	-152	"	"
0820	25	"	7.64	1.25	7.11	2.00	114	3.83	17.76	-147	"	"
0825	30	"	8.14	1.5	7.11	1.99	74.9	3.59	17.77	-146	Clear	"
0830	35	"	8.42	1.75	7.11	1.98	63.4	3.52	17.69	-150	"	"
0835	40	"	8.88	2.0	7.10	1.97	57.8	3.38	17.62	-158	"	"
0840	45	"	8.98	2.25	7.10	1.97	41.7	3.19	17.44	-168	"	"
0845	50	"	9.06	2.5	7.10	1.96	39.7	3.08	17.52	-166	"	"
0850	55	"	9.09	2.75	7.10	1.96	37.8	3.04	17.50	-167	"	"

Constituents Sampled	Container	Number	Preservative
VOC	40 mL Vial	3	HCl
1,4	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Collared Well Locked at Arrival: ___

Condition of Well: Good Well Locked at Departure: ___

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

ARCADIS

Groundwater Sampling Form

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Project No. 30053699 Well ID MW-17S Date 7-28-22

Project Name/Location: Northern Crowns Weather 93 Sunny

Measuring Pt. Description: TIC Screen Setting (ft-bmp): 14-24' Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 2.38' Total Depth (ft-bmp): 22.80 Water Column/ Gallons in Well: 20.42 / 3.33

MP Elevation: NA Pump Intake (ft-bmp): ~21.0' Purge Method: Peri Sample Method: Low Flow

Pump On/Off: 1600/ Volumes Purged: ~ Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 1645 Start ___ End ___ Replicate/ Code No. ~ Sampled by DH

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1605	5	200	3.14'	0.25	6.91	1.53	201	2.49	21.42	-77	Cloudy	None
1610	10	~~200~~	3.44'	0.5	6.82	1.51	154	2.00	20.57	-93	"	
1615	15	~~200~~	3.57'	0.75	6.78	1.43	98	1.30	21.10	-106	Clear	
1620	20	"	3.59	1.0	6.77	1.39	80	1.16	21.36	-111		
1625	25	"	3.60	1.25	6.75	1.35	61	1.05	21.73	-115		
1630	30	"	3.60	1.50	6.75	1.33	50.2	1.00	21.99	-117		
1635	35	"	3.60	1.75	6.74	1.32	47.4	0.95	22.37	-118		
1640	40	"	3.60	2.0	6.74	1.33	46.8	0.92	22.41	-119	↓	↓
1645	SAMPLE											

Constituents Sampled	Container	Number	Preservative
8260 VOC	40mL VOA	3	HCl
1,4 Dioxane 8270 SIM	1L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Behind 10 Arbor

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: ___

Well Locked at Departure: ___

Key Number To Well: ___

ARCADIS
Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 Well ID MW-16D Date 7/21/22

Project Name/Location: Northern Circuits Weather 85, Sunny

Measuring Pt. Description: TOC Screen Setting (ft-bmp): 27-30 Casing Diameter (in.): 2" Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 4.87' Total Depth (ft-bmp): 29.27 Water Column/ Gallons in Well: 24.4/3.97

MP Elevation: NA Pump Intake (ft-bmp): ~28.0 Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off: 1043/1126 Volumes Purged: 1

Sample Time: Label 1130 Start 1126 End 1133 Replicate/ Code No. 1 Sampled by DM

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Purged gal	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1045	5	200	5.12	0.25	6.84	1.70	136	2.00	16.84	-156	Cloudy	None
1050	10	11	5.18	0.5	6.69	1.73	111	1.05	16.78	-167	"	"
1055	15	"	5.83	0.75	6.67	1.75	102	1.06	16.48	-168	"	"
1100	20	"	5.30	1.0	6.68	1.77	92.8	1.05	16.27	-169	Clear	"
1105	25	"	5.34	1.25	6.69	1.81	83.4	1.05	15.99	-170	"	"
1110	30	"	5.36	1.5	6.70	1.88	44.9	1.05	16.33	-171	"	"
1115	35	"	5.37	1.75	6.72	1.92	29.7	1.06	16.19	-172	"	"
1120	40	"	5.37	2.0	6.74	1.90	29.2	1.05	16.27	-173	"	"
1125	45	"	5.37	2.25	6.75	1.99	27.8	1.03	16.42	-173	"	"

Constituents Sampled	Container	Number	Preservative
VOC			
1,4 Dioxane			
Calcium			
Nitrate + Sulfate			
TOC			
Alk			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Grass

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053684 Well ID MW-16S Date 7-24-22

Project Name/Location: Northern Crawls Weather 80 Sunny

Measuring Pt. Description TOC Screen Setting (ft-bmp) 7-17' Casing Diameter (in.) 2" Well Material ☒ PVC ☐ SS

Static Water Level (ft-bmp) 3.33' Total Depth (ft-bmp) 16.88' Water Column/ Gallons in Well 13.55/2.20

MP Elevation NA Pump Intake (ft-bmp) ~14' Purge Method: Peri Centrifugal Submersible Other Sample Method: Low Flow

Pump On/Off 0927 Volumes Purged

Sample Time: Label 1015 Start Replicate/ Code No. End Sampled by DRM

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0930		200	4.15	0.25	7.29	0.874	113	5.40	17.33	46	Cloudy	None
0935		200	4.80	0.3	6.70	0.836	44.6	4.30	17.24	52	Clear	
0940		"	5.14	0.73	6.61	0.828	23.8	3.83	16.59	54		
0945		"	5.17	1.0	6.57	0.827	20.0	3.75	16.67	60		
0950		"	5.20	1.25	6.55	0.832	16.4	3.79	16.63	64		
0955		"	5.22	1.5	6.55	0.835	15.0	3.69	16.66	67		
1000		"	5.23	1.75	6.55	0.837	10.9	3.65	16.62	68		
1005		"	5.23	2.0	6.56	0.839	13.9	3.63	16.72	71		
1010		"	3.23	2.25	6.56	0.840	12.7	3.62	16.74	73		
1015	Complete											

Constituents Sampled	Container	Number	Preservative
VOC			
1,4 Dioxane			
Calcium			
Nitrate + Sulfate			
TOC			
ALK			

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: Grass between 8+10 Nitro

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

ARCADIS

Groundwater Sampling Form

Project No. 30053689 Well ID MW-11S Page 1 of 1

Project Name/Location: Northern Circuits Date 7/28/22

Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather 87°F overcast

Static Water Level (ft-bmp) 3.48 Total Depth (ft-bmp) 21.97 Water Column/ Gallons in Well 3.01 Well Material X PVC ___ SS

MP Elevation — Pump Intake (ft-bmp) — Purge Method: Peristaltic/low-flow

Pump On/Off 1334/1500 Volumes Purged 17 L Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Sample Time: Label 1447 Start ___ End ___ Replicate/ Code No. N/A

Sampled by Josh Singh

PID: ___ Water Quality Meter Type and ID: Horiba U5000

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1335	1	235	4.38	0	7.99	0.525	41.5	0.36	29.74	-72	Clear	None
1340	6	230	4.86		7.43	0.559	42.2	0.25	26.61	-91	"	"
1345	11	230	5.27		7.09	0.597	43.1	0.19	23.29	-108	"	"
1350	16	230	5.60		7.02	0.620	34.0	0.15	21.53	-116	"	"
1355	21	"	6.05	5	6.92	0.648	29.3	0.11	19.68	-122	"	"
1400	26	"	6.20		6.96	0.661	25.1	0.09	18.94	-125		
1405	31	"	6.45		7.00	0.670	21.4	0.07	18.50	-131	"	"
1410	36	"	6.61		7.03	0.675	19.0	0.15	18.09	-133	"	"
1415	41	"	6.73	10	7.05	0.681	17.5	0.47	17.71	-136	"	"
1420	46	"	6.97		7.07	0.684	12.3	0.22	17.42	-137	"	"
1425	51	"	7.13		7.09	0.689	9.51	0.07	17.30	-135	"	"
1430	56	"	7.24		7.11	0.690	8.39	0.04	17.27	-134	"	"
1435	61	"	7.30	15	7.13	0.693	8.15	0.01	17.25	-133	"	"
1440	66	"	7.40		7.10	0.700	8.51	0.01	17.26	-133	"	"
1445	71	230	7.41	17.0	7.11	0.705	9.11	0.01	17.27	-133	"	"
1447	SAMPLE											

Constituents Sampled	Container	Number	Preservative
Calcium			
Nitrate + Sulfate			
TOC			
Alkalinity			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Grass, N of 8 Adler Dr.

Condition of Well: Good

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: /

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 Well ID MW-12S

Date 7/28/22

Project Name/Location: Northern Circuit

Weather 87°F clear

Well Material X PVC ___ SS

Measuring Pt. Description: TOC

Screen Setting (ft-bmp): /

Casing Diameter (in.): 2

Static Water Level (ft-bmp): 3.55

Total Depth (ft-bmp): 22.23

Water Column/ Gallons in Well: 3.04

MP Elevation: /

Pump Intake (ft-bmp): /

Purge Method: Peristaltic/Low Flow

Centrifugal ___

Submersible ___

Other ___

Sample Method: Low Flow

Pump On/Off: 1534/1615

Volumes Purged: 12 L

Sample Time: Label 1607

~~Start~~ ___

~~End~~ ___

Replicate/ Code No.: N/A

Sampled by: Josh Sing

PID: 0.0

Water Quality Meter Type and ID: Horiba U5000

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1535	1	350	4.20	0	6.93	0.997	14.7	0.08	23.39	-84	Clear	None
1540	6	350	5.64	2	6.87	1.04	12.0	0.03	23.03	-97	"	"
1545	11	350	6.59	4	6.84	1.08	11.8	0.01	22.22	-103	"	"
1550	16	350	7.48	6	6.83	1.09	10.5	0.01	21.99	-106	"	"
1555	21	350	7.77	8	6.84	1.11	9.84	0.01	21.44	-107	"	"
1600	26	350	7.80	10	6.82	1.13	9.95	0.01	21.51	-106	"	"
1605	31	350	7.82	12	6.82	1.14	9.75	0.01	21.40	-107	"	"
1607	SAMPLE											

Constituents Sampled	Container	Number	Preservative
Calcium			
Nitrate + Sulfate			
TOC			
Alkalinity			

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Parking lot East of 8 adler Dr.

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well:

ARCADIS
Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 | Well ID MW-6D | Date 7/29/22

Project Name/Location: NoAhon Circuits | Weather 70°F clear

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): — | Casing Diameter (in.): 2 | Well Material: X PVC, ___ SS

Static Water Level (ft-bmp): ~~X~~ 5.25 | Total Depth (ft-bmp): 32.92 | Water Column/ Gallons in Well: 4.5

MP Elevation: — | Pump Intake (ft-bmp): — | Purge Method: Peristaltic/ Low Flow | Sample Method: Low Flow

Pump On/Off: 0829/0930 | Volumes Purged: ~17 L | Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 0921 | ~~Start~~ ~~End~~ | Replicate/ Code No.: N/A | Sampled by: Josh Sling

PID: 0.0 | Water Quality Meter Type and ID: Horiba U5000

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0830	1	325	5.46		7.86	0.280	67.6	3.88	22.88	121	Clear	None
0835	6	"	5.88		7.24	0.300	36.2	2.81	18.62	137	"	"
0840	11	"	6.21		7.29	0.312	28.4	2.12	18.54	137	"	"
0845	16	"	6.25	5	7.27	0.339	17.9	2.07	17.55	139	"	"
0850	21	"	6.27		7.22	0.340	15.4	1.97	17.69	137	"	"
0855	26	"	6.29		7.18	0.361	14.9	1.76	17.68	110	"	"
0900	31	"	6.30	10	7.05	0.562	15.7	0.25	17.70	-38	"	"
0905	36	"	6.30		7.02	0.571	16.0	0.14	17.94	-71	"	"
0910	41	"	6.30		7.01	0.578	14.1	0.07	17.59	-84	"	"
0915	46	"	6.30	15	7.02	0.585	12.9	0.05	17.55	-88	"	"
0920	51	"	6.30	16.5	7.02	0.586	14.4	0.04	17.53	-90	"	"
0921	SAMPLE											

Constituents Sampled	Container	Number	Preservative
Calcium			
Nitrate + Sulfate			
TOC			
Alkalinity			

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Large grass West of 8 Adler Pl | Well Locked at Arrival: yes

Condition of Well: Good | Well Locked at Departure: yes

Well Completion: (Flush Mount) / Stick Up | Key Number To Well:

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. 30053689 | Well ID MW-65 | Date 7/29/22

Project Name/Location: Northern Crowns | Weather 72°F clear

Measuring Pt. Description: ~~TOC~~ TOC | Screen Setting (ft-bmp): — | Casing Diameter (in.): 2 | Well Material: X PVC, ___ SS

Static Water Level (ft-bmp): 4.09 | Total Depth (ft-bmp): 22.58 | Water Column/ Gallons in Well: 3.01

MP Elevation: — | Pump Intake (ft-bmp): — | Purge Method: Peristaltic/low flow | Sample Method: Low Flow

Pump On/Off: 0935/1040 | Volumes Purged: — | Centrifugal / Submersible / Other

Sample Time: Label 1036 | ~~Start~~ ~~End~~ | Replicate/ Code No. N/A | Sampled by Josh Singer

PID: — | Water Quality Meter Type and ID: Horiba U5000

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0940	1		5.76		8.17	0.239	16.2	0.97	19.26	-21	Clear	None
0945	6		7.05		8.43	0.226	15.7	0.83	17.21	13	"	"
0950	11		8.91		8.56	0.225	18.1	0.72	17.32	5	"	"
0955	16		9.20	5	8.55	0.207	22.1	2.10	17.70	8	"	"
1000	21		9.49		8.58	0.209	19.5	1.09	17.82	25	"	"
1005	26		10.11		8.21	0.253	16.3	0.21	17.75	15	"	"
1010	31		10.64		7.97	0.313	12.9	0.13	17.49	-35	"	"
1015	36		11.21	10	7.83	0.379	12.5	0.10	17.25	-89	"	"
1020	41		11.84		7.70	0.418	10.9	0.06	17.21	-125	"	"
1025	46		12.03		7.68	0.431	10.1	0.06	17.19	-135	"	"
1030	51		12.06		7.71	0.433	9.44	0.06	17.18	-136	"	"
1035	56		12.07	14	7.65	0.436	9.59	0.05	17.20	-136	"	"
1036	SAMPLE											

Constituents Sampled	Container	Number	Preservative
Calcium			
Nitrate + Sulfate			
TOC			
Alkalinity			

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: | Well Locked at Arrival:

Condition of Well: | Well Locked at Departure:

Well Completion: Flush Mount / Stick Up | Key Number To Well:

Appendix F

Site Survey Drawing

XREFS: NONE

PROJECT NUMBER: 22.2252



NYS GRID CENTRAL ZONE NAD 83

LEGEND

- SB-52 — SOIL BORING
- MW-16S — MONITOR WELL
- MNS 51 — MAGNETIC NAIL SET

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BAR SCALE

100 0 50 100 200

1 inch = 100 ft.

DAVID J. UHRINEC, PLS
P.L.S. NO. 050052

STATE OF NEW YORK · DAVID JOSEPH UHRINEC · 050052 · LICENSED LAND SURVEYOR

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				

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CHECKED : dju
PROJ. NO : 22.2252
SCALE : 1"=100'
DATE : 07/27/2022

JULY 2022 SAMPLE SURVEY

NEW YORK STATE DEPARTMENT OF CONSERVATION

NORTHERN CIRCUITS - SITE NO. 734124

6 ALDER DRIVE, EAST SYRACUSE, NEW YORK

TOWN OF DEWITT — ONONDAGA COUNTY, NEW YORK

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SHEET 1 OF 1

DWG. NO: 22-0526

CAD DWG. FILE NAME: C:\Temp Copies Off Server\22.2252 Northen Cicuits Remote Copy\Survey\CTM Former Northern Circuits.dwg

CAD DWG. FILE NAME: CTM Former Northern Circuits.dwg

Appendix G

Waste Manifests

VEOLIA
ENVIRONMENTAL SERVICES

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	NYD049324874	1	(877) 818-0087	ZZ 01026357

5. Generator's Name and Mailing Address
NYSDEC FORMER NORTHERN CIRCUIT
6 ADLER DRIVE
EAST SYRACUSE, NY 13057
Generator's Phone: 315 426-7527

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
FREEHOLD CARTAGE INC
U.S. EPA ID Number: NJD054126164

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.
4301 INFIRMARY ROAD
WEST CARROLLTON, OH 45449
Facility's Phone: 937 859-6301
U.S. EPA ID Number: OHD093945293

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes		
	1. NON RCRA AND DOT NON REGULATED SOLID, (SOIL)	28	DM	18,200	P	NONE		
						L		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS + NEED C.O.D.'s + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) A: SRRLFSOLID-NH

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Josh Sinay
Signature: [signature]
Month: 08 Day: 29 Year: 22

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Shipment

Transporter 1 Printed/Typed Name: OWEN MOSS
Signature: [signature]
Month: 08 Day: 29 Year: 22

Transporter 2 Printed/Typed Name: BRUCE HULL
Signature: [signature]
Month: 9 Day: 7 Year: 22

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Shipping Document Tracking Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in item 18a

Printed/Typed Name: Kayla Franklin
Signature: [signature]
Month: 9 Day: 9 Year: 22

DESIGNATED FACILITY TO GENERATOR

VEOLIA
ENVIRONMENTAL SERVICES

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	NYD049324874	1	(877) 818-0087	ZZ 01029068

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC FORMER NORTHERN CIRCUIT
6 ADLER DRIVE
EAST SYRACUSE, NY 13057
Generator's Phone: 315 426-7527

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
FREEHOLD CARTAGE INC
U.S. EPA ID Number: NJD054126164

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.
4301 INFIRMARY ROAD
WEST CARROLLTON, OH 45449
Facility's Phone: 937 859-6101
U.S. EPA ID Number: ORD093945293

8a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes		
	1. NON RCRA AND DOT NON REGULATED LIQUID, (WATER)	17	DM	7650	P	NONE		
						L		
	2. NON RCRA AND DOT NON REGULATED SOLID, (DEBRIS)	2	DM	350	P	NONE		
						L		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
EZ Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W:1110913 A: SRRLFLQ-NS 2) W:1110911 A:SRRLFSOLID-NE

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: x Josh Sinay
Signature:
Month: 08 Day: 29 Year: 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Shipment

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
CEMILA JAREMKA		08	29	22
Transporter 2 Printed/Typed Name: Henry Patterson	Signature	9	6	22

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Shipping Document Tracking Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141		

20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a

Printed/Typed Name: Kayla Franklin
Signature: Kayla Franklin
Month: 9 Day: 14 Year: 22

DESIGNATED FACILITY TO GENERATOR

VEOLIA
ENVIRONMENTAL SERVICES

SHIPPING DOCUMENT (Continuation Sheet)	21. Generator ID Number	22. Page	23. Shipping Document Tracking Number
			220102906B

24. Generator's Name: NYSDEC Former Northern Circuit

25. Transporter 3 Company Name: Goulet Trucking Inc — U.S. EPA ID Number: MAC300006038

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Codes

Transportation Purposes Only

32. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTER

33. Transporter 2 Acknowledgment of Receipt of Shipment
Printed/Typed Name: Mike McGrath — Signature — Month 9 Day 12 Year 22

34. Transporter _____ Acknowledgment of Receipt of Shipment
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

DESIGNATED FACILITY TO GENERATOR

Appendix H

Data Usability Summary Reports

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0276
SAMPLING DATE(S):	July 5, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-54S	22G0276-01	X
SB-55S	22G0276-02	X
SB-56S	22G0276-03	X
SB-53S	22G0276-04	X
DUP-070522	22G0276-05	X
Trip Blank	22G0276-06	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0276

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 6/9/2020 on instrument GCMSVOA2 was 0.00377 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/8/22 at 09:43 on instrument GCMSVOA2 was 0.00356 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/8/22 at 09:43 on instrument GCMSVOA2 exceeded the 20% QC limit for the following compounds:

Acetone	-29.2%
Bromomethane	40.3%
Chloromethane	-56.3%
1,2-dibromo-3-chloropropane	-29.4%
Trans-1,4-dichloro-2-butene	-20.1%
1,2-dichloropropane	20.8%
Naphthalene	-37.1%
Tetrachloroethylene	22.3%
1,2,3-trichlorobenzene	-26.6%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections reported in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) were below the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Acetone	67.2%	69.6%
1,2-dibromo-3-chloropropane	69.8%	
1,2,3-trichlorobenzene	69.9%	

The positive and non-detect results for these compounds in the SDG samples were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (SB-54S / DUP-070522) was identified as part of this SDG. There were no calculable Relative Percent Differences (RPDs). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-54S | Sampled: 7/5/2022 12:10

Sample ID: 22G0276-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF

ALH 12/30/22

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-54S | Sampled: 7/5/2022 12:10

Sample ID: 22G0276-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	81.0	70-130		7/8/22 12:19
Toluene-d8	99.3	70-130		7/8/22 12:19
4-Bromofluorobenzene	99.1	70-130		7/8/22 12:19

ALH 12/30/22

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-55S | Sampled: 7/5/2022 13:00

Sample ID: 22G0276-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.9 J	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-55S | Sampled: 7/5/2022 13:00

Sample ID: 22G0276-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	77.7	70-130		7/8/22 12:46
Toluene-d8	100	70-130		7/8/22 12:46
4-Bromofluorobenzene	99.1	70-130		7/8/22 12:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-56S | Sampled: 7/5/2022 14:10

Sample ID: 22G0276-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.4 J	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
cis-1,2-Dichloroethylene	0.80	1.0	0.15	µg/L	1	J	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-56S | Sampled: 7/5/2022 14:10

Sample ID: 22G0276-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.8	70-130		7/8/22 13:12
Toluene-d8	99.1	70-130		7/8/22 13:12
4-Bromofluorobenzene	100	70-130		7/8/22 13:12

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-53S | Sampled: 7/5/2022 15:50

Sample ID: 22G0276-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	11 J	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Dichlorodifluoromethane (Freon 12)	0.70	2.0	0.19	µg/L	1	J	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-53S | Sampled: 7/5/2022 15:50

Sample ID: 22G0276-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.7	70-130		7/8/22 13:38
Toluene-d8	99.0	70-130		7/8/22 13:38
4-Bromofluorobenzene	97.3	70-130		7/8/22 13:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: DUP-070522 | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.6 J	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloroethane	ND UJ	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: DUP-070522 | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.4	70-130		7/8/22 14:04
Toluene-d8	100	70-130		7/8/22 14:04
4-Bromofluorobenzene	98.0	70-130		7/8/22 14:04

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: Trip Blank | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichloropropane	ND UJ	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: Trip Blank | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.8	70-130		7/8/22 11:53
Toluene-d8	101	70-130		7/8/22 11:53
4-Bromofluorobenzene	98.6	70-130		7/8/22 11:53

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DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0489
SAMPLING DATE(S):	July 8, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-55I	22G0489-01	X
SB-55D	22G0489-02	X
Trip Blank	22G0489-03	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0489

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 7/7/22 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 7/8/22 at 06:17 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/11/22 at 10:27 on instrument

GCMSVOA5 was 0.0018 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/11/22 at 10:27 on instrument GCMSVOA5 exceeded the 20% QC limit for the following compounds:

Bromoform	25.6%
Carbon disulfide	32.8%
Methyl acetate	43.9%
Freon 113	22.9%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were detections reported in the associated trip blank for the following compounds:

Acetone	7.0 ug/L
Trans-1,2-dichloroethylene	0.38 ug/L
Styrene	0.11 ug/L
Toluene	1.4 ug/L

Since the bank result for toluene was greater than the RL, the positive toluene result for sample SB-55I, which was less than the RL, was qualified as undetected (U) with the result being raised to the RL. Since there were no positive results for the other listed compounds in the samples, no further data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) exceeded the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Methyl acetate	144%	146%

Carbon disulfide 136%

The RPD for chloromethane at 26.7% also exceeded the QC limit. Since there were no positive results for these compounds in the SDG samples, no data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55I | Sampled: 7/8/2022 10:30

Sample ID: 22G0489-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromodichloromethane	0.80	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromoform	1.2 J	2.0	0.38	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
2-Butanone (MEK)	3.3	20	1.6	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chlorobenzene	0.57	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chlorodibromomethane	0.98	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloroform	2.0	2.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichlorobenzene	0.42	1.0	0.12	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,4-Dichlorobenzene	0.33	1.0	0.13	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Toluene	1.0 ~~0.69~~ --U	1.0	0.22	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55I | Sampled: 7/8/2022 10:30

Sample ID: 22G0489-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1	UJ	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		7/11/22 14:35
Toluene-d8	97.2	70-130		7/11/22 14:35
4-Bromofluorobenzene	97.7	70-130		7/11/22 14:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55D | Sampled: 7/8/2022 14:20

Sample ID: 22G0489-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromoform	ND UJ	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1-Dichloroethane	0.20	1.0	0.14	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55D | Sampled: 7/8/2022 14:20

Sample ID: 22G0489-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		7/11/22 15:03
Toluene-d8	98.3	70-130		7/11/22 15:03
4-Bromofluorobenzene	98.0	70-130		7/11/22 15:03

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/8/2022 12:00

Sample ID: 22G0489-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.0	50	2.0	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromoform	ND UJ	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
trans-1,2-Dichloroethylene	0.38	1.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Styrene	0.11	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Toluene	1.4	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/8/2022 12:00

Sample ID: 22G0489-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		7/11/22 12:44
Toluene-d8	98.6	70-130		7/11/22 12:44
4-Bromofluorobenzene	97.9	70-130		7/11/22 12:44

ALH 12/30/22

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0490
SAMPLING DATE(S):	July 7, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-53I	22G0490-01	X
SB-53D	22G0490-02	X
Trip Blank	22G0490-03	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0490

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 7/7/22 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 7/8/22 at 06:17 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/11/22 at 10:27 on instrument

GCMSVOA5 was 0.0018 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/11/22 at 10:27 on instrument GCMSVOA5 exceeded the 20% QC limit for the following compounds:

Bromoform	25.6%
Carbon disulfide	32.8%
Methyl acetate	43.9%
Freon 113	22.9%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were detections reported in the associated trip blank for the following compounds:

Acetone	2.8 ug/L
Chloroform	0.18 ug/L
Methylene chloride	0.75 ug/L

Since there were no positive results for the other listed compounds in the samples, no further data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) exceeded the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Methyl acetate	144%	146%
Carbon disulfide		136%

The RPD for chloromethane at 26.7% also exceeded the QC limit. Since there were no positive

results for these compounds in the SDG samples, no data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53I | Sampled: 7/7/2022 10:15

Sample ID: 22G0490-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromoform	ND UJ	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloroethane	0.73	2.0	0.32	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1-Dichloroethane	0.35	1.0	0.14	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
cis-1,2-Dichloroethylene	0.34	1.0	0.15	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53I | Sampled: 7/7/2022 10:15

Sample ID: 22G0490-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		7/11/22 15:31
Toluene-d8	97.7	70-130		7/11/22 15:31
4-Bromofluorobenzene	97.9	70-130		7/11/22 15:31

ALH 12/30/22

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53D | Sampled: 7/7/2022 15:20

Sample ID: 22G0490-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromoform	ND UJ	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chlorobenzene	0.11	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1-Dichloroethane	5.8	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
4-Methyl-2-pentanone (MIBK)	12	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53D | Sampled: 7/7/2022 15:20

Sample ID: 22G0490-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NDUJ	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		7/11/22 15:58
Toluene-d8	97.6	70-130		7/11/22 15:58
4-Bromofluorobenzene	96.8	70-130		7/11/22 15:58

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/7/2022 12:00

Sample ID: 22G0490-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.8	50	2.0	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromoform	ND UJ	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloroform	0.18	2.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methylene Chloride	0.75	5.0	0.23	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/7/2022 12:00

Sample ID: 22G0490-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1	UJ	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.8	70-130		7/11/22 13:12
Toluene-d8	98.2	70-130		7/11/22 13:12
4-Bromofluorobenzene	96.4	70-130		7/11/22 13:12

ALH 12/30/22

VALIDATA
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(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0669
SAMPLING DATE(S):	July 11, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-54I	22G0669-01	X
SB-54D	22G0669-02	X
Trip Blank	22G0669-03	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0669

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 7/7/22 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 7/8/22 at 06:17 on instrument GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/14/22 at 07:22 on instrument

GCMSVOA5 was 0.0017 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/14/22 at 07:22 on instrument GCMSVOA5 exceeded the 20% QC limit for the following compounds:

Carbon disulfide	47.1%
Freon 12	24.2%
Hexachlorobutadiene	-21.6%
Methyl acetate	37.3%
Freon 113	33.9%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were detections reported in the associated trip blank for the following compounds:

Acetone	7.5 ug/L
Chloroform	0.22 ug/L
Trans-1,2-dichloroethylene	0.19 ug/L
Toluene	1.1 ug/L

Since the blank result for acetone was less than the RL, the positive acetone results for the two field samples, which were less than the RL, were qualified as undetected (U) with the result being raised to the RL. Since there were no positive results for the other listed compounds in the samples, no further data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) exceeded the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Carbon disulfide	144%	146%
Methyl acetate	141%	152%
Freon 113	132%	

Since there were no positive results for these compounds in the SDG samples, no data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54I | Sampled: 7/11/2022 11:10

Sample ID: 22G0669-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	50 ~~10~~ U	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
sec-Butylbenzene	0.19	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Dichlorodifluoromethane (Freon 12)	ND UJ	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54I | Sampled: 7/11/2022 11:10

Sample ID: 22G0669-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Hexachlorobutadiene	ND UJ	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Isopropylbenzene (Cumene)	0.16	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
p-Isopropyltoluene (p-Cymene)	0.13	1.0	0.097	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
n-Propylbenzene	0.20	1.0	0.086	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,4-Trimethylbenzene	2.7	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3,5-Trimethylbenzene	0.83	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
m+p Xylene	0.81	2.0	0.46	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
o-Xylene	0.85	1.0	0.23	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/14/22 13:20
Toluene-d8	102	70-130		7/14/22 13:20
4-Bromofluorobenzene	100	70-130		7/14/22 13:20

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54D | Sampled: 7/11/2022 14:55

Sample ID: 22G0669-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	50 ~~18~~ U	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Dichlorodifluoromethane (Freon 12)	ND UJ	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54D | Sampled: 7/11/2022 14:55

Sample ID: 22G0669-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Hexachlorobutadiene	ND	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		7/14/22 13:47
Toluene-d8	101	70-130		7/14/22 13:47
4-Bromofluorobenzene	102	70-130		7/14/22 13:47

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: Trip Blank | Sampled: 7/11/2022 13:00

Sample ID: 22G0669-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.5	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloroform	0.22	2.0	0.17	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Dichlorodifluoromethane (Freon 12)	ND UJ	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,2-Dichloroethylene	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: Trip Blank | Sampled: 7/11/2022 13:00

Sample ID: 22G0669-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Hexachlorobutadiene	ND UJ	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Toluene	1.1	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/14/22 11:30
Toluene-d8	99.0	70-130		7/14/22 11:30
4-Bromofluorobenzene	102	70-130		7/14/22 11:30

ALH 12/30/22

VALIDATA
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DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0762
SAMPLING DATE(S):	July 13, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-56D	22G0762-01	X
Trip Blank	22G0762-02	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0762

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 6/9/2020 on instrument GCMSVOA2 was 0.00377 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/15/22 at 09:01 on instrument GCMSVOA2 was 0.00378 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/15/22 at 09:01 on instrument GCMSVOA2 exceeded the 20% QC limit for the following compounds:

Acetone	-33.1%
Bromomethane	26.8%
Chloromethane	-58.4%
1,2-dibromo-3-chloropropane	-33.6%
Naphthalene	-43.4%
Tetrachloroethylene	20.4%
1,2,3-trichlorobenzene	-33.4%
1,2,4-trichlorobenzene	-20.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

Acetone (5.1 ug/L) was reported in the associated trip blank for this SDG. Since the acetone result for the associated sample was greater than the RL and the blank concentration, no data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recover (%R) of 1,2,3-trichlorobenzene at 69.8% for the MSD sample was below the QC limits. The non-detect results for this compound in the SDG samples were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0762

Date Received: 7/14/2022

Field Sample #: SB-56D | Sampled: 7/13/2022 13:25

Sample ID: 22G0762-01

Sample Matrix: Ground Water

Sample Flags: PR-08, Z-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	11 J	100	4.1	µg/L	2	V-05, J	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Bromomethane	ND UJ	10	3.1	µg/L	2	V-34	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Chloromethane	ND UJ	4.0	1.0	µg/L	2	V-05, V-34	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	10	1.6	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1-Dichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1-Dichloroethylene	ND	2.0	0.28	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
cis-1,2-Dichloroethylene	ND	2.0	0.29	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
trans-1,2-Dichloroethylene	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD

ALH 1/3/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0762

Date Received: 7/14/2022

Field Sample #: SB-56D | Sampled: 7/13/2022 13:25

Sample ID: 22G0762-01

Sample Matrix: Ground Water

Sample Flags: PR-08, Z-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,4-Dioxane	ND UJ	100	41	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Naphthalene	NDUJ	4.0	0.49	µg/L	2	V-05	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Tetrachloroethylene	ND UJ	2.0	0.37	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2,3-Trichlorobenzene	ND UJ	10	0.61	µg/L	2	V-05	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2,4-Trichlorobenzene	ND UJ	2.0	0.50	µg/L	2	V-05	SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Trichloroethylene	ND	2.0	0.38	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
Vinyl Chloride	ND	4.0	0.42	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	7/15/22	7/15/22 15:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.6	70-130		7/15/22 15:34
Toluene-d8	100	70-130		7/15/22 15:34
4-Bromofluorobenzene	101	70-130		7/15/22 15:34

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Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0762

Date Received: 7/14/2022

Field Sample #: Trip Blank | Sampled: 7/13/2022 14:00

Sample ID: 22G0762-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.1 J	50	2.0	µg/L	1	V-05, J	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0762

Date Received: 7/14/2022

Field Sample #: Trip Blank | Sampled: 7/13/2022 14:00

Sample ID: 22G0762-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Toluene	0.66	1.0	0.22	µg/L	1	J	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2,4-Trichlorobenzene	NDUJ	1.0	0.25	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 11:38	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.8	70-130		7/15/22 11:38
Toluene-d8	102	70-130		7/15/22 11:38
4-Bromofluorobenzene	103	70-130		7/15/22 11:38

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DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G0764
SAMPLING DATE(S):	July 12, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-56I	22G0764-01	X
SB-56IMS	22G0764-01MS	X
SB-56IMSD	22G0764-01MSD	X
Trip Blank	22G0764-02	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G0764

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 6/9/2020 on instrument GCMSVOA2 was 0.00377 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 7/15/22 at 09:01 on instrument GCMSVOA2 was 0.00378 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 7/15/22 at 09:01 on instrument GCMSVOA2 exceeded the 20% QC limit for the following compounds:

Acetone	-33.1%
Bromomethane	26.8%
Chloromethane	-58.4%
1,2-dibromo-3-chloropropane	-33.6%
Naphthalene	-43.4%
Tetrachloroethylene	20.4%
1,2,3-trichlorobenzene	-33.4%
1,2,4-trichlorobenzene	-20.7%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

Acetone (4.4 ug/L) and toluene (0.87 ug/L) were reported in the associated trip blank for this SDG. Since the acetone blank result was less than the RL, the positive acetone result for the sample, which was less than the RL, was qualified as undetected (U) with the result being raised to the RL. Since the toluene result for the sample was non-detect, no data qualification was necessary for this compound.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recovery (%R) of 1,2,3-trichlorobenzene at 69.8% for the MSD sample was below the QC limits. The non-detect results for this compound in the SDG samples were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses were performed using sample SB-56I. The Percent Recoveries (%Rs) were outside the QC limits for the following compounds:

Compound	MS, %R	MSD, %R
Acetone	59.7%	66.0%
Chloromethane	44.8%	45.0%
1.2.3-trichlorobenzene	65.3%	68.2%
Bromomethane		134%
Trans-1,4-dichloro-2-butene		67.6%
Naphthalene		64.0%

Since the parent sample result for bromomethane was non-detect, no data qualification was necessary for this compound. The positive and non-detect results for the other listed compounds in the parent sample were qualified as estimated (J) and (UJ).

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0764

Date Received: 7/14/2022

Field Sample #: SB-56I | Sampled: 7/12/2022 13:00

Sample ID: 22G0764-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	~~27~~ 50 UJ	50	2.0	µg/L	1	V-05, J	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
trans-1,4-Dichloro-2-butene	ND UJ	2.0	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1-Dichloroethane	1.8	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
cis-1,2-Dichloroethylene	0.97	1.0	0.15	µg/L	1	J	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0764

Date Received: 7/14/2022

Field Sample #: SB-56I | Sampled: 7/12/2022 13:00

Sample ID: 22G0764-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Tetrahydrofuran	1.1	10	0.49	µg/L	1	J	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2,4-Trichlorobenzene	ND UJ	1.0	0.25	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:57	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.0	70-130		7/15/22 12:57
Toluene-d8	101	70-130		7/15/22 12:57
4-Bromofluorobenzene	100	70-130		7/15/22 12:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0764

Date Received: 7/14/2022

Field Sample #: Trip Blank | Sampled: 7/12/2022 13:20

Sample ID: 22G0764-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.4 J	50	2.0	µg/L	1	V-05, J	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Chloromethane	ND UJ	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0764

Date Received: 7/14/2022

Field Sample #: Trip Blank | Sampled: 7/12/2022 13:20

Sample ID: 22G0764-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Toluene	0.87	1.0	0.22	µg/L	1	J	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2,4-Trichlorobenzene	ND UJ	1.0	0.25	µg/L	1	V-05	SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/15/22	7/15/22 12:04	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	76.1	70-130		7/15/22 12:04
Toluene-d8	101	70-130		7/15/22 12:04
4-Bromofluorobenzene	101	70-130		7/15/22 12:04

ALH 1/3/23

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014, USEPA Region II data validation SOP HW-22 Rev. 5, Validating Volatile Organic Compounds by GC/MS, SW 846 Method 8270D, Dec. 2010, USEPA Region II data validation SOP HW-3a, Rev.14, Validating Metals ISMO2.2, ICP-AES Data Validation, Sept. 2016,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOC), Metals, Anions, Alkalinity, Total Organic Carbon (TOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G1683
SAMPLING DATE(S):	July 28, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC*
MW-19D	22G1683-01	X	X
MW-19S	22G1683-02	X	X
MW-19SMS	22G1683-02MS	X	X
MW-19SMSD	22G1683-02MSD	X	X
MW-20S	22G1683-03	X	X
MW-20D	22G1683-04	X	X
MW-17S	22G1683-07	X	X
DUP-072822	22G1683-08	X	X
Trip Blank	22G1683-09	X	

Client Sample ID	Laboratory ID	Metals**	Anions***
MW-19S	22G1683-02	X	X
MW-19SMD	22G1683-02MD		X
MW-19SMS	22G1683-02MS	X	X
MW-19SMSD	22G1683-02MSD	X	
MW-20S	22G1683-03	X	X
MW-20D	22G1683-04	X	X
MW-11S	22G1683-05	X	X
MW-12S	22G1683-06	X	X
DUP-072822	22G1683-08	X	X

Client Sample ID	Laboratory ID	Alkalinity	TOC
MW-19S	22G1683-02	X	X
MW-19SMD	22G1683-02MD	X	
MW-19SMS	22G1683-02MS	X	X
MW-19SMSD	22G1683-02MSD		X
MW-20S	22G1683-03	X	X
MW-20D	22G1683-04	X	X
MW-11S	22G1683-05	X	X
MW-12S	22G1683-06	X	X
DUP-072822	22G1683-08	X	X

* SVOC – 1,4-dioxane only
** Metals – Calcium only
*** Anions – Nitrate and Sulfate

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G1683

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 6/9/2020 on instrument GCMSVOA2 was 0.00377 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 8/1/22 at 08:51 on instrument GCMSVOA2 was 0.00349 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 8/1/22 at 08:51 on instrument GCMSVOA2 exceeded the 20% QC limit for the following compounds:

bromochloromethane	33.6%
Bromomethane	47.5%
Chloromethane	-63.4%
1,2-dibromo-3-chloropropane	-32.8%
Methyl acetate	-20.4%
Naphthalene	-36.4%
1,2,3-trichlorobenzene	-26.1%
Freon 113	20.3%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections reported in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) were outside the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Chloromethane	38.0%	37.9%
1,2-dibromo-3-chloropropane	63.7%	64.2%
1,2,3-trichlorobenzene	68.7%	

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses were performed using sample MW19S. The Percent Recoveries (%Rs) for the following compounds were outside the QC limits:

Compound	LCS, %R	LCSD, %R
Bromochloromethane	140%	139%
Bromomethane	149%	155%
Chloromethane	46.1%	47.7%
1,2-dibromo-3-chloropropane	62.2%	65.9%
Naphthalene	59.8%	59.8%
1,2,3-trichlorobenzene	65.3%	65.6%
Freon 113	140%	140%

The non-detect results for chloromethane, 1,2-dibromo-3-chloropropane, naphthalene and 1,2,3-trichloropropane for the parent sample were qualified as estimated (UJ). Since the parent sample results for the other listed compounds were all non-detect, no further data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-20S / DUP-072822) was identified as part of this SDG. The calculable RPD for acetone at 6.9% and the calculable differences for chloroethane, Freon 12, cis-1,2-dichloroethylene and vinyl chloride were all within the QC limits. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

SEMIVOLATILE ORGANICS (SVOC)

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per SW 846 Method 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

The 11 days between sample collection and extraction for the re-extraction and analysis of sample DUP-072822 exceeded the 7-day QC limit. The positive result for the sample was qualified as estimated (J).

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

The Percent Recovery (%R) of 1,4-dioxane-d8 was 14.6% for sample DUP-072822, which was below the QC limits. The positive result for this sample was qualified as estimated (J).

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses were performed using sample MW19S. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-20S / DUP-072822) was identified as part of this SDG. The calculable RPD at 148% exceeded the QC limit. The positive results for the two samples were qualified as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

Based on the low surrogate recovery in the initial analysis, the lab reanalyzed sample DUP-072822 outside of holding times, but with the surrogate criteria met. Based on the holding times, the validator considers the initial analysis result to be of preferable data quality to the reanalysis of the sample.

All other CRQL criteria were met. No data qualification was necessary.

METALS

SUMMARY

I.) General:

The analyses for Total Metals were performed using SW-846 Method 6010D.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Initial and Continuing Calibration criteria were met. No data qualification was necessary.

V.) ICP CRDL Standard:

All ICP CRDL standards associated with the analytical sequence met QC criteria. No data qualification was necessary.

VI.) Blanks:

Preparation Blanks:

There were no detections in the associated preparation blank. No data qualification was necessary.

Calibration Blanks:

There were detections in the associated calibration blanks. No data qualification was necessary.

VII.) Interference Check Standards:

All Interference Check Standards criteria were me.t. NO data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis was performed using sample MW-19S. The parent sample result for calcium was greater than 4X the spike concentration, so the results were not considered meaningful. No data qualification was necessary.

X.) Serial Dilution:

Serial Dilution analysis data was not required for this SDG. No data qualification was necessary.

XI.) Field Duplicates:

One set of field duplicates (MW-20S / DUP-072822) was identified in this SDG. The calculable Relative Percent Difference (RPD) was 8.7%, which was within the QC limit. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

ANIONS

SUMMARY

I.) General:

The analyses for Anions were performed by Ion Chromatography according to EPA Method 300.0.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Initial and Continuing Calibration criteria were met. No data qualification was necessary.

V.) Blanks:

Calibration Blanks:

There were no detections in the associated calibration blanks. No data qualification was necessary.

Preparation Blanks:

There were no detections in the associated preparation blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Duplicate (MS / MD):

MS / MD analyses were performed using SDG sample MW-19S. The Percent Recovery (%R) for sulfate at 31.8% was below the QC limits. The positive sulfate result for the parent sample was qualified as estimated (J).

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

One set of field duplicate samples (MW-20S / DUP-072822) was identified as part of this SDG.

The only calculable Relative Percent Difference (RPD) was 0% for sulfate, which was within the QC limit. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

ALKALINITY

SUMMARY

I.) General:

The analyses for Alkalinity were performed according to Standards Method SM 2320.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

Calibration criteria were not required for this method. No data qualification was necessary.

V.) Blanks:

There were no detections in the associated blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Duplicate (MS / MD):

MS / MD analyses were performed using SDG sample MW-19S. All criteria were met. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

One set of field duplicate samples (MW-20S / DUP-072822) was identified as part of this SDG. The only calculable Relative Percent Difference (RPD) was 2.5%, which was within the QC limit.

No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

TOTAL ORGANIC CARBON (TOC)

SUMMARY

I.) General:

The analyses for Total Organic Carbon (TOC) were performed according to Standards Method 5310B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Calibration criteria were met. No data qualification was necessary.

V.) Blanks:

There were no detections in the blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using SDG sample MW-19S. All criteria were met. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

One set of field duplicate samples (MW-20S / DUP-072822) was identified as part of this SDG. The only calculable Relative Percent Difference (RPD) was 2.3%, which was within the QC limit. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	110	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.6	70-130		8/1/22 11:54
Toluene-d8	95.1	70-130		8/1/22 11:54
4-Bromofluorobenzene	104	70-130		8/1/22 11:54

ALH 12/30/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 12:56	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	15.6	15-110			8/8/22 12:56

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	78	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, MS-09, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, MS-09, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	MS-07A, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	MS-09, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.1	70-130		8/1/22 12:21
Toluene-d8	96.7	70-130		8/1/22 12:21
4-Bromofluorobenzene	103	70-130		8/1/22 12:21

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	2.3	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 13:16	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.5	15-110		8/8/22 13:16

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	330	0.50	0.11	mg/L	1	MS-19	SW-846 6010D	8/4/22	8/13/22 19:24	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	270	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 11:43	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 21:47	CB2
Sulfate	580 J	25	14	mg/L	25	MS-07	EPA 300.0	8/10/22	8/10/22 19:11	EC
Total Organic Carbon	2.1	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 16:37	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	15	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloroethane	1.1	2.0	0.32	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Dichlorodifluoromethane (Freon 12)	1.1	2.0	0.19	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
cis-1,2-Dichloroethylene	0.38	1.0	0.15	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Vinyl Chloride	1.0	2.0	0.21	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.2	70-130		8/1/22 12:47
Toluene-d8	96.6	70-130		8/1/22 12:47
4-Bromofluorobenzene	102	70-130		8/1/22 12:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 13:37	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.0	15-110			8/8/22 13:37

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	120	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:29	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	410	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 11:48	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:09	CB2
Sulfate	43	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:09	CB2
Total Organic Carbon	8.7	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 17:24	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	43	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloroethane	11	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.1	70-130		8/1/22 13:13
Toluene-d8	95.3	70-130		8/1/22 13:13
4-Bromofluorobenzene	105	70-130		8/1/22 13:13

ALH 12/30/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	37	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 18:58	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.0	15-110			8/8/22 18:58

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	630	5.0	1.1	mg/L	10		SW-846 6010D	8/4/22	8/15/22 22:41	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	300	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:12	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:31	CB2
Sulfate	280	50	27	mg/L	50		EPA 300.0	8/10/22	8/10/22 20:18	EC
Total Organic Carbon	2.0	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 17:40	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-11S | Sampled: 7/28/2022 14:47

Sample ID: 22G1683-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	90	0.50	0.11	mg/L	1	MS-19	SW-846 6010D	8/1/22	8/3/22 19:50	JLC

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-11S | Sampled: 7/28/2022 14:47

Sample ID: 22G1683-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	310	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:17	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:54	CB2
Sulfate	17	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:54	CB2
Total Organic Carbon	2.2	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 18:55	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-12S | Sampled: 7/28/2022 16:07

Sample ID: 22G1683-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	120	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:40	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-12S | Sampled: 7/28/2022 16:07

Sample ID: 22G1683-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	430	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:39	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:16	CB2
Sulfate	33	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:16	CB2
Total Organic Carbon	2.8	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 19:11	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	130	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chlorobenzene	0.36	1.0	0.11	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF

ALH 12/30/22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl Acetate	NDUJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.5	70-130		8/1/22 13:40
Toluene-d8	94.9	70-130		8/1/22 13:40
4-Bromofluorobenzene	102	70-130		8/1/22 13:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 19:18	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.7	15-110			8/8/22 19:18

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	14	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloroethane	0.39	2.0	0.32	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloromethane	NDUJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	NDUJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Dichlorodifluoromethane (Freon 12)	1.2	2.0	0.19	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
cis-1,2-Dichloroethylene	0.28	1.0	0.15	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Vinyl Chloride	1.0	2.0	0.21	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.3	70-130		8/1/22 14:06
Toluene-d8	96.6	70-130		8/1/22 14:06
4-Bromofluorobenzene	105	70-130		8/1/22 14:06

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results		RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	3.0	J	0.19	0.031	µg/L	1	H-06	SW-846 8270E	8/9/22	8/10/22 23:32	SPF
1,4-Dioxane	3.1	J	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 19:38	SPF

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	18.7		15-110	H-06	8/10/22 23:32
1,4-Dioxane-d8	**14.6**	*	15-110	S-10	8/8/22 19:38

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	110	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:46	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	400	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:58	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:38	CB2
Sulfate	43	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:38	CB2
Total Organic Carbon	8.5	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 16:41	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: Trip Blank | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: Trip Blank | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl Acetate	ND UJ	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND UJ	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.3	70-130		8/1/22 11:28
Toluene-d8	95.6	70-130		8/1/22 11:28
4-Bromofluorobenzene	104	70-130		8/1/22 11:28

ALH 12/30/22

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory (con-test)
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014, USEPA Region II data validation SOP HW-22 Rev. 5, Validating Volatile Organic Compounds by GC/MS, SW 846 Method 8270D, Dec. 2010, USEPA Region II data validation SOP HW-3a, Rev.14, Validating Metals ISMO2.2, ICP-AES Data Validation, Sept. 2016,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOC), Metals, Anions, Alkalinity, Total Organic Carbon (TOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	22G1804
SAMPLING DATE(S):	July 29, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC*
MW-18S	22G1804-01	X	X
MW-16S	22G1804-02	X	X
MW-6D	22G1804-03	X	X
MW-16S	22G1804-04	X	X
MW-16D	22G1804-05	X	X
Trip Blank	22G1804-06	X	

Client Sample ID	Laboratory ID	Metals**	Anions***
MW-16S	22G1804-02	X	X
MW-6D	22G1804-03	X	X
MW-6DDL	22G1804-03DL		X
MW-16S	22G1804-04	X	X
MW-16D	22G1804-05	X	X
MW-16DDL	22G1804-05DL		X

Client Sample ID	Laboratory ID	Alkalinity	TOC
MW-16S	22G1804-02	X	X
MW-6D	22G1804-03	X	X
MW-16S	22G1804-04	X	X
MW-16D	22G1804-05	X	X

* SVOC – 1,4-dioxane only
** Metals – Calcium only
*** Anions – Nitrate and Sulfate

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Con-test Analytical Laboratory – 22G1804

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 6/9/2020 on instrument GCMSVOA2 was 0.00377 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 8/2/22 at 11:24 on instrument GCMSVOA2 was 0.0040 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the

1,4-dioxane results for the samples as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 8/2/22 at 11:24 on instrument GCMSVOA2 exceeded the 20% QC limit for the following compounds:

Acetone	-29.3%
bromochloromethane	33.2%
Bromomethane	67.4%
Carbon disulfide	20.7%
Chloromethane	-58.3%
1,2-dibromo-3-chloropropane	-27.6%
Hexachlorobutadiene	-21.0%
Naphthalene	-35.3%
Tetrachloroethylene	24.1%
1,2,3-trichlorobenzene	-32.1%
Trichloroethylene	23.5%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections reported in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) were outside the QC limits for the following compounds:

Compound	LCS, %R	LCSD, %R
Acetone	68.6%	
Bromochloromethane	133%	141%
Chloromethane	39.2%	
1,2-dibromo-3-chloropropane	69.0%	67.5%
Chloroethane		136%

Freon 113 135%

The RPDs for acetone (33.3%), chloromethane (25.9%) and ,1-dichloroethylene (27.1%) exceeded the QC limits. The positive and non-detect results for acetone, chloromethane and 1,2-dibromo-3-chloropropane in the SDG samples were qualified as estimated (J) and (UJ). Since there were no positive results for the other listed compounds, no further data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses data were not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified for this fraction of the SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

SEMIVOLATILE ORGANICS (SVOC)

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per SW 846 Method 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The result for sample MW-16D exceeded the linear calibration range of the instrument. The lab did not submit a reanalysis or dilution analysis for the sample, so the positive result was qualified as estimated (J).

All other CRQL criteria were met. No data qualification was necessary.

METALS

SUMMARY

I.) General:

The analyses for Total Metals were performed using SW-846 Method 6010D.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Initial and Continuing Calibration criteria were met. No data qualification was necessary.

V.) ICP CRDL Standard:

All ICP CRDL standards associated with the analytical sequence met QC criteria. No data qualification was necessary.

VI.) Blanks:

Preparation Blanks:

There were no detections in the associated preparation blank. No data qualification was

necessary.

Calibration Blanks:

There were detections in the associated calibration blanks. No data qualification was necessary.

VII.) Interference Check Standards:

All Interference Check Standards criteria were me.t. NO data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required.

X.) Serial Dilution:

Serial Dilution analysis data was not required for this SDG. No data qualification was necessary.

XI.) Field Duplicates:

There were no field duplicates identified in this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

ANIONS

SUMMARY

I.) General:

The analyses for Anions were performed by Ion Chromatography according to EPA Method 300.0.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Initial and Continuing Calibration criteria were met. No data qualification was necessary.

V.) Blanks:

Calibration Blanks:

There were no detections in the associated calibration blanks. No data qualification was necessary.

Preparation Blanks:

There were no detections in the associated preparation blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Duplicate (MS / MD):

MS / MD analyses data were no submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The sulfate results for samples MW-6D and MW-16D were reported from dilution analyses. Since the Form I for each sample is a composite of the results, no data qualification was necessary.

ALKALINITY

SUMMARY

I.) General:

The analyses for Alkalinity were performed according to Standards Method SM 2320.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

Calibration criteria were not required for this method. No data qualification was necessary.

V.) Blanks:

There were no detections in the associated blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Duplicate (MS / MD):

MS / MD analyses data were not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MD data was not required. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

TOTAL ORGANIC CARBON (TOC)

SUMMARY

I.) General:

The analyses for Total Organic Carbon (TOC) were performed according to Standards Method 5310B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Calibration:

All Calibration criteria were met. No data qualification was necessary.

V.) Blanks:

There were no detections in the blanks for this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	6.0 J	50	2.0	µg/L	1	R-05, V-05, J	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF

ALH 1/3/23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Hexachlorobutadiene	ND UJ	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Trichloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.9	70-130		8/2/22 17:32
Toluene-d8	99.4	70-130		8/2/22 17:32
4-Bromofluorobenzene	102	70-130		8/2/22 17:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 23:55	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.8	15-110		8/8/22 23:55

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6S | Sampled: 7/29/2022 10:36

Sample ID: 22G1804-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	63	0.50	0.11	mg/L	1		SW-846 6010D	8/1/22	8/3/22 21:11	JLC

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6S | Sampled: 7/29/2022 10:36

Sample ID: 22G1804-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	240	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:02	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 17:12	IS
Sulfate	24	1.0	0.55	mg/L	1		EPA 300.0	7/30/22	7/30/22 17:12	IS
Total Organic Carbon	2.4	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 16:57	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6D | Sampled: 7/29/2022 09:21

Sample ID: 22G1804-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	89	0.50	0.11	mg/L	1		SW-846 6010D	8/1/22	8/3/22 21:16	JLC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6D | Sampled: 7/29/2022 09:21

Sample ID: 22G1804-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	270	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:38	DET
Nitrate as N	0.52	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 16:28	IS
Sulfate	58	5.0	2.7	mg/L	5		EPA 300.0	7/30/22	7/30/22 16:50	IS
Total Organic Carbon	1.7	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:12	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	R-05, V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromochloromethane	ND UJ	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	NDUJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloroethane	3.5	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloroethylene	1.2	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Hexachlorobutadiene	ND UJ	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,1-Trichloroethane	0.75	1.0	0.17	µg/L	1	J	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Trichloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.0	70-130		8/2/22 17:59
Toluene-d8	99.9	70-130		8/2/22 17:59
4-Bromofluorobenzene	104	70-130		8/2/22 17:59

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/9/22 0:15	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	28.1	15-110		8/9/22 0:15	

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	130	0.50	0.11	mg/L	1		SW-846 6010D	8/5/22	8/16/22 14:05	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	470	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:49	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 14:59	IS
Sulfate	13	1.0	0.55	mg/L	1		EPA 300.0	7/30/22	7/30/22 14:59	IS
Total Organic Carbon	2.5	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:33	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	76 J	500	20	µg/L	10	R-05, V-05, J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromochloromethane	ND UJ	10	3.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromomethane	ND UJ	50	15	µg/L	10	V-34	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Carbon Disulfide	ND UJ	50	14	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloroethane	15	20	3.2	µg/L	10	J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloromethane	ND UJ	20	5.2	µg/L	10	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	50	8.0	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloroethane	590	10	1.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloroethylene	4.6	10	1.4	µg/L	10	R-05, J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
cis-1,2-Dichloroethylene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,2-Dichloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,4-Dioxane	1200 J	500	210	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Hexachlorobutadiene	ND UJ	6.0	4.6	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Naphthalene	ND UJ	20	2.4	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Tetrachloroethylene	ND UJ	10	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,3-Trichlorobenzene	ND UJ	50	3.0	µg/L	10	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Trichloroethylene	ND UJ	10	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Vinyl Chloride	4.0	20	2.1	µg/L	10	J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	81.8	70-130		8/2/22 18:25
Toluene-d8	99.0	70-130		8/2/22 18:25
4-Bromofluorobenzene	104	70-130		8/2/22 18:25

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	870 J	0.19	0.031	µg/L	1	E	SW-846 8270E	8/4/22	8/9/22 0:34	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	30.1	15-110		8/9/22 0:34

ALH 1/3/23

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	250	0.50	0.11	mg/L	1		SW-846 6010D	8/5/22	8/16/22 14:10	QNW

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	420	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:59	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 15:43	IS
Sulfate	450	25	14	mg/L	25		EPA 300.0	8/12/22	8/12/22 16:12	IS
Total Organic Carbon	4.4	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:52	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: Trip Blank | Sampled: 7/29/2022 00:00

Sample ID: 22G1804-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND UJ	50	2.0	µg/L	1	R-05, V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromochloromethane	NDUJ	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromomethane	ND UJ	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Carbon Disulfide	ND UJ	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloromethane	ND UJ	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND UJ	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: Trip Blank | Sampled: 7/29/2022 00:00

Sample ID: 22G1804-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,4-Dioxane	ND UJ	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Hexachlorobutadiene	ND UJ	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Naphthalene	ND UJ	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Tetrachloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,3-Trichlorobenzene	ND UJ	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Trichloroethylene	ND UJ	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	83.0	70-130		8/2/22 14:28
Toluene-d8	101	70-130		8/2/22 14:28
4-Bromofluorobenzene	107	70-130		8/2/22 14:28

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210088
SAMPLING DATE(S):	April 5, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-39S	70210088001	X
SB-39SMS	70210088001MS	X
SB-39I	70210088002	X
SB-40S	70210088003	X
SB-40I	70210088004	X
Trip Blank	70210088005	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210088

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Percent Difference (%D) for the standards run on 4/16/22 at 11:37 on instrument 70MSV6 was -21.5% for methyl acetate, which exceeded the 20% QC limit, The methyl acetate results for the SDG samples, which were all non-detect, were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS analysis was performed using sample SB-39S. All criteria were met. No data qualification was necessary.

Batch MD data was submitted for this SDG. One Relative Percent Difference (RPD) exceeded the QC limit. Data qualification based on batch QC data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-39S **Lab ID: 70210088001** Collected: 04/05/22 10:10 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/16/22 14:39	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	108-67-8	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/16/22 14:39	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/16/22 14:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/16/22 14:39	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/16/22 14:39	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/16/22 14:39	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/16/22 14:39	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/16/22 14:39	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/16/22 14:39	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/16/22 14:39	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/16/22 14:39	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-39S **Lab ID: 70210088001** Collected: 04/05/22 10:10 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 14:39	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:39	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		04/16/22 14:39	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 14:39	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 14:39	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-39I **Lab ID: 70210088002** Collected: 04/05/22 12:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 14:58	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 14:58	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 14:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 14:58	108-10-1	
Acetone	**6.1**		ug/L	5.0	1		04/16/22 14:58	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 14:58	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 14:58	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 14:58	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 14:58	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 14:58	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:58	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 14:58	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-39I **Lab ID: 70210088002** Collected: 04/05/22 12:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 14:58	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:58	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:58	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:58	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:58	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		04/16/22 14:58	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 14:58	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 14:58	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-40S **Lab ID: 70210088003** Collected: 04/05/22 13:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/16/22 15:16	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	108-67-8	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/16/22 15:16	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/16/22 15:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/16/22 15:16	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/16/22 15:16	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/16/22 15:16	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-00-3	
Chloroform	**4.3**	ug/L	1.0	1		04/16/22 15:16	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/16/22 15:16	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/16/22 15:16	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/16/22 15:16	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/16/22 15:16	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-40S **Lab ID: 70210088003** Collected: 04/05/22 13:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 15:16	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 15:16	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	81-122	1		04/16/22 15:16	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		04/16/22 15:16	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/16/22 15:16	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-40I **Lab ID: 70210088004** Collected: 04/05/22 15:05 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 15:35	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 15:35	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 15:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 15:35	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/16/22 15:35	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 15:35	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 15:35	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 15:35	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 15:35	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 15:35	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 15:35	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 15:35	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: SB-40I **Lab ID: 70210088004** Collected: 04/05/22 15:05 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 15:35	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:35	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 15:35	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 15:35	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 15:35	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/16/22 15:35	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		04/16/22 15:35	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 15:35	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: TRIP BLANK **Lab ID: 70210088005** Collected: 04/05/22 00:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 14:21	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 14:21	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 14:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 14:21	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/16/22 14:21	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 14:21	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 14:21	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 14:21	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 14:21	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 14:21	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 14:21	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 14:21	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210088

Sample: TRIP BLANK **Lab ID: 70210088005** Collected: 04/05/22 00:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 14:21	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:21	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:21	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 14:21	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 14:21	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/16/22 14:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 14:21	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 14:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210282
SAMPLING DATE(S):	April 7, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-37S	70210282001	X
SB-37I	70210282002	X
SB-36S	70210282003	X
SB-35S	70210282004	X
SB-36I	70210282005	X
Trip Blank	70210282006	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210282

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Percent Difference (%D) for the standards run on 4/16/22 at 11:37 on instrument 70MSV6 was -21.5% for methyl acetate, which exceeded the 20% QC limit, The methyl acetate results for the SDG samples, which were all non-detect, were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS/ MD data was submitted for this SDG. One Relative Percent Difference (RPD) exceeded the QC limit. Data qualification based on batch QC data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-37S **Lab ID: 70210282001** Collected: 04/07/22 08:05 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 16:12	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 16:12	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 16:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 16:12	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/16/22 16:12	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 16:12	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 16:12	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 16:12	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 16:12	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 16:12	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:12	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:12	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-37S **Lab ID: 70210282001** Collected: 04/07/22 08:05 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 16:12	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:12	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:12	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:12	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:12	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		04/16/22 16:12	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 16:12	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 16:12	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-37I **Lab ID: 70210282002** Collected: 04/07/22 10:40 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 16:30	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 16:30	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 16:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 16:30	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/16/22 16:30	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 16:30	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 16:30	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 16:30	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 16:30	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 16:30	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:30	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:30	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-37I **Lab ID: 70210282002** Collected: 04/07/22 10:40 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 16:30	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:30	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:30	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:30	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:30	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		04/16/22 16:30	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 16:30	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/16/22 16:30	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-36S **Lab ID: 70210282003** Collected: 04/07/22 12:50 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 16:49	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	106-46-7	
2-Butanone (MEK)	**10.4**		ug/L	5.0	1		04/16/22 16:49	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 16:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 16:49	108-10-1	
Acetone	**10.6**		ug/L	5.0	1		04/16/22 16:49	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 16:49	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 16:49	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 16:49	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 16:49	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 16:49	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 16:49	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 16:49	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-36S **Lab ID: 70210282003** Collected: 04/07/22 12:50 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 16:49	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:49	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:49	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 16:49	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 16:49	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		04/16/22 16:49	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		04/16/22 16:49	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 16:49	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-35S **Lab ID: 70210282004** Collected: 04/07/22 12:20 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/16/22 17:07	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	108-67-8	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/16/22 17:07	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/16/22 17:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/16/22 17:07	108-10-1	
Acetone	**9.9**	ug/L	5.0	1		04/16/22 17:07	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/16/22 17:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/16/22 17:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/16/22 17:07	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/16/22 17:07	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/16/22 17:07	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/16/22 17:07	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-35S **Lab ID: 70210282004** Collected: 04/07/22 12:20 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 17:07	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 17:07	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		04/16/22 17:07	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 17:07	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/16/22 17:07	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-36I **Lab ID: 70210282005** Collected: 04/07/22 14:55 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/16/22 17:26	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	108-67-8	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	106-46-7	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/16/22 17:26	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/16/22 17:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/16/22 17:26	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/16/22 17:26	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	71-43-2	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/16/22 17:26	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/16/22 17:26	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/16/22 17:26	98-82-8	
Methyl acetate	**<1.0**	UJ	ug/L	1.0	1		04/16/22 17:26	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/16/22 17:26	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/16/22 17:26	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/16/22 17:26	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: SB-36I **Lab ID: 70210282005** Collected: 04/07/22 14:55 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 17:26	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:26	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 17:26	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 17:26	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 17:26	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		04/16/22 17:26	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		04/16/22 17:26	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/16/22 17:26	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: TRIP BLANK **Lab ID: 70210282006** Collected: 04/07/22 14:55 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-35-4	
1,2,3-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	526-73-8	N3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	120-82-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/16/22 13:44	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	78-87-5	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	108-67-8	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/16/22 13:44	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/16/22 13:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/16/22 13:44	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/16/22 13:44	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/16/22 13:44	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/16/22 13:44	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/16/22 13:44	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/16/22 13:44	79-20-9	v3
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/16/22 13:44	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/16/22 13:44	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/8
Pace Project No.: 70210282

Sample: TRIP BLANK **Lab ID: 70210282006** Collected: 04/07/22 14:55 Received: 04/08/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/16/22 13:44	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/16/22 13:44	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/16/22 13:44	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/16/22 13:44	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		04/16/22 13:44	2037-26-5	

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Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210285
SAMPLING DATE(S):	April 6, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-41S	70210285001	X
SB-41D	70210285002	X
Trip Blank	70210285003	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210285

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 2/18/22 on instrument 70MSV5 was 0.00231 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 2/18/22 at 20:19 on instrument 70MSV5 was 0.0028 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Difference (%D) for the standards run on 2/18/22 at 20:19 on instrument 70MSV5 was 35.8% for acetone, which exceeded the 30% QC limit. The positive and non-detect acetone

results for the samples were qualified as estimated (J) and (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/15/22 at 10:37 on instrument 70MSV5 was 0.00261 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 4/15/22 at 10:37 on instrument 70MSV5 exceeded the 20% QC limit for the following compounds:

Acetone	107%
2-butanone	23.2%
1,2-dichlorobenzene	23.4%
1,3-dichlorobenzene	26.2%
1,4-dichlorobenzene	24.1%
2-hexanone	26.9%
Methyl acetate	40.5%
1,2,3-trichlorobenzene	45.2%
1,2,4-trichlorobenzene	39.6%
Trichlorofluoromethane	24.6%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) for the following compounds exceeded the QC limits:

Acetone	201%
1,2-dichlorobenzene	120%
1,3-dichlorobenzene	123%
1,4-dichlorobenzene	121%

The positive acetone result for sample SB-41D was qualified as estimated (J). All other results for these compounds in the SDG samples were non-detect, so no further data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD data was not submitted for this SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: SB-41S **Lab ID: 70210285001** Collected: 04/06/22 10:10 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	87-61-6	IC
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/15/22 17:07	106-93-4	
1,2-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	95-50-1	L1
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	78-87-5	
1,3-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	541-73-1	L1
1,4-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	106-46-7	L1
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/15/22 17:07	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/15/22 17:07	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		04/15/22 17:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/15/22 17:07	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/15/22 17:07	67-64-1	L1
Benzene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/15/22 17:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/15/22 17:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/15/22 17:07	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/15/22 17:07	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 17:07	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-09-2	IC
Styrene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	79-01-6	
Trichlorofluoromethane	**<1.0** UJ	ug/L	1.0	1		04/15/22 17:07	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/15/22 17:07	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: SB-41S **Lab ID: 70210285001** Collected: 04/06/22 10:10 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/15/22 17:07	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 17:07	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	81-122	1		04/15/22 17:07	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		04/15/22 17:07	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/15/22 17:07	2037-26-5	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: SB-41D **Lab ID: 70210285002** Collected: 04/06/22 14:20 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	87-61-6	IC
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/15/22 16:48	106-93-4	
1,2-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	95-50-1	L1
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	78-87-5	
1,3-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	541-73-1	L1
1,4-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	106-46-7	L1
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/15/22 16:48	123-91-1	
2-Butanone (MEK)	**5.0** J	ug/L	5.0	1		04/15/22 16:48	78-93-3	v1
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		04/15/22 16:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/15/22 16:48	108-10-1	
Acetone	**15.1**	ug/L	5.0	1		04/15/22 16:48	67-64-1	IH,L1,v1
Benzene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/15/22 16:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/15/22 16:48	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/15/22 16:48	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/15/22 16:48	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 16:48	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-09-2	IC
Styrene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	79-01-6	
Trichlorofluoromethane	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:48	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/15/22 16:48	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: SB-41D **Lab ID: 70210285002** Collected: 04/06/22 14:20 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/15/22 16:48	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 16:48	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	81-122	1		04/15/22 16:48	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		04/15/22 16:48	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/15/22 16:48	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: TRIP BLANK **Lab ID: 70210285003** Collected: 04/06/22 00:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	87-61-6	IC
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/15/22 16:28	106-93-4	
1,2-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	95-50-1	L1
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	78-87-5	
1,3-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	541-73-1	L1
1,4-Dichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	106-46-7	L1
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/15/22 16:28	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/15/22 16:28	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		04/15/22 16:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/15/22 16:28	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/15/22 16:28	67-64-1	L1
Benzene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/15/22 16:28	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/15/22 16:28	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/15/22 16:28	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/15/22 16:28	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/15/22 16:28	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-09-2	IC
Styrene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	79-01-6	
Trichlorofluoromethane	**<1.0** UJ	ug/L	1.0	1		04/15/22 16:28	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/15/22 16:28	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/6
Pace Project No.: 70210285

Sample: TRIP BLANK **Lab ID: 70210285003** Collected: 04/06/22 00:00 Received: 04/07/22 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/15/22 16:28	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/15/22 16:28	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	81-122	1		04/15/22 16:28	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118	1		04/15/22 16:28	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/15/22 16:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210478
SAMPLING DATE(S):	April 8, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-35I	70210478001	X
SB-35IMS	70210478001MS	X
SB-35IMSD	70210478001MSD	X
SB-38S	70210478002	X
SB-35I	70210478003	X
DUP-040822	70210478004	X
Trip Blank	70210478005	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210478

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 12/26/21 on instrument 70MSV8 was 0.00186 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 12/26/21 at 19:16 on instrument 70MSV8 was 0.00203 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/19/22 at 05:53 on instrument 70MSV8 was 0.00189 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 4/19/22 at 05:53 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

2-butanone	-25.1%
1,2-dibromo-3-chloropropane	-20.8%
Dichlorodifluoromethane	20.1%
Trans-1,3-dichloropropene	21.8%
Methylene chloride	21.6%
1,2,3-trichlorobenzene	-26.3%
1,2,4-trichlorobenzene	-20.2%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recovery (%R) for trans-1,3-dichloropropene at 71% was below the QC limits. The results for this compound in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis was performed using sample SB-35I. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (SB-35I / DUP-040822) was identified as part of this SDG. There were no calculable RPD. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-35I **Lab ID: 70210478001** Collected: 04/08/22 10:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	96-12-8	v3
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 10:02	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/19/22 10:02	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/19/22 10:02	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 10:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 10:02	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 10:02	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 10:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 10:02	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 10:02	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 10:02	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 10:02	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	108-87-2	
Methylene Chloride	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 10:02	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-35I **Lab ID: 70210478001** Collected: 04/08/22 10:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 10:02	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:02	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:02	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		04/19/22 10:02	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-118	1		04/19/22 10:02	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		04/19/22 10:02	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-38S **Lab ID: 70210478002** Collected: 04/08/22 12:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	96-12-8	v3
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 10:21	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/19/22 10:21	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/19/22 10:21	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 10:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 10:21	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 10:21	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 10:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 10:21	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 10:21	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 10:21	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 10:21	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	108-87-2	
Methylene Chloride	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 10:21	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-38S **Lab ID: 70210478002** Collected: 04/08/22 12:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 10:21	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:21	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:21	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/19/22 10:21	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/19/22 10:21	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		04/19/22 10:21	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-38I **Lab ID: 70210478003** Collected: 04/08/22 12:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	96-12-8	v3
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 10:41	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/19/22 10:41	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/19/22 10:41	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 10:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 10:41	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 10:41	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 10:41	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 10:41	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 10:41	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 10:41	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 10:41	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	108-87-2	
Methylene Chloride	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 10:41	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: SB-38I **Lab ID: 70210478003** Collected: 04/08/22 12:50 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 10:41	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 10:41	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/19/22 10:41	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/19/22 10:41	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		04/19/22 10:41	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/19/22 10:41	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: DUP-040822 **Lab ID: 70210478004** Collected: 04/08/22 00:00 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	96-12-8	v3
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 11:00	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		04/19/22 11:00	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/19/22 11:00	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 11:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 11:00	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 11:00	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 11:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 11:00	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 11:00	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 11:00	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 11:00	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 11:00	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: DUP-040822 **Lab ID: 70210478004** Collected: 04/08/22 00:00 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 11:00	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 11:00	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/19/22 11:00	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/19/22 11:00	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		04/19/22 11:00	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: TRIP BLANK **Lab ID: 70210478005** Collected: 04/08/22 00:00 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	96-12-8	v3
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 09:42	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		04/19/22 09:42	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/19/22 09:42	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 09:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 09:42	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 09:42	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 09:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 09:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 09:42	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 09:42	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 09:42	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 09:42	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210478

Sample: TRIP BLANK **Lab ID: 70210478005** Collected: 04/08/22 00:00 Received: 04/09/22 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 09:42	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 09:42	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		04/19/22 09:42	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/19/22 09:42	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		04/19/22 09:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210625
SAMPLING DATE(S):	April 11, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-52S	70210625001	X
SB-52I	70210625002	X
SB-51S	70210625003	X
SB-51I	70210625004	X
Trip Blank	70210625005	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210625

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.00338 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound was 31.9%, which exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/19/22 at 16:41 on instrument 70MSV6 was 0.00279 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for all samples except SB-51I, which were all non-detect, as estimated (UJ).

The Relative Response Factor (RRF) for the standards run on 4/20/22 at 17:12 on instrument 70MSV6 was 0.00265 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the non-detect 1,4-dioxane results for associated sample SB-51I as estimated (UJ).

The Percent Difference (%D) for the standards run on 4/20/22 at 17:12 on instrument 70MSV6 was -20.6% for dichlorodifluoromethane, which exceeded the 20% QC limit. The positive result for this compound in associated sample SB-51I was qualified as estimated (J).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS / MD analysis data was submitted for this SDG. Sixteen Percent Recoveries (%Rs) and four Relative Percent Differences (RPDs) were outside the QC limits. Data qualification based on batch QC data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was

necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-52S **Lab ID: 70210625001** Collected: 04/11/22 09:40 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**46.7**	ug/L	1.0	1		04/19/22 23:36	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	76-13-1	
1,1-Dichloroethane	**20.7**	ug/L	1.0	1		04/19/22 23:36	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 23:36	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ ug/L	100	1		04/19/22 23:36	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/19/22 23:36	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 23:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 23:36	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 23:36	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 23:36	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	108-90-7	
Chloroethane	**14.3**	ug/L	1.0	1		04/19/22 23:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 23:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 23:36	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 23:36	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 23:36	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 23:36	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-52S **Lab ID: 70210625001** Collected: 04/11/22 09:40 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 23:36	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 23:36	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/19/22 23:36	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		04/19/22 23:36	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/19/22 23:36	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-52I **Lab ID: 70210625002** Collected: 04/11/22 11:45 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**2.7**	ug/L	1.0	1		04/19/22 23:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	**18.7**	ug/L	1.0	1		04/19/22 23:55	76-13-1	
1,1-Dichloroethane	**165**	ug/L	1.0	1		04/19/22 23:55	75-34-3	
1,1-Dichloroethene	**65.7**	ug/L	1.0	1		04/19/22 23:55	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 23:55	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	95-50-1	
1,2-Dichloroethane	**2.4**	ug/L	1.0	1		04/19/22 23:55	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/19/22 23:55	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/19/22 23:55	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 23:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 23:55	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 23:55	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 23:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 23:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	124-48-1	
Dichlorodifluoromethane	**4.3**	ug/L	1.0	1		04/19/22 23:55	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 23:55	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 23:55	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 23:55	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	100-42-5	
Tetrachloroethene	**2.5**	ug/L	1.0	1		04/19/22 23:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 23:55	75-69-4	
Vinyl chloride	**1.2**	ug/L	1.0	1		04/19/22 23:55	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-52I **Lab ID: 70210625002** Collected: 04/11/22 11:45 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 23:55	1330-20-7	
cis-1,2-Dichloroethene	**44.1**	ug/L	1.0	1		04/19/22 23:55	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 23:55	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/19/22 23:55	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		04/19/22 23:55	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/19/22 23:55	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-51S **Lab ID: 70210625003** Collected: 04/11/22 12:00 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**5.4**	ug/L	1.0	1		04/20/22 00:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	76-13-1	
1,1-Dichloroethane	**1.5**	ug/L	1.0	1		04/20/22 00:13	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 00:13	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/20/22 00:13	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 00:13	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 00:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 00:13	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/20/22 00:13	67-64-1	
Benzene	**2.7**	ug/L	1.0	1		04/20/22 00:13	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 00:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	108-90-7	
Chloroethane	**1.0**	ug/L	1.0	1		04/20/22 00:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 00:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	74-87-3	
Cyclohexane	**3.2**	ug/L	1.0	1		04/20/22 00:13	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-71-8	
Ethylbenzene	**1.3**	ug/L	1.0	1		04/20/22 00:13	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 00:13	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 00:13	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 00:13	1634-04-4	
Methylcyclohexane	**1.5**	ug/L	1.0	1		04/20/22 00:13	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/20/22 00:13	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-51S **Lab ID: 70210625003** Collected: 04/11/22 12:00 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 00:13	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:13	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		04/20/22 00:13	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		04/20/22 00:13	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/20/22 00:13	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-51I **Lab ID: 70210625004** Collected: 04/11/22 14:40 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	76-13-1	
1,1-Dichloroethane	**834**		ug/L	5.0	5		04/20/22 19:19	75-34-3	
1,1-Dichloroethene	**37.3**		ug/L	1.0	1		04/20/22 00:32	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/20/22 00:32	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		04/20/22 00:32	123-91-1	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/20/22 00:32	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/20/22 00:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/20/22 00:32	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		04/20/22 00:32	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/20/22 00:32	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/20/22 00:32	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	124-48-1	
Dichlorodifluoromethane	**1.3**	J	ug/L	1.0	1		04/20/22 00:32	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/20/22 00:32	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		04/20/22 00:32	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/20/22 00:32	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/20/22 00:32	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/20/22 00:32	75-69-4	
Vinyl chloride	**8.1**		ug/L	1.0	1		04/20/22 00:32	75-01-4	

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ALH 1/3/23

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: SB-51I **Lab ID: 70210625004** Collected: 04/11/22 14:40 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 00:32	1330-20-7	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	1		04/20/22 00:32	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:32	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:32	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:32	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		04/20/22 00:32	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		04/20/22 00:32	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/20/22 00:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: TRIP BLANK **Lab ID: 70210625005** Collected: 04/11/22 00:00 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/19/22 22:59	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ ug/L	100	1		04/19/22 22:59	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/19/22 22:59	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/19/22 22:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/19/22 22:59	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/19/22 22:59	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/19/22 22:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/19/22 22:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/19/22 22:59	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/19/22 22:59	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/19/22 22:59	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/19/22 22:59	75-01-4	

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ALH 4/13/22

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/11
Pace Project No.: 70210625

Sample: TRIP BLANK **Lab ID: 70210625005** Collected: 04/11/22 00:00 Received: 04/11/22 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/19/22 22:59	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/19/22 22:59	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/19/22 22:59	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		04/19/22 22:59	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/19/22 22:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70210831
SAMPLING DATE(S):	April 12, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-49S	70210831001	X
SB-48S	70210831002	X
SB-50S	70210831003	X
SB-50I	70210831004	X
Trip Blank	70210831005	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70210831

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.00338 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound was 31.9%, which exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/19/22 at 16:41 on instrument 70MSV6 was 0.00279 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for all samples except SB-50I, which were all non-detect, as estimated (UJ).

The Relative Response Factor (RRF) for the standards run on 4/20/22 at 17:12 on instrument 70MSV6 was 0.00265 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the non-detect 1,4-dioxane results for associated sample SB-50I as estimated (UJ).

The Percent Difference (%D) for the standards run on 4/20/22 at 17:12 on instrument 70MSV6 was -20.6% for dichlorodifluoromethane, which exceeded the 20% QC limit. The non-detect result for this compound in associated sample SB-50I was qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS / MD analysis data was submitted for this SDG. Sixteen Percent Recoveries (%Rs) and four Relative Percent Differences (RPDs) were outside the QC limits. Data qualification based on batch QC data was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was

necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-49S **Lab ID: 70210831001** Collected: 04/12/22 09:50 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 01:09	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/20/22 01:09	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 01:09	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 01:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 01:09	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/20/22 01:09	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 01:09	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 01:09	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 01:09	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 01:09	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 01:09	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:09	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-49S **Lab ID: 70210831001** Collected: 04/12/22 09:50 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 01:09	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:09	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/20/22 01:09	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/20/22 01:09	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/20/22 01:09	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-48S **Lab ID: 70210831002** Collected: 04/12/22 10:50 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 01:27	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ ug/L	100	1		04/20/22 01:27	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 01:27	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 01:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 01:27	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/20/22 01:27	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 01:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 01:27	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 01:27	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 01:27	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 01:27	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:27	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-48S **Lab ID: 70210831002** Collected: 04/12/22 10:50 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 01:27	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:27	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	81-122	1		04/20/22 01:27	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		04/20/22 01:27	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/20/22 01:27	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-50S **Lab ID: 70210831003** Collected: 04/12/22 13:10 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**1.2**	ug/L	1.0	1		04/20/22 01:46	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 01:46	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/20/22 01:46	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 01:46	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 01:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 01:46	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/20/22 01:46	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 01:46	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 01:46	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 01:46	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 01:46	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 01:46	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/20/22 01:46	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-50S **Lab ID: 70210831003** Collected: 04/12/22 13:10 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 01:46	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 01:46	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/20/22 01:46	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		04/20/22 01:46	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/20/22 01:46	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-50I **Lab ID: 70210831004** Collected: 04/12/22 15:45 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	76-13-1	
1,1-Dichloroethane	**352**	ug/L	5.0	5		04/20/22 19:37	75-34-3	D6
1,1-Dichloroethene	**27.5**	ug/L	1.0	1		04/20/22 02:04	75-35-4	D6
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 02:04	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/20/22 02:04	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 02:04	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 02:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 02:04	108-10-1	
Acetone	**5.3**	ug/L	5.0	1		04/20/22 02:04	67-64-1	D6
Benzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 02:04	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 02:04	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/20/22 02:04	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 02:04	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 02:04	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 02:04	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 02:04	75-69-4	
Vinyl chloride	**1.3**	ug/L	1.0	1		04/20/22 02:04	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: SB-50I **Lab ID: 70210831004** Collected: 04/12/22 15:45 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 02:04	1330-20-7	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		04/20/22 02:04	156-59-2	D6
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 02:04	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/20/22 02:04	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		04/20/22 02:04	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/20/22 02:04	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: TRIP BLANK **Lab ID: 70210831005** Collected: 04/12/22 00:00 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/20/22 00:50	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ ug/L	100	1		04/20/22 00:50	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/20/22 00:50	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/20/22 00:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/20/22 00:50	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/20/22 00:50	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/20/22 00:50	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/20/22 00:50	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/20/22 00:50	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/20/22 00:50	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/20/22 00:50	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/20/22 00:50	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70210831

Sample: TRIP BLANK **Lab ID: 70210831005** Collected: 04/12/22 00:00 Received: 04/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/20/22 00:50	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/20/22 00:50	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/20/22 00:50	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		04/20/22 00:50	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/20/22 00:50	2037-26-5	

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70211071
SAMPLING DATE(S):	April 13, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-49I	70211071001	X
SB-48I	70211071002	X
SB-46S	70211071003	X
SB-46I	70211071004	X
SB-44S	70211071005	X
Trip Blank	70211071006	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70211071

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 12/26/21 on instrument 70MSV8 was 0.00186 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 12/26/21 at 19:16 on instrument 70MSV8 was 0.00203 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/22/22 at 07:02 on instrument 70MSV8 was 0.00189 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 4/12/22 at 07:02 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

2-butanone	-30.9%
Cyclohexane	22.2%
Dichlorodifluoromethane	22.2%
Trans-1,3-dichloropropene	26.0%
Methylcyclohexane	21.1%
1,2,3-trichlorobenzene	-29.7%
1,2,4-trichlorobenzene	-22.5%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recovery (%R) for trans-1,3-dichloropropene at 71% was below the QC limits. The results for this compound in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS / MD data were submitted for this SDG. One Percent Recovery (%R) was outside the QC limits. Data qualification based on batch QC results was not required. No data qualification

was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-49I **Lab ID: 70211071001** Collected: 04/13/22 09:45 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**3.4**	ug/L	1.0	1		04/22/22 10:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	76-13-1	
1,1-Dichloroethane	**66.8**	ug/L	1.0	1		04/22/22 10:37	75-34-3	
1,1-Dichloroethene	**1.8**	ug/L	1.0	1		04/22/22 10:37	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:37	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:37	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 10:37	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 10:37	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 10:37	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 10:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 10:37	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 10:37	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 10:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	108-90-7	
Chloroethane	**1.1**	ug/L	1.0	1		04/22/22 10:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 10:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:37	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:37	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 10:37	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 10:37	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 10:37	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:37	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 10:37	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 10:37	75-01-4	

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-49I **Lab ID: 70211071001** Collected: 04/13/22 09:45 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
Xylene (Total)	**<3.0**		ug/L	3.0	1		04/22/22 10:37	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 10:37	156-59-2	
cis-1,3-Dichloropropene	**<1.0**		ug/L	1.0	1		04/22/22 10:37	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 10:37	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	UJ	ug/L	1.0	1		04/22/22 10:37	10061-02-6	L2,v3
Surrogates									
1,2-Dichloroethane-d4 (S)	92		%	81-122	1		04/22/22 10:37	17060-07-0	
4-Bromofluorobenzene (S)	104		%	79-118	1		04/22/22 10:37	460-00-4	
Toluene-d8 (S)	101		%	82-122	1		04/22/22 10:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-48I **Lab ID: 70211071002** Collected: 04/13/22 11:40 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**1.6**	ug/L	1.0	1		04/22/22 10:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	76-13-1	
1,1-Dichloroethane	**17.2**	ug/L	1.0	1		04/22/22 10:56	75-34-3	
1,1-Dichloroethene	**10.2**	ug/L	1.0	1		04/22/22 10:56	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:56	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:56	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 10:56	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 10:56	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 10:56	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 10:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 10:56	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 10:56	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 10:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 10:56	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:56	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:56	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 10:56	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 10:56	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 10:56	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 10:56	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 10:56	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 10:56	75-01-4	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-48I **Lab ID: 70211071002** Collected: 04/13/22 11:40 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
Xylene (Total)	**<3.0**		ug/L	3.0	1		04/22/22 10:56	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 10:56	156-59-2	
cis-1,3-Dichloropropene	**<1.0**		ug/L	1.0	1		04/22/22 10:56	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 10:56	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	UJ	ug/L	1.0	1		04/22/22 10:56	10061-02-6	L2,v3
Surrogates									
1,2-Dichloroethane-d4 (S)	91		%	81-122	1		04/22/22 10:56	17060-07-0	
4-Bromofluorobenzene (S)	105		%	79-118	1		04/22/22 10:56	460-00-4	
Toluene-d8 (S)	101		%	82-122	1		04/22/22 10:56	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-46S **Lab ID: 70211071003** Collected: 04/13/22 12:15 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 11:16	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 11:16	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 11:16	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 11:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 11:16	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 11:16	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 11:16	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 11:16	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 11:16	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 11:16	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 11:16	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:16	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-46S **Lab ID: 70211071003** Collected: 04/13/22 12:15 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 11:16	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:16	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:16	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		04/22/22 11:16	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/22/22 11:16	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/22/22 11:16	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-46I **Lab ID: 70211071004** Collected: 04/13/22 14:20 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 11:35	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 11:35	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 11:35	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 11:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 11:35	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 11:35	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 11:35	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 11:35	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 11:35	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 11:35	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 11:35	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:35	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-46I **Lab ID: 70211071004** Collected: 04/13/22 14:20 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 11:35	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:35	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:35	10061-02-6	L2
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		04/22/22 11:35	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/22/22 11:35	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 11:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-44S **Lab ID: 70211071005** Collected: 04/13/22 15:15 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 11:55	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 11:55	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 11:55	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 11:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 11:55	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 11:55	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 11:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 11:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 11:55	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 11:55	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 11:55	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 11:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: SB-44S **Lab ID: 70211071005** Collected: 04/13/22 15:15 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 11:55	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 11:55	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 11:55	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		04/22/22 11:55	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/22/22 11:55	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 11:55	2037-26-5	

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: TRIP BLANK **Lab ID: 70211071006** Collected: 04/13/22 00:00 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 09:58	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 09:58	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 09:58	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 09:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 09:58	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 09:58	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 09:58	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 09:58	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 09:58	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 09:58	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 09:58	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 09:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/13
Pace Project No.: 70211071

Sample: TRIP BLANK **Lab ID: 70211071006** Collected: 04/13/22 00:00 Received: 04/14/22 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 09:58	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 09:58	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 09:58	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		04/22/22 09:58	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		04/22/22 09:58	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		04/22/22 09:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS ALH 1/3/23

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70211175
SAMPLING DATE(S):	April 14, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-44I	70211175001	X
SB-44IMS	70211175001MS	X
SB-42S	70211175002	X
SB-42I	70211175003	X
SB-43S	70211175004	X
Trip Blank	70211175005	X
SB-45S	70211175006	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70211175

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 12/26/21 on instrument 70MSV8 was 0.00186 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 12/26/21 at 19:16 on instrument 70MSV8 was 0.00203 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/22/22 at 07:02 on instrument 70MSV8 was 0.00189 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 4/12/22 at 07:02 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

2-butanone	-30.9%
Cyclohexane	22.2%
Dichlorodifluoromethane	22.2%
Trans-1,3-dichloropropene	26.0%
Methylcyclohexane	21.1%
1,2,3-trichlorobenzene	-29.7%
1,2,4-trichlorobenzene	-22.5%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recovery (%R) for trans-1,3-dichloropropene at 71% was below the QC limits. The results for this compound in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS analysis was performed using sample SB-44I. The Percent Recovery (%R) of methylene chloride at 122% exceeded the QC limit. Since the methylene chloride result for the parent

sample was non-detect, no data qualification was necessary.

Batch MD data were submitted for this SDG. All criteria were net. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-44I **Lab ID: 70211175001** Collected: 04/14/22 10:15 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:01	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:01	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:01	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:01	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 16:01	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:01	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:01	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:01	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 16:01	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-09-2	M1
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:01	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-44I **Lab ID: 70211175001** Collected: 04/14/22 10:15 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:01	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:01	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:01	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/22/22 16:01	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		04/22/22 16:01	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-42S **Lab ID: 70211175002** Collected: 04/14/22 10:55 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:20	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:20	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:20	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:20	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 16:20	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:20	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:20	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:20	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:20	79-20-9	
Methyl-tert-butyl ether	**2.6**	ug/L	1.0	1		04/22/22 16:20	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:20	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-42S **Lab ID: 70211175002** Collected: 04/14/22 10:55 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:20	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:20	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:20	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		04/22/22 16:20	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/22/22 16:20	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/22/22 16:20	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-42I **Lab ID: 70211175003** Collected: 04/14/22 13:10 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:40	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:40	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:40	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:40	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 16:40	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:40	56-23-5	
Chlorobenzene	**1.7**	ug/L	1.0	1		04/22/22 16:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:40	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:40	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:40	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 16:40	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:40	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-42I **Lab ID: 70211175003** Collected: 04/14/22 13:10 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:40	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:40	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:40	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		04/22/22 16:40	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		04/22/22 16:40	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		04/22/22 16:40	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-43S **Lab ID: 70211175004** Collected: 04/14/22 14:50 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:59	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:59	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:59	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:59	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 16:59	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:59	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:59	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 16:59	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:59	75-01-4	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-43S **Lab ID: 70211175004** Collected: 04/14/22 14:50 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:59	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:59	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 16:59	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/22/22 16:59	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		04/22/22 16:59	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 16:59	2037-26-5	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: TRIP BLANK **Lab ID: 70211175005** Collected: 04/14/22 00:00 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 15:22	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 15:22	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 15:22	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 15:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 15:22	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 15:22	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 15:22	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 15:22	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 15:22	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 15:22	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 15:22	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 15:22	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: TRIP BLANK **Lab ID: 70211175005** Collected: 04/14/22 00:00 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 15:22	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:22	156-60-5	
trans-1,3-Dichloropropene	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:22	10061-02-6	L2,v3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		04/22/22 15:22	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		04/22/22 15:22	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/22/22 15:22	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-45S **Lab ID: 70211175006** Collected: 04/14/22 15:20 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	76-13-1	
1,1-Dichloroethane	**3.4**	ug/L	1.0	1		04/22/22 15:41	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-35-4	
1,2,3-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:41	87-61-6	IC,v3
1,2,4-Trichlorobenzene	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:41	120-82-1	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 15:41	106-93-4	IC
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 15:41	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		04/22/22 15:41	78-93-3	v3
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 15:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 15:41	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		04/22/22 15:41	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-27-4	IC
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 15:41	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 15:41	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:41	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:41	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 15:41	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 15:41	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 15:41	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		04/22/22 15:41	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 15:41	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 15:41	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211175

Sample: SB-45S **Lab ID: 70211175006** Collected: 04/14/22 15:20 Received: 04/15/22 10:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
Xylene (Total)	**<3.0**		ug/L	3.0	1		04/22/22 15:41	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 15:41	156-59-2	
cis-1,3-Dichloropropene	**<1.0**		ug/L	1.0	1		04/22/22 15:41	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 15:41	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	UJ	ug/L	1.0	1		04/22/22 15:41	10061-02-6	L2,v3
Surrogates									
1,2-Dichloroethane-d4 (S)	91		%	81-122	1		04/22/22 15:41	17060-07-0	
4-Bromofluorobenzene (S)	103		%	79-118	1		04/22/22 15:41	460-00-4	
Toluene-d8 (S)	100		%	82-122	1		04/22/22 15:41	2037-26-5	

ALH 1/3/23

REPORT OF LABORATORY ANALYSIS

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(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70211321
SAMPLING DATE(S):	April 15, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-45I	70211321001	X
Trip Blank	70211321002	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70211321

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.0038 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound at 31.9% exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/22/22 at 14:29 on instrument 70MSV6 was 0.00285 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Difference (%D) for the standards run on 4/22/22 at 14:29 on instrument 70MSV6 was -27.7% for acetone, which exceeded the 20% QC limit. The non-detect acetone results for both SDG samples were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS / MSD analysis data was submitted for this SDG. One Relative Percent Difference (RPD) exceeded the QC limit. Data qualification based on batch QC results was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211321

Sample: SB-45I **Lab ID: 70211321001** Collected: 04/15/22 12:40 Received: 04/16/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:42	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/22/22 16:42	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:42	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:42	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:42	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:42	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 16:42	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:42	75-01-4	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211321

Sample: SB-45I **Lab ID: 70211321001** Collected: 04/15/22 12:40 Received: 04/16/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:42	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:42	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/22/22 16:42	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		04/22/22 16:42	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211321

Sample: TRIP BLANK **Lab ID: 70211321002** Collected: 04/15/22 00:00 Received: 04/16/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 16:24	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 16:24	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/22/22 16:24	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 16:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 16:24	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/22/22 16:24	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 16:24	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 16:24	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 16:24	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 16:24	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 16:24	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 16:24	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124
Pace Project No.: 70211321

Sample: TRIP BLANK **Lab ID: 70211321002** Collected: 04/15/22 00:00 Received: 04/16/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 16:24	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 16:24	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	81-122	1		04/22/22 16:24	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		04/22/22 16:24	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		04/22/22 16:24	2037-26-5	

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(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70211853
SAMPLING DATE(S):	April 19, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-43D	70211853001	X
SB-47S	70211853002	X
SB-47SMS	70211853002MS	X
SB-47SMSD	70211853002MSD	X
DUP-071922	70211853003	X
Trip Blank	70211853004	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70211853

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.0038 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound at 31.9% exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 4/22/22 at 14:29 on instrument 70MSV6 was 0.00285 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Difference (%D) for the standards run on 4/22/22 at 14:29 on instrument 70MSV6 was -27.7% for acetone, which exceeded the 20% QC limit. The non-detect acetone results for both SDG samples were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis was performed using sample SB-47S. The Relative Percent Difference (RPD) for 1,4-dioxane at 43% exceeded the QC limit. Since the parent sample result for this compound was non-detect, no data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (SB-43D / DUP-041922) was identified as part of this SDG. There were no calculable Relative Percent Difference (RPD). No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: SB-43D **Lab ID: 70211853001** Collected: 04/19/22 13:05 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 17:56	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 17:56	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/22/22 17:56	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 17:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 17:56	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/22/22 17:56	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 17:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 17:56	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 17:56	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 17:56	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 17:56	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 17:56	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: SB-43D **Lab ID: 70211853001** Collected: 04/19/22 13:05 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 17:56	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:56	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/22/22 17:56	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		04/22/22 17:56	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		04/22/22 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: SB-47S **Lab ID: 70211853002** Collected: 04/19/22 15:52 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 17:37	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 17:37	123-91-1	R1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/22/22 17:37	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 17:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 17:37	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/22/22 17:37	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 17:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 17:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 17:37	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 17:37	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 17:37	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 17:37	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: SB-47S **Lab ID: 70211853002** Collected: 04/19/22 15:52 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 17:37	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:37	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/22/22 17:37	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		04/22/22 17:37	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		04/22/22 17:37	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: DUP-041922 **Lab ID: 70211853003** Collected: 04/19/22 00:00 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		04/22/22 18:14	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		04/22/22 18:14	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/22/22 18:14	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/22/22 18:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/22/22 18:14	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		04/22/22 18:14	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/22/22 18:14	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/22/22 18:14	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		04/22/22 18:14	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		04/22/22 18:14	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		04/22/22 18:14	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/22/22 18:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: DUP-041922 **Lab ID: 70211853003** Collected: 04/19/22 00:00 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 18:14	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 18:14	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		04/22/22 18:14	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		04/22/22 18:14	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 18:14	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: TRIP BLANK **Lab ID: 70211853004** Collected: 04/19/22 00:00 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		04/22/22 17:19	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		04/22/22 17:19	123-91-1	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		04/22/22 17:19	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		04/22/22 17:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		04/22/22 17:19	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		04/22/22 17:19	67-64-1	v3
Benzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-25-2	
Bromomethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		04/22/22 17:19	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		04/22/22 17:19	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	74-87-3	
Cyclohexane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	110-82-7	
Dibromochloromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	124-48-1	
Dichlorodifluoromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-71-8	
Ethylbenzene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		04/22/22 17:19	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		04/22/22 17:19	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		04/22/22 17:19	1634-04-4	
Methylcyclohexane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	108-87-2	
Methylene Chloride	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	100-42-5	
Tetrachloroethene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	127-18-4	
Toluene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		04/22/22 17:19	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		04/22/22 17:19	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUIT 4/19
Pace Project No.: 70211853

Sample: TRIP BLANK **Lab ID: 70211853004** Collected: 04/19/22 00:00 Received: 04/21/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/22/22 17:19	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:19	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:19	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		04/22/22 17:19	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/22/22 17:19	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		04/22/22 17:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		04/22/22 17:19	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		04/22/22 17:19	2037-26-5	

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70211968
SAMPLING DATE(S):	April 20, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-47D	70211968001	X
SB-34S	70211938002	X
Trip Blank	70211938003	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70211968

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.0038 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound at 31.9% exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 5/1/22 at 09:38 on instrument 70MSV6 was 0.00307 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 5/1/22 at 09:38 on instrument 70MSV6 exceeded the 20% QC limit for the following compounds:

Acetone	43.4%
2-butanone	22.7%
Chloromethane	28.9%
Methyl acetate	23.8%
Tetrachloroethene	-27.6%

The results for these compounds in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MS / MSD analysis data was submitted for this SDG. Three Percent Recoveries (%Rs) and one Relative Percent Difference (RPD) were outside the QC limits. Data qualification based on batch QC results was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: SB-47D **Lab ID: 70211968001** Collected: 04/20/22 13:30 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/01/22 14:02	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/01/22 14:02	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/01/22 14:02	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/01/22 14:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/01/22 14:02	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/01/22 14:02	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/01/22 14:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/01/22 14:02	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:02	74-87-3	L1
Cyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/01/22 14:02	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:02	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/01/22 14:02	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:02	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/01/22 14:02	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: SB-47D **Lab ID: 70211968001** Collected: 04/20/22 13:30 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/01/22 14:02	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 14:02	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/01/22 14:02	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		05/01/22 14:02	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/01/22 14:02	2037-26-5	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: SB-34S **Lab ID: 70211968002** Collected: 04/20/22 16:00 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/01/22 14:20	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/01/22 14:20	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/01/22 14:20	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/01/22 14:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/01/22 14:20	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/01/22 14:20	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/01/22 14:20	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/01/22 14:20	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:20	74-87-3	L1
Cyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/01/22 14:20	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:20	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/01/22 14:20	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/01/22 14:20	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/01/22 14:20	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: SB-34S **Lab ID: 70211968002** Collected: 04/20/22 16:00 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/01/22 14:20	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 14:20	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/01/22 14:20	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/01/22 14:20	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/01/22 14:20	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: TRIP BLANK **Lab ID: 70211968003** Collected: 04/20/22 16:00 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/01/22 12:30	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/01/22 12:30	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/01/22 12:30	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/01/22 12:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/01/22 12:30	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/01/22 12:30	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/01/22 12:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/01/22 12:30	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:30	74-87-3	L1
Cyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/01/22 12:30	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:30	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/01/22 12:30	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:30	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/01/22 12:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/20
Pace Project No.: 70211968

Sample: TRIP BLANK **Lab ID: 70211968003** Collected: 04/20/22 16:00 Received: 04/21/22 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/01/22 12:30	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 12:30	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		05/01/22 12:30	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/01/22 12:30	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 12:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70212126
SAMPLING DATE(S):	April 21, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC
SB-34D	70212126001	X
SB-34DMS	70212126001MS	X
Trip Blank	70212126002	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace Analytical Laboratory – 70212126

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260C.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 4/14/22 on instrument 70MSV6 was 0.00256 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 4/14/22 at 16:12 on instrument 70MSV6 was 0.0038 for 1,4-dioxane, which was below the 0.050 QC limit and the Percent Difference (%D) for the compound at 31.9% exceeded the 30% QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 5/1/22 at 09:38 on instrument 70MSV6 was 0.00307 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, which were all non-detect, as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 5/1/22 at 09:38 on instrument 70MSV6 exceeded the 20% QC limit for the following compounds:

Acetone	43.4%
2-butanone	22.7%
Chloromethane	28.9%
Methyl acetate	23.8%
Tetrachloroethene	-27.6%

The results for these compounds in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS analysis was performed using sample SB-34D. The Percent Recoveries (%Rs) exceeded the QC limits for the following compounds:

1,1-dichloroethane	127%

Chloromethane	148%
Vinyl chloride	142%

Since the parent sample results for these compounds were non-detect, no data qualification was necessary.

Batch MD analysis data was submitted for this SDG. One Relative Percent Difference (RPD) were outside the QC limits. Data qualification based on batch QC results was not required. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/21
Pace Project No.: 70212126

Sample: SB-34D **Lab ID: 70212126001** Collected: 04/21/22 15:25 Received: 04/23/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-34-3	M1
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/01/22 13:43	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/01/22 13:43	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/01/22 13:43	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/01/22 13:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/01/22 13:43	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/01/22 13:43	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/01/22 13:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/01/22 13:43	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/01/22 13:43	74-87-3	L1,M0
Cyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/01/22 13:43	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		05/01/22 13:43	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/01/22 13:43	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/01/22 13:43	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/01/22 13:43	75-01-4	M1

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Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/21
Pace Project No.: 70212126

Sample: SB-34D **Lab ID: 70212126001** Collected: 04/21/22 15:25 Received: 04/23/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/01/22 13:43	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 13:43	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		05/01/22 13:43	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		05/01/22 13:43	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/01/22 13:43	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/21
Pace Project No.: 70212126

Sample: TRIP BLANK **Lab ID: 70212126002** Collected: 04/21/22 00:00 Received: 04/23/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/01/22 12:48	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/01/22 12:48	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/01/22 12:48	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/01/22 12:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/01/22 12:48	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/01/22 12:48	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/01/22 12:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/01/22 12:48	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:48	74-87-3	L1
Cyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	110-82-7	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-71-8	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/01/22 12:48	98-82-8	
Methyl acetate	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:48	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/01/22 12:48	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	108-87-2	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/01/22 12:48	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/01/22 12:48	75-01-4	

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS 4/21
Pace Project No.: 70212126

Sample: TRIP BLANK **Lab ID: 70212126002** Collected: 04/21/22 00:00 Received: 04/23/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/01/22 12:48	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/01/22 12:48	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/01/22 12:48	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/01/22 12:48	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 12:48	2037-26-5	

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VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory and Pace Con-test
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014, USEPA Region II data validation SOP HW-22 Rev. 5, Validating Volatile Organic Compounds by GC/MS, SW 846 Method 8270D, Dec. 2010,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70212903
SAMPLING DATE(S):	April 27, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC*
MW-12S	70212903001	X	X
MW-13S	70212903002	X	X
MW-10S	70212903003	X	X
MW-10D	70212903004	X	X
MW-10DMS	70212903004MS	X	X
MW-10DMSD	70212903004MSD	X	X
MW-11	70212903005	X	X
MW-9S	70212903006	X	X
MW-9D	70212903007	X	X
MW-1D	70212903008	X	X
MW-14D	70212903009	X	X
MW-8S	70212903010	X	X
MW-8D	70212903011	X	X
Trip Blank	70212903012	X	
DUP-042722	70212903013	X	X

* SVOC – 1,4-dioxane only

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace and Con-test Analytical Laboratory – 70212903

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 5/2/22 on instrument 70MSV8 was 0.00303 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 5/3/22 at 21:52 on instrument 70MSV8 was 0.0029 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 5/3/22 at 21:52 on instrument 70MSV8 exceeded the 30% QC limit for the following compounds:

Acetone	94.0%
Bromomethane	72.5%
2-butanone	39.1%
Dichlorodifluoromethane	39.3%
2-hexanone	48.4%

The positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 5/6/22 at 10:10 on instrument 70MSV8 was 0.0029 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 5/6/22 at 10:10 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

Bromomethane	42.7%
Cyclohexane	-22.2%
Dichlorodifluoromethane	-21.1%
Methylcyclohexane	-33.7%
Tetrachloroethene	-30.9%

All positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections reported in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. The Percent Recovery (%R) for bromomethane at 144% exceeded the QC limits. Since there were no positive results for this compound in the SDG samples, no data qualification was necessary

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses were performed using sample MW-10D. The Percent Recoveries (%Rs) for 1,1,1-trichloroethane (124%) and bromomethane (153%) and the Relative Percent Differences (RPDs) for 1,2,3-trichlorobenzene (21%), 1,2,4-trichlorobenzene (21%), bromomethane (29%) and trans-1,2-dichloroethene (21%) all exceeded the QC limits. Since the parent sample results for these compounds were all non-detect, no data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-10S / DUP-042722) was identified for this fraction of the SDG. The calculable RPD were:

1,1-dichloroethane	15%
1,1-dichloroethene	1.7%
Chloroethane	18%
Dichlorodifluoromethane	14%
Vinyl chloride	14%
Cis-1,2-dichloroethene	5.7%

All RPD were within the QC limit. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

SEMIVOLATILE ORGANICS (SVOC)

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per SW 846 Method 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

The 14 days between sample collection and extraction for the re-extraction of sample MW-12S exceeded the 7-day QC limit. The positive result for this sample was qualified as estimated (J).

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses data was performed using sample MW-10D. Since the parent sample result was greater than 4X the spike concentration, the results were not considered meaningful. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (MW-10S / DUP-042722) identified as part of this SDG. The calculable RPD was 0%, which was within the QC limit. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The result for sample MW-12S exceeded the linear calibration range of the instrument. The lab reanalyzed the sample outside of holding times. The positive result for the initial analysis was qualified as estimated (J) and based on the holding times is considered to be of preferable data quality to the reanalysis of the sample.

All other CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-12S **Lab ID: 70212903001** Collected: 04/27/22 11:55 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	76-13-1	
1,1-Dichloroethane	**4020**	ug/L	100	100		05/06/22 17:56	75-34-3	
1,1-Dichloroethene	**127**	ug/L	1.0	1		05/06/22 13:44	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 13:44	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	95-50-1	
1,2-Dichloroethane	**3.6**	ug/L	1.0	1		05/06/22 13:44	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	106-46-7	
1,4-Dioxane (p-Dioxane)	**125** J	ug/L	100	1		05/06/22 13:44	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:44	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 13:44	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:44	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:44	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 13:44	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	108-90-7	
Chloroethane	**34.7**	ug/L	1.0	1		05/06/22 13:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 13:44	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:44	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:44	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 13:44	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 13:44	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:44	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:44	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-69-4	
Vinyl chloride	**20.8**	ug/L	1.0	1		05/06/22 13:44	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-12S **Lab ID: 70212903001** Collected: 04/27/22 11:55 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 13:44	1330-20-7	
cis-1,2-Dichloroethene	**10.2**	ug/L	1.0	1		05/06/22 13:44	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 13:44	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/06/22 13:44	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/06/22 13:44	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-13S **Lab ID: 70212903002** Collected: 04/27/22 13:05 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	76-13-1	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		05/06/22 18:34	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 18:34	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 18:34	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 18:34	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 18:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 18:34	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 18:34	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 18:34	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	108-90-7	
Chloroethane	**5.7**	ug/L	1.0	1		05/06/22 18:34	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 18:34	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 18:34	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	124-48-1	
Dichlorodifluoromethane	**6.8** J	ug/L	1.0	1		05/06/22 18:34	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 18:34	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 18:34	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 18:34	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/06/22 18:34	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-13S **Lab ID: 70212903002** Collected: 04/27/22 13:05 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 18:34	1330-20-7	
cis-1,2-Dichloroethene	**3.8**	ug/L	1.0	1		05/06/22 18:34	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 18:34	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 18:34	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/06/22 18:34	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10S **Lab ID: 70212903003** Collected: 04/27/22 11:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	76-13-1	
1,1-Dichloroethane	**320**		ug/L	5.0	5		05/06/22 17:36	75-34-3	
1,1-Dichloroethene	**17.1**		ug/L	1.0	1		05/06/22 14:23	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 14:23	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 14:23	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:23	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 14:23	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:23	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 14:23	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:23	74-83-9	L1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 14:23	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 14:23	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	108-90-7	
Chloroethane	**6.5**		ug/L	1.0	1		05/06/22 14:23	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 14:23	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:23	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	124-48-1	
Dichlorodifluoromethane	**1.3**	J	ug/L	1.0	1		05/06/22 14:23	75-71-8	IH,v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 14:23	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 14:23	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 14:23	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:23	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 14:23	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	100-42-5	
Tetrachloroethene	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:23	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 14:23	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:23	75-69-4	
Vinyl chloride	**2.3**		ug/L	1.0	1		05/06/22 14:23	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10S **Lab ID: 70212903003** Collected: 04/27/22 11:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 14:23	1330-20-7	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		05/06/22 14:23	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/06/22 14:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/06/22 14:23	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		05/06/22 14:23	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10D **Lab ID: 70212903004** Collected: 04/27/22 09:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	71-55-6	M1
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	76-13-1	
1,1-Dichloroethane	**64.4**		ug/L	1.0	1		05/06/22 14:42	75-34-3	
1,1-Dichloroethene	**4.8**		ug/L	1.0	1		05/06/22 14:42	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	87-61-6	R1
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	120-82-1	R1
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 14:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 14:42	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:42	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 14:42	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 14:42	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:42	74-83-9	L1,M0, R1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 14:42	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 14:42	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:42	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	124-48-1	
Dichlorodifluoromethane	**1.5**	J	ug/L	1.0	1		05/06/22 14:42	75-71-8	IH,v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 14:42	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 14:42	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 14:42	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:42	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	100-42-5	
Tetrachloroethene	**<1.0**	UJ	ug/L	1.0	1		05/06/22 14:42	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 14:42	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 14:42	75-69-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10D **Lab ID: 70212903004** Collected: 04/27/22 09:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**1.4**	ug/L	1.0	1		05/06/22 14:42	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 14:42	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	156-60-5	M1,R1
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 14:42	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 14:42	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 14:42	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1 **Lab ID: 70212903005** Collected: 04/27/22 14:20 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:01	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 15:01	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:01	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:01	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:01	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:01	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:01	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:01	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:01	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:01	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:01	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:01	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	100-42-5	
Tetrachloroethene	**825** J	ug/L	10.0	10		05/06/22 18:15	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	108-88-3	
Trichloroethene	**33.0**	ug/L	1.0	1		05/06/22 15:01	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1 **Lab ID: 70212903005** Collected: 04/27/22 14:20 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:01	1330-20-7	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	1		05/06/22 15:01	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		05/06/22 15:01	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 15:01	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/06/22 15:01	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9S **Lab ID: 70212903006** Collected: 04/27/22 13:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	76-13-1	
1,1-Dichloroethane	**5.9**	ug/L	1.0	1		05/06/22 15:21	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:21	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 15:21	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:21	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:21	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:21	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:21	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:21	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:21	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	124-48-1	
Dichlorodifluoromethane	**2.3** J	ug/L	1.0	1		05/06/22 15:21	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:21	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:21	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:21	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	100-42-5	
Tetrachloroethene	**121** J	ug/L	1.0	1		05/06/22 15:21	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	108-88-3	
Trichloroethene	**24.1**	ug/L	1.0	1		05/06/22 15:21	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9S **Lab ID: 70212903006** Collected: 04/27/22 13:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:21	1330-20-7	
cis-1,2-Dichloroethene	**6.3**	ug/L	1.0	1		05/06/22 15:21	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/06/22 15:21	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 15:21	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 15:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9D **Lab ID: 70212903007** Collected: 04/27/22 14:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	76-13-1	
1,1-Dichloroethane	**78.5**	ug/L	1.0	1		05/06/22 15:40	75-34-3	
1,1-Dichloroethene	**2.1**	ug/L	1.0	1		05/06/22 15:40	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:40	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 15:40	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:40	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:40	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 15:40	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:40	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:40	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:40	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	124-48-1	
Dichlorodifluoromethane	**38.4** J	ug/L	1.0	1		05/06/22 15:40	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:40	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:40	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:40	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/06/22 15:40	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9D **Lab ID: 70212903007** Collected: 04/27/22 14:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:40	1330-20-7	
cis-1,2-Dichloroethene	**3.4**	ug/L	1.0	1		05/06/22 15:40	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 15:40	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 15:40	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/06/22 15:40	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1D **Lab ID: 70212903008** Collected: 04/27/22 15:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 16:00	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 16:00	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:00	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 16:00	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:00	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:00	74-83-9	L1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 16:00	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 16:00	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:00	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	124-48-1	
Dichlorodifluoromethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:00	75-71-8	v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 16:00	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 16:00	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 16:00	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:00	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	100-42-5	
Tetrachloroethene	**184**	J	ug/L	1.0	1		05/06/22 16:00	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 16:00	108-88-3	
Trichloroethene	**26.9**		ug/L	1.0	1		05/06/22 16:00	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		05/06/22 16:00	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1D **Lab ID: 70212903008** Collected: 04/27/22 15:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:00	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 16:00	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:00	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/06/22 16:00	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-14D **Lab ID: 70212903009** Collected: 04/27/22 16:45 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 16:19	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 16:19	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 16:19	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 16:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 16:19	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 16:19	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 16:19	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 16:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 16:19	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 16:19	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 16:19	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 16:19	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 16:19	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/06/22 16:19	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-14D **Lab ID: 70212903009** Collected: 04/27/22 16:45 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:19	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 16:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:19	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8S **Lab ID: 70212903010** Collected: 04/27/22 15:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	79-00-5	
1,1,2-Trichlorotrifluoroethane	**191**		ug/L	2.0	2		05/06/22 18:54	76-13-1	
1,1-Dichloroethane	**265**		ug/L	2.0	2		05/06/22 18:54	75-34-3	
1,1-Dichloroethene	**53.8**		ug/L	1.0	1		05/06/22 16:38	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 16:38	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	95-50-1	
1,2-Dichloroethane	**2.1**		ug/L	1.0	1		05/06/22 16:38	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 16:38	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:38	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 16:38	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:38	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:38	74-83-9	L1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 16:38	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 16:38	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:38	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	124-48-1	
Dichlorodifluoromethane	**194**	J	ug/L	1.0	1		05/06/22 16:38	75-71-8	IH,v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 16:38	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 16:38	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 16:38	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:38	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	100-42-5	
Tetrachloroethene	**186**	J	ug/L	1.0	1		05/06/22 16:38	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 16:38	108-88-3	
Trichloroethene	**42.3**		ug/L	1.0	1		05/06/22 16:38	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:38	75-69-4	
Vinyl chloride	**1.4**		ug/L	1.0	1		05/06/22 16:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8S **Lab ID: 70212903010** Collected: 04/27/22 15:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:38	1330-20-7	
cis-1,2-Dichloroethene	**67.6**	ug/L	1.0	1		05/06/22 16:38	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	10061-01-5	
trans-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		05/06/22 16:38	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 16:38	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/06/22 16:38	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8D **Lab ID: 70212903011** Collected: 04/27/22 16:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	76-13-1	
1,1-Dichloroethane	**45.5**		ug/L	1.0	1		05/06/22 16:58	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 16:58	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 16:58	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:58	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 16:58	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 16:58	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:58	74-83-9	L1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 16:58	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 16:58	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:58	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	124-48-1	
Dichlorodifluoromethane	**24.0**	J	ug/L	1.0	1		05/06/22 16:58	75-71-8	IH,v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 16:58	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 16:58	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 16:58	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:58	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	100-42-5	
Tetrachloroethene	**<1.0**	UJ	ug/L	1.0	1		05/06/22 16:58	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 16:58	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-69-4	
Vinyl chloride	**<1.0**		ug/L	1.0	1		05/06/22 16:58	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8D **Lab ID: 70212903011** Collected: 04/27/22 16:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:58	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 16:58	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:58	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: TRIP BLANK **Lab ID: 70212903012** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 13:25	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/06/22 13:25	123-91-1	
2-Butanone (MEK)	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:25	78-93-3	
2-Hexanone	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 13:25	108-10-1	
Acetone	**<5.0** UJ	ug/L	5.0	1		05/06/22 13:25	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:25	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 13:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	74-87-3	
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:25	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 13:25	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 13:25	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:25	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/06/22 13:25	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: TRIP BLANK **Lab ID: 70212903012** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 13:25	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/06/22 13:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 13:25	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/06/22 13:25	2037-26-5	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: DUP-042722 **Lab ID: 70212903013** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	76-13-1	
1,1-Dichloroethane	**274**		ug/L	3.0	3		05/06/22 19:13	75-34-3	
1,1-Dichloroethene	**17.4**		ug/L	1.0	1		05/06/22 17:17	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/06/22 17:17	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/06/22 17:17	123-91-1	
2-Butanone (MEK)	**<5.0**	UJ	ug/L	5.0	1		05/06/22 17:17	78-93-3	
2-Hexanone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 17:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**		ug/L	5.0	1		05/06/22 17:17	108-10-1	
Acetone	**<5.0**	UJ	ug/L	5.0	1		05/06/22 17:17	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/06/22 17:17	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 17:17	74-83-9	L1
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/06/22 17:17	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/06/22 17:17	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	108-90-7	
Chloroethane	**5.4**		ug/L	1.0	1		05/06/22 17:17	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/06/22 17:17	67-66-3	
Chloromethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	74-87-3	
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 17:17	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	124-48-1	
Dichlorodifluoromethane	**1.5**	J	ug/L	1.0	1		05/06/22 17:17	75-71-8	IH,v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/06/22 17:17	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/06/22 17:17	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/06/22 17:17	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/06/22 17:17	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/06/22 17:17	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	100-42-5	
Tetrachloroethene	**<1.0**	UJ	ug/L	1.0	1		05/06/22 17:17	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	108-88-3	
Trichloroethene	**<1.0**		ug/L	1.0	1		05/06/22 17:17	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/06/22 17:17	75-69-4	
Vinyl chloride	**2.0**		ug/L	1.0	1		05/06/22 17:17	75-01-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: DUP-042722 **Lab ID: 70212903013** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 17:17	1330-20-7	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	1		05/06/22 17:17	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/06/22 17:17	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 17:17	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 17:17	2037-26-5	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-12S Sampled: 4/27/2022 11:55

Sample ID: 22E0086-01

Sample Matrix: Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	110 J	1.0	µg/L	1		SW-846 8270E	5/11/22	5/12/22 16:06	IMR
1,4-Dioxane	120 J	0.19	µg/L	1	E	SW-846 8270E	5/4/22	5/9/22 17:00	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.9	15-110		5/9/22 17:00
1,4-Dioxane-d8	50.8	15-110		5/12/22 16:06

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-13S Sampled: 4/27/2022 13:05

Sample ID: 22E0086-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	48	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:20	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	21.7	15-110					5/9/22 17:20

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-10S Sampled: 4/27/2022 11:07

Sample ID: 22E0086-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	11	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:39	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.1	15-110		5/9/22 17:39

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-10D Sampled: 4/27/2022 09:30

Sample ID: 22E0086-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	92	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:59	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.5	15-110		5/9/22 17:59

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-1 Sampled: 4/27/2022 14:20

Sample ID: 22E0086-05

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 18:37	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	20.9	15-110					5/9/22 18:37

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-9S Sampled: 4/27/2022 13:07

Sample ID: 22E0086-06

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.65	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 18:56	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	26.5	15-110		5/9/22 18:56

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-9D Sampled: 4/27/2022 14:07

Sample ID: 22E0086-07

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.9	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:16	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	22.9	15-110		5/9/22 19:16

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-1D Sampled: 4/27/2022 15:30

Sample ID: 22E0086-08

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.24	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:35	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.2	15-110		5/9/22 19:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-14D Sampled: 4/27/2022 16:45

Sample ID: 22E0086-09

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:55	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	22.3	15-110		5/9/22 19:55

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-8S Sampled: 4/27/2022 15:17

Sample ID: 22E0086-10

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.54	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:14	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.4	15-110		5/9/22 20:14

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-8D Sampled: 4/27/2022 16:17

Sample ID: 22E0086-11

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.1	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:34	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.0	15-110		5/9/22 20:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: DUP-042722 Sampled: 4/27/2022 00:00

Sample ID: 22E0086-12

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	11	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:54	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.0	15-110		5/9/22 20:54

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	Clifton Park
CONTRACTED LAB:	Pace Analytical Laboratory and Pace Con-test
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW 846 Methods
VALIDATION GUIDELINES:	*USEPA Region II data validation SOP HW-24 Rev. 4, Validating Volatile Organic Compounds by GC/MS, SW 846 Methods 8260B and 8260C, Sept. 2014, USEPA Region II data validation SOP HW-22 Rev. 5, Validating Volatile Organic Compounds by GC/MS, SW 846 Method 8270D, Dec. 2010,* Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOC)
DATA REVIEWER(S):	Amy L. Hogan
SDG NUMBER:	70212974
SAMPLING DATE(S):	April 28, 2022

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC*
HRP-MW2	70212974001	X	X
HRP-MW1	70212974002	X	X
HRP-MW4	70212974003	X	X
MW-6S	70212974004	X	X
MW-6D	70212974005	X	X
HRP-MW3	70212974006	X	X
Trip Blank	70212974007	X	
DUP-042822	70212974008	X	X

* SVOC – 1,4-dioxane only

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

Pace and Con-test Analytical Laboratory – 70212974

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per SW 846 Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The average Relative Response Factor (RRF) for the standards analyzed on 5/2/22 on instrument 70MSV8 was 0.00303 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

Initial Calibration Verification:

The Relative Response Factor (RRF) for the standards run on 5/3/22 at 21:52 on instrument 70MSV8 was 0.0029 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 5/3/22 at 21:52 on instrument 70MSV8 exceeded the 30% QC limit for the following compounds:

Acetone	94.0%
Bromomethane	72.5%
2-butanone	39.1%
Dichlorodifluoromethane	39.3%
2-hexanone	48.4%

The positive and non-detect results for these compounds in the SDG samples were qualified as estimated (J) and (UJ).

Continuing Calibration:

The Relative Response Factor (RRF) for the standards run on 5/10/22 at 08:35 on instrument 70MSV8 was 0.0032 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the 1,4-dioxane results for the samples, except MW-6D, as estimated (J) and (UJ).

The Percent Differences (%Ds) for the standards run on 5/10/22 at 08:35 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

Bromomethane	-29.5%
Chloromethane	-22.5%
Cyclohexane	-26.3%
Dichlorodifluoromethane	-20.4%
Methylcyclohexane	-34.7%
4-methyl-2-pentanone	21.9%
Tetrachloroethene	-30.9%

All positive and non-detect results for these compounds in the SDG samples ,except MW-6D, were qualified as estimated (J) and (UJ).

The Relative Response Factor (RRF) for the standards run on 5/11/22 at 08:01 on instrument 70MSV8 was 0.00328 for 1,4-dioxane, which was below the 0.050 QC limit. Since the compound is a known poor performer and citing professional judgment, the validator qualified the non-detect 1,4-dioxane result for associated sample MW-6D as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 5/11/22 at 08:01 on instrument 70MSV8 exceeded the 20% QC limit for the following compounds:

Bromomethane	24.2%
Chloroethane	-20.4%
Chloromethane	-28.6%
Cyclohexane	-23.6%
Dichlorodifluoromethane	-41.7%
Methylcyclohexane	-25.9%
Tetrachloroethene	-33.9%
Vinyl chloride	-21.4%

All positive and non-detect results for these compounds in associated sample MW-6D were qualified as estimated (J) and (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blank:

There were no detections reported in the associated trip blank for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Batch MD analysis data was submitted for this fraction of the SDG. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (HRP-MW1 / DUP-042822) was identified for this fraction of the SDG. There were no calculable RPD or differences, so no data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

SEMIVOLATILE ORGANICS (SVOC)

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per SW 846 Method 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS/ MSD analyses data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (HRP-MW1 / DUP-042822) identified as part of this SDG. There was no calculable RPD, so no data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW2 **Lab ID: 70212974001** Collected: 04/28/22 09:35 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 15:49	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 15:49	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 15:49	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 15:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 15:49	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 15:49	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 15:49	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 15:49	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 15:49	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:49	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW2 **Lab ID: 70212974001** Collected: 04/28/22 09:35 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 15:49	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 15:49	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 15:49	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 15:49	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW1 **Lab ID: 70212974002** Collected: 04/28/22 10:55 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 16:08	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 16:08	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 16:08	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 16:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 16:08	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 16:08	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:08	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 16:08	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:08	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:08	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 16:08	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 16:08	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:08	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:08	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW1 **Lab ID: 70212974002** Collected: 04/28/22 10:55 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:08	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		05/10/22 16:08	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 16:08	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW4 **Lab ID: 70212974003** Collected: 04/28/22 12:20 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	**3.0**	ug/L	1.0	1		05/10/22 16:28	76-13-1	
1,1-Dichloroethane	**1.5**	ug/L	1.0	1		05/10/22 16:28	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 16:28	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 16:28	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 16:28	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 16:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 16:28	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 16:28	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 16:28	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 16:28	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 16:28	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 16:28	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW4 **Lab ID: 70212974003** Collected: 04/28/22 12:20 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:28	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 16:28	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 16:28	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6S **Lab ID: 70212974004** Collected: 04/28/22 14:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville								
1,1,1-Trichloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	79-34-5	
1,1,2-Trichloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	76-13-1	
1,1-Dichloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-34-3	
1,1-Dichloroethene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**		ug/L	1.0	1		05/10/22 16:47	106-93-4	
1,2-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	95-50-1	
1,2-Dichloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	107-06-2	
1,2-Dichloropropane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	78-87-5	
1,3-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	541-73-1	
1,4-Dichlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	UJ	ug/L	100	1		05/10/22 16:47	123-91-1	
2-Butanone (MEK)	**<5.0**		ug/L	5.0	1		05/10/22 16:47	78-93-3	
2-Hexanone	**<5.0**		ug/L	5.0	1		05/10/22 16:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	UJ	ug/L	5.0	1		05/10/22 16:47	108-10-1	
Acetone	**<5.0**		ug/L	5.0	1		05/10/22 16:47	67-64-1	
Benzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	71-43-2	
Bromochloromethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	74-97-5	
Bromodichloromethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-27-4	
Bromoform	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-25-2	
Bromomethane	**<1.0**	UJ	ug/L	1.0	1		05/10/22 16:47	74-83-9	
Carbon disulfide	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-15-0	
Carbon tetrachloride	**<1.0**		ug/L	1.0	1		05/10/22 16:47	56-23-5	
Chlorobenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	108-90-7	
Chloroethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-00-3	
Chloroform	**<1.0**		ug/L	1.0	1		05/10/22 16:47	67-66-3	
Chloromethane	**<1.0**	UJ	ug/L	1.0	1		05/10/22 16:47	74-87-3	v3
Cyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/10/22 16:47	110-82-7	v3
Dibromochloromethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	124-48-1	
Dichlorodifluoromethane	**<1.0**	UJ	ug/L	1.0	1		05/10/22 16:47	75-71-8	v3
Ethylbenzene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**		ug/L	1.0	1		05/10/22 16:47	98-82-8	
Methyl acetate	**<1.0**		ug/L	1.0	1		05/10/22 16:47	79-20-9	
Methyl-tert-butyl ether	**<1.0**		ug/L	1.0	1		05/10/22 16:47	1634-04-4	
Methylcyclohexane	**<1.0**	UJ	ug/L	1.0	1		05/10/22 16:47	108-87-2	v3
Methylene Chloride	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-09-2	
Styrene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	100-42-5	
Tetrachloroethene	**13.7**	J	ug/L	1.0	1		05/10/22 16:47	127-18-4	v3
Toluene	**<1.0**		ug/L	1.0	1		05/10/22 16:47	108-88-3	
Trichloroethene	**28.8**		ug/L	1.0	1		05/10/22 16:47	79-01-6	
Trichlorofluoromethane	**<1.0**		ug/L	1.0	1		05/10/22 16:47	75-69-4	
Vinyl chloride	**1.0**		ug/L	1.0	1		05/10/22 16:47	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6S **Lab ID: 70212974004** Collected: 04/28/22 14:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:47	1330-20-7	
cis-1,2-Dichloroethene	**82.1**	ug/L	1.0	1		05/10/22 16:47	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 16:47	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 16:47	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6D **Lab ID: 70212974005** Collected: 04/28/22 15:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	**213**	ug/L	2.0	2		05/11/22 13:00	76-13-1	
1,1-Dichloroethane	**85.1**	ug/L	1.0	1		05/10/22 17:06	75-34-3	
1,1-Dichloroethene	**4.1**	ug/L	1.0	1		05/10/22 17:06	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:06	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 17:06	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:06	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 17:06	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:06	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:06	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:06	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	108-90-7	
Chloroethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:06	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:06	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:06	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:06	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	124-48-1	
Dichlorodifluoromethane	**217** J	ug/L	2.0	2		05/11/22 13:00	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:06	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:06	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:06	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	100-42-5	
Tetrachloroethene	**143** J	ug/L	1.0	1		05/10/22 17:06	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	108-88-3	
Trichloroethene	**23.5**	ug/L	1.0	1		05/10/22 17:06	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-69-4	
Vinyl chloride	**1.5** J	ug/L	1.0	1		05/10/22 17:06	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6D **Lab ID: 70212974005** Collected: 04/28/22 15:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:06	1330-20-7	
cis-1,2-Dichloroethene	**18.7**	ug/L	1.0	1		05/10/22 17:06	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 17:06	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 17:06	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 17:06	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW3 **Lab ID: 70212974006** Collected: 04/28/22 16:50 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:25	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 17:25	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:25	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 17:25	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:25	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:25	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:25	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:25	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:25	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-01-4	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW3 **Lab ID: 70212974006** Collected: 04/28/22 16:50 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:25	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		05/10/22 17:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 17:25	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 17:25	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: TRIP BLANK **Lab ID: 70212974007** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 15:30	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 15:30	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 15:30	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 15:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 15:30	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 15:30	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 15:30	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 15:30	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 15:30	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 15:30	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-01-4	

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: TRIP BLANK **Lab ID: 70212974007** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 15:30	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 15:30	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 15:30	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: DUP-042822 **Lab ID: 70212974008** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:45	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100** UJ	ug/L	100	1		05/10/22 17:45	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:45	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0** UJ	ug/L	5.0	1		05/10/22 17:45	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:45	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-25-2	
Bromomethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:45	67-66-3	
Chloromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	74-87-3	v3
Cyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	124-48-1	
Dichlorodifluoromethane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:45	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:45	1634-04-4	
Methylcyclohexane	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	100-42-5	
Tetrachloroethene	**<1.0** UJ	ug/L	1.0	1		05/10/22 17:45	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: DUP-042822 **Lab ID: 70212974008** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:45	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 17:45	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/10/22 17:45	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 17:45	2037-26-5	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW2 Sampled: 4/28/2022 09:35

Sample ID: 22E0091-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.33	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 21:58	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.6	15-110		5/12/22 21:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW1 Sampled: 4/28/2022 10:55

Sample ID: 22E0091-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:18	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.6	15-110		5/12/22 22:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW4 Sampled: 4/28/2022 12:20

Sample ID: 22E0091-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.27	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:37	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.8	15-110		5/12/22 22:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: MW-6S Sampled: 4/28/2022 14:45

Sample ID: 22E0091-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.41	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:56	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.7	15-110		5/12/22 22:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: MW-6D Sampled: 4/28/2022 15:45

Sample ID: 22E0091-05

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.6	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:16	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.3	15-110		5/12/22 23:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW3 Sampled: 4/28/2022 16:50

Sample ID: 22E0091-06

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:35	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	20.2	15-110		5/12/22 23:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: DUP-042822 Sampled: 4/28/2022 00:00

Sample ID: 22E0091-07

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:54	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	20.7	15-110		5/12/22 23:54

Appendix I

Slug Test Data Sheets

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits Project No: 30053689 Page: 1 of 1

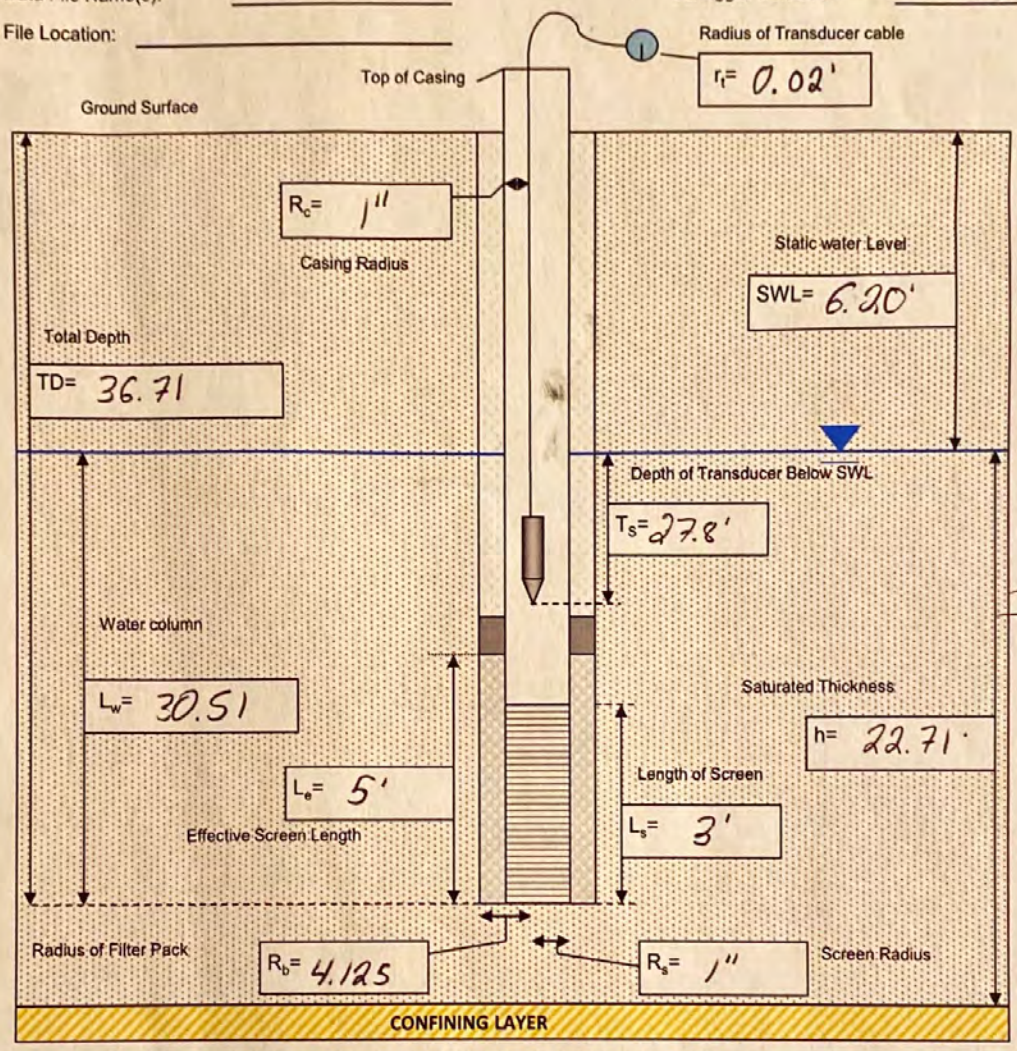
Test Well ID: MW-20D Observation Well ID (if different): _____ Date: 8-3-22

Completed By: D. Meandro Weather: 85° Sunny

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 581079

Data File Name(s): _____ Barologger Serial No (if used): 643549

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer 34' from TIC

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 = 7.48 gallons
1 gallon = 3.785 Liters
1 psi = 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-20D-F2	Test Number:	MW-20D-R2
Test Duration:	1 min 20 sec	Test Duration:	2 min
Start Test Time:	1203	Start Test Time:	1205
End Time:	1204:20	End Time:	1207
Rising / Falling (circle)		Rising / Falling (circle)	
Slug Volume:	0.328	Slug Volume:	0.328
SWL Time / Depth (ft)	1202 / 6.20	SWL Time / Depth (ft)	1204 / 6.20'
T_s Baseline Depth & Pressure:	27.8 -	T_s Baseline Depth & Pressure:	27.8 -
Max. Displacement (H_0) :	2.04	Max. Displacement (H_0) :	2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)	Time	Depth to Water (ft)
12 03 28	5.95	12 05 20	6.50
12 03 43	6.14	12 05 30	6.33
12 03 52	6.18	12 05 38	6.25
12 04 07	6.20	12 05 51	6.23
		12 06 07	6.22
		12 06 24	6.21
		12 06 58	6.20

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$H_0 = \frac{0.044\ ft^3}{0.0216\ ft^2} = 0.0216\ ft^2$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

ARCADIS

SLUG TEST DATA

Test Number:	MW-200F1	Test Duration:	2
Start Test Time:	1156	End Time:	1158
Rising / Falling (circle)		Slug Volume:	0.328 gal
SWL Time / Depth (ft)	1155		16.20'
T_s Baseline Depth & Pressure:			27.9
Max. Displacement (H_0) :			2.04

Test Number:	MW-200R1	Test Duration:	2
Start Test Time:	1159	End Time:	1201
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)			1158 / 6.20'
T_s Baseline Depth & Pressure:			27.8
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)	Time	Depth to Water (ft)
11 56 36	5.94	11 59 15	6.45
11 56 55	6.16	11 59 30	6.36
11 57 05	6.19	11 59 45	6.23
11 57 52	6.20	12 00 39	6.20

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

(7)

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits Project No: 30053699 Page: 1 of 1

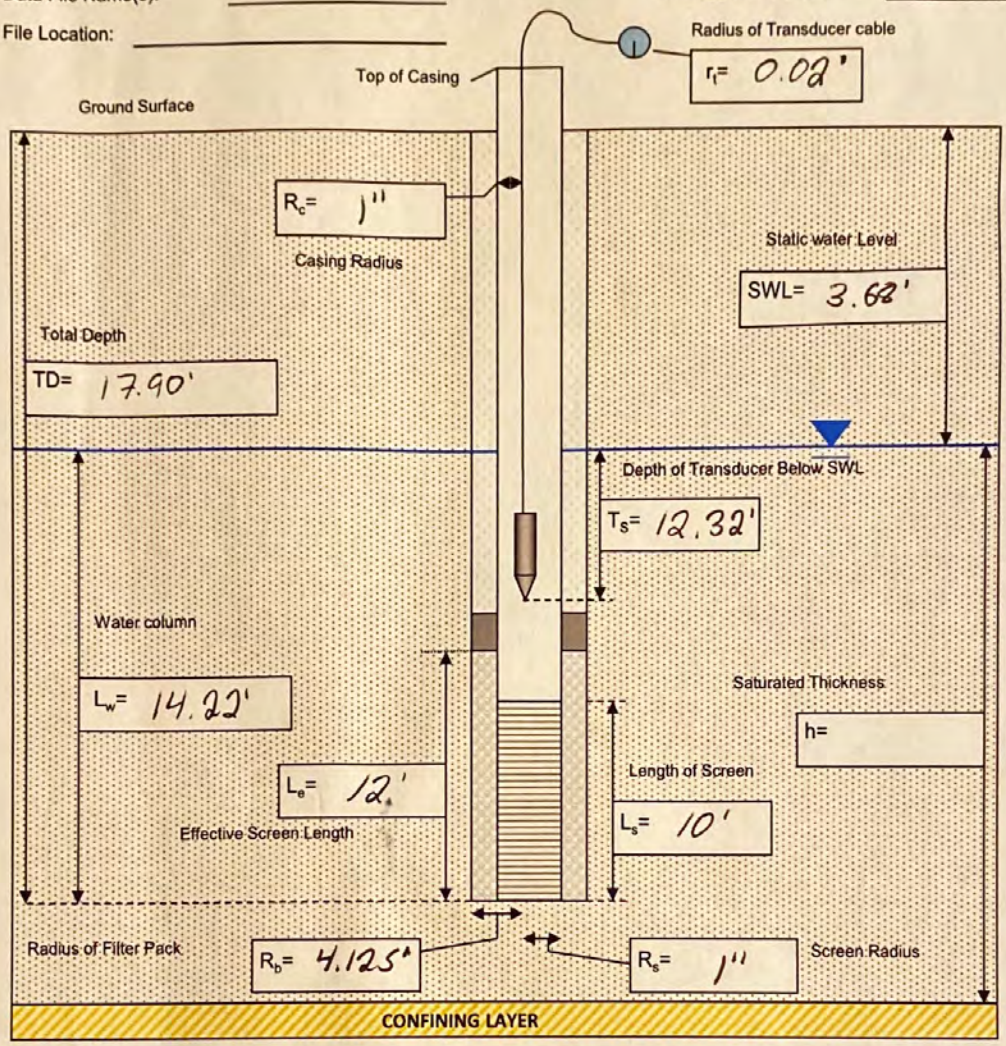
Test Well ID: MW-20S Observation Well ID (if different): _____ Date: 8-3-22

Completed By: D. Mecardo Weather: 85° Sunny

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 581079

Data File Name(s): _____ Barologger Serial No (if used): 643649

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer 16' from TOC

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 ≈ 7.48 gallons
1 gallon ≈ 3.785 Liters
1 psi ≈ 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-20S-F1	Test Duration:	29
Start Test Time:	1256	End Time:	1324
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1254		3.66
T_s Baseline Depth & Pressure:			12.32 -
Max. Displacement (H_0) :			2.04

Test Number:	MW-20S-R1	Test Duration:	27
Start Test Time:	1325	End Time:	1352
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1324:07		3.65
T_s Baseline Depth & Pressure:			12.32
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)	Time	Depth to Water (ft)
12 56 10	2.02	13 25 15	5.30
12 56 24	2.19	25 33	2.20
12 56 32	2.32	25 39	3.15
12 56 50	2.40	25 52	5.05
12 57 02	2.50	26 07	4.95
12 57 18	2.60	26 17	4.90
12 57 36	2.70	26 27	4.85
12 57 56	2.80	26 37	4.80
12 58 21	2.90	26 48	4.75
12 58 50	3.00	26 59	4.70
12 59 24	3.10	27 25	4.60
13 00 14	3.20	27.50	4.50
13 01 11	3.30	28:23	4.40
13 02 34	3.40	13 28 58	4.30
13 04 27	3.50	13 29 47	4.26
13 09 58	3.60	13 30 45	4:10
13 14 44	3.63	13 31 51	4.00
13 19 30	3.64	13 33 35	3.90
13 23 07	3.63	13 36 38	3.80
		13 48 24	3.70
		13 51 15	3.69

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST DATA

Test Number:	MW-205-F2	Test Duration:	23
Start Test Time:	1353	End Time:	1416
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1352		3.69
T_0 Baseline Depth & Pressure:			12.32
Max. Displacement (H_0) :			2.04

Test Number:	MW-205-R2	Test Duration:	
Start Test Time:	1417	End Time:	14 47 30
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1417		3.65
T_0 Baseline Depth & Pressure:			12.32
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)	Time	Depth to Water (ft)
13 53 20	2.22	14 17 17	5.30
13 53 33	2.32	14 17 27	5.2
13 53 47	2.42	14 17 37	5.11
13 53 56	2.50	14 17 53	5.00
13 54 13	2.59	14 18 12	4.90
13 54 25	2.65	14 18 31	4.80
13 54 37	2.72	14 19 51	4.70
13 54 51	2.80	14 19 16	4.6
13 55 20	2.90	14 19 41	4.5
13 55 49	3.00	14 20 12	4.4
13 56 34	3.12	14 20 42	4.3
13 57 12	3.20	14 21 32	4.2
13 58 06	3.30	14 22 26	4.1
13 59 20	3.40	14 23 32	4.0
14 01 17	3.50	14 25 08	3.9
14 07 26	3.60	14 27 45	3.8
14 09 05	3.62	14 36 05	3.7
14 15 32	3.65	14 47 23	3.69

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

ARCADIS

SLUG TEST LOG

Site Name: Northern Crawford | Project No: 30053689 | Page: 1 of 1

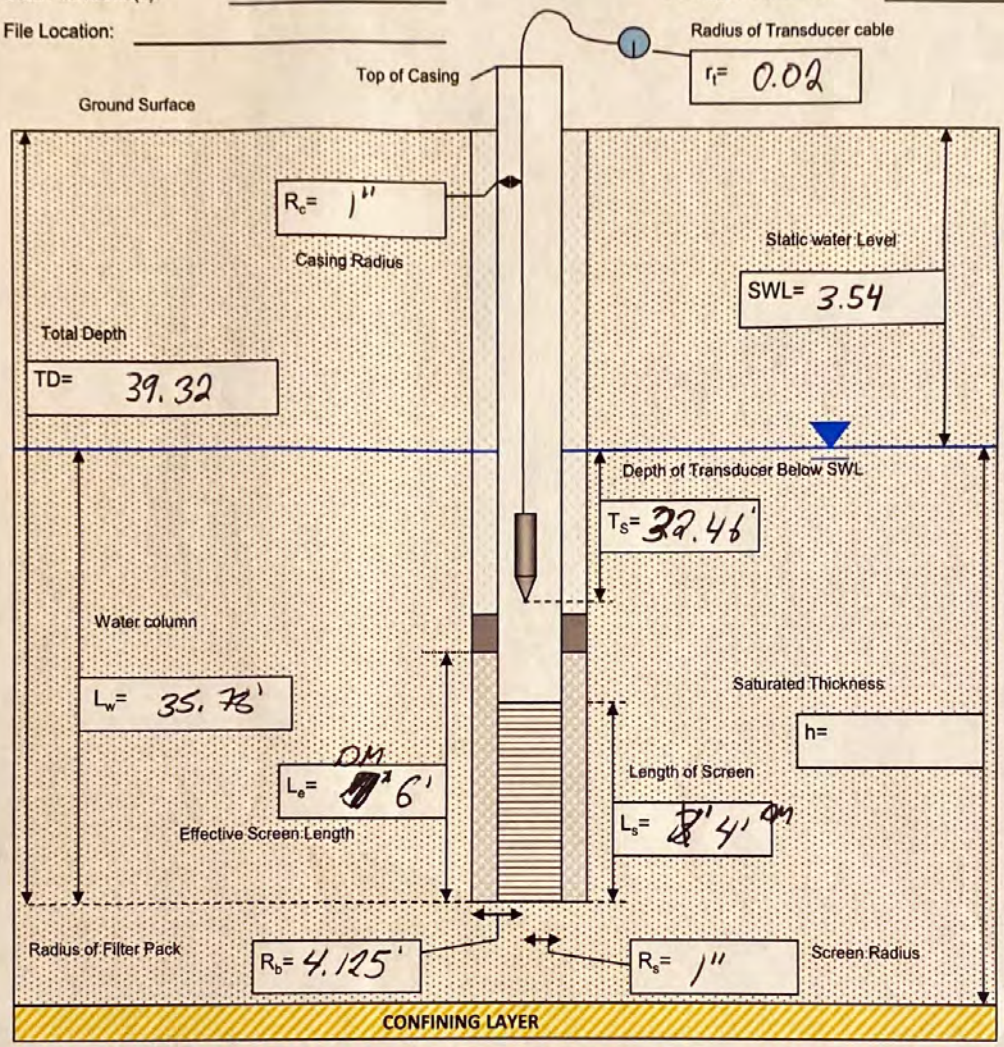
Test Well ID: MW-19D | Observation Well ID (if different): | Date: 8-4-22

Completed By: D. Meander | Weather: 80° Cloudy

Test Type & No: Rising _____ Falling _____ | Pressure Transducer SN: 581079

Data File Name(s): _____ | Barolgger Serial No (if used): _____

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer 36' below TIC

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 = 7.48 gallons
1 gallon = 3.785 Liters
1 psi = 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-19D-F2	Test Duration:	6
Start Test Time:	0925	End Time:	0931
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	0924	3.54	
T_s Baseline Depth & Pressure:		32.46	
Max. Displacement (H_0) :		2.04	

Test Number:	MW-19D-R2	Test Duration:	9 min 30
Start Test Time:	0932	End Time:	0941 30
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	0931	3.54	
T_s Baseline Depth & Pressure:		32.46	
Max. Displacement (H_0) :		2.04	

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
9 25 14	2.37
9 25 26	2.86
9 25 35	3.10
9 25 43	3.28
9 25 55	3.39
9 26 10	3.45
9 26 23	3.48
9 26 35	3.50
9 27 01	3.51
9 27 19	3.52
9 26 18	3.53
09 30 04	3.54

Time	Depth to Water (ft)
9 32 20	4.53
9 32 34	4.15
9 32 36	4.0
9 32 45	3.9
9 32 57	3.75
9 33 15	3.65
9 33 35	3.60
9 33 55	3.58
9 34 41	3.57
9 35 58	3.56
9 39 44	3.55
09 41 15	3.54

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST DATA

Test Number: MW-19D-F1	Test Duration: 11 hr 30
Start Test Time: 0900	End Time: 09 11 30
Rising / Falling (circle)	Slug Volume: 0.328
SWL Time / Depth (ft)	0959 3.54'
T_s Baseline Depth & Pressure:	32.46'
Max. Displacement (H_0) :	2.04

Test Number: MW-19D R1	Test Duration: 10
Start Test Time: 9:12	End Time: 09 22
Rising / Falling (circle)	Slug Volume: 0.328
SWL Time / Depth (ft)	09:12 3.52'
T_s Baseline Depth & Pressure:	32.46'
Max. Displacement (H_0) :	2.04'

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
9 00 28	2.88
9 00 38	3.12
9 00 49	3.27
9 00 58	3.37
9 01 10	3.43
9 01 31	3.49
9 01 51	3.50
9 04 27	3.51
9 06 31	3.52
9 09 07	3.52
9 11 13	3.52

Time	Depth to Water (ft)
9 12 17	4.55
9 12 29	4.25
9 12 40	4.00
9 12 43	3.9
9 13 05	3.73
9 13 18	3.65
9 13 41	3.6
9 14 39	3.55
9 15 07	3.54
9 18 06	3.53
09 21 40	3.53

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits Project No: 30053689 Page: 1 of 1

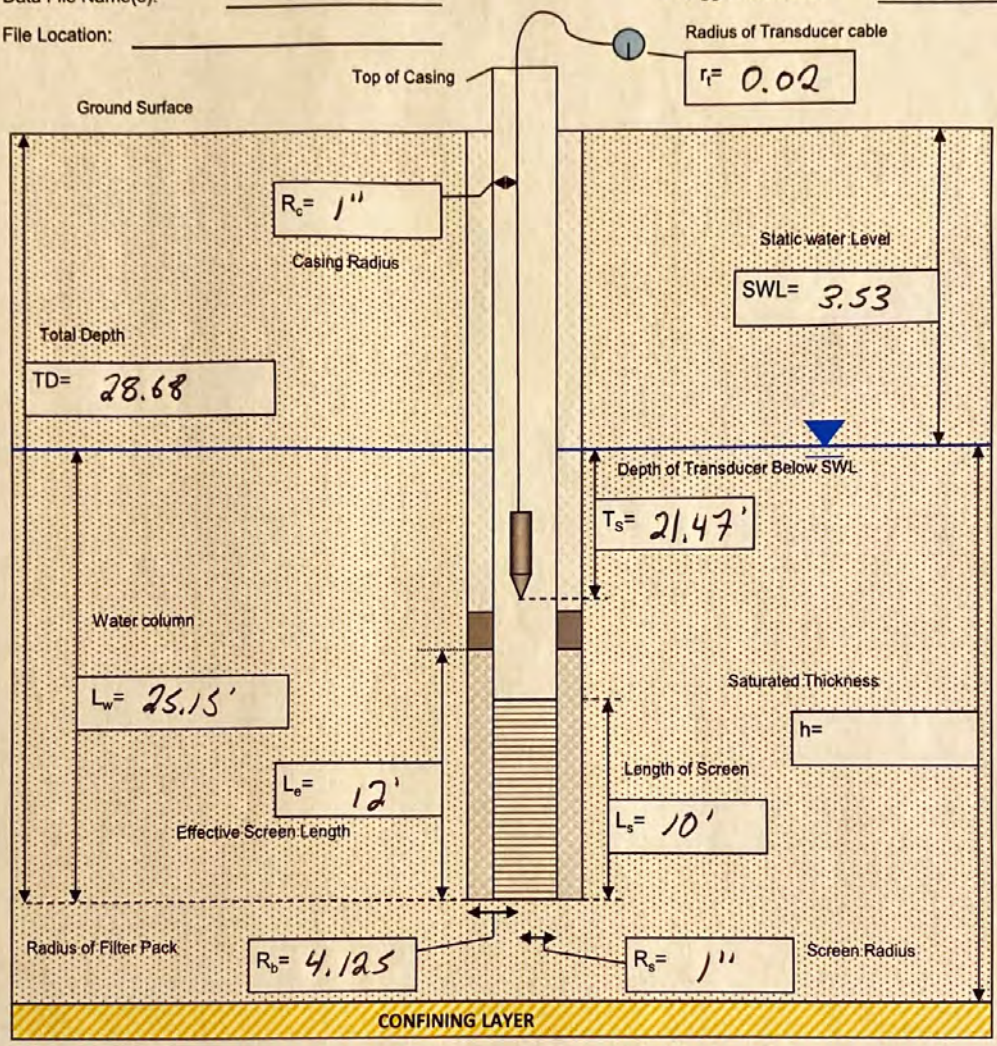
Test Well ID: MW-19S Observation Well ID (if different): _____ Date: 8-4-22

Completed By: D. MacNeo Weather: 85° Cloudy

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 581079

Data File Name(s): _____ Barolgger Serial No (if used): _____

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer @ 25' below TIC

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 ≈ 7.48 gallons
1 gallon ≈ 3.785 Liters
1 psi ≈ 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-19S-F1	Test Duration:	4
Start Test Time:	0955	End Time:	09 59
Rising / Falling (circle)		Slug Volume:	0.32L
SWL Time / Depth (ft)	0954	/	3.54
T_s Baseline Depth & Pressure:			21.47
Max. Displacement (H_0) :			2.04

Test Number:	MW-19S-R1	Test Duration:	9 min
Start Test Time:	1000	End Time:	1009
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)			
T_s Baseline Depth & Pressure:			21.47
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
9 55 10	2.10
9 55 23	2.50
9 55 33	2.75
9 55 45	2.93
9 55 54	3.09
9 56 04	3.20
9 56 20	3.30
9 56 34	3.37
9 56 42	3.40
9 56 59	3.45
9 57 19	3.48
9 57 40	3.50
9 57 53	3.52
9 58 21	3.53
9 58 50	3.54

Time	Depth to Water (ft)
10 00 16	4.90
10 00 22	4.70
10 00 36	4.40
10 00 41	4.30
10 00 47	4.20
10 00 56	4.10
10 01 04	4.0
10 01 14	3.9
10 01 22	3.85
10 01 30	3.80
10 01 41	3.75
10 01 67	3.70
10 02 16	3.65
10 02 58	3.66
10 03 16	3.59
10 03 41	3.58
10 05 31	3.57
10 08 58	~~3.57~~ 3.56'

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

ARCADIS

SLUG TEST DATA

Test Number:	MW-19S-F2	Test Duration:	8 min
Start Test Time:	1011	End Time:	1019
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1010	/	3.56
T_s Baseline Depth & Pressure:			21.47
Max. Displacement (H_0) :			2.04

Test Number:	MW-19S-D2	Test Duration:	9 min
Start Test Time:	1020	End Time:	1029
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1019	/	3.55
T_s Baseline Depth & Pressure:			21.47
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
10 11 13	2.09
10 11 22	2.43
10 11 30	2.60
10 11 38	2.75
10 11 44	2.85
10 11 52	2.95
10 11 59	3.05
10 12 07	3.15
10 12 20	3.25
10 12 38	3.35
10 12 49	3.40
10 13 12	3.45
10 13 32	3.49
10 13 47	3.51
10 14 09	3.52
10 14 23	3.53
10 15 13	3.54
10 16 14	3.55
10 18 47	3.56

Time	Depth to Water (ft)
10 20 17	4.70
10 20 22	4.55
10 20 29	4.4
10 20 34	4.3
10 20 39	4.2
10 20 46	4.1
10 20 53	4.0
10 21 07	3.9
10 21 13	3.85
10 21 22	3.80
10 21 32	3.75
10 21 47	3.70
10 22 64	3.65
10 22 57	3.60
10 23 13	3.59
10 23 55	3.58
10 25 17	3.57
10 28 44	3.57

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits | Project No: 30053689 | Page: 1 of 1

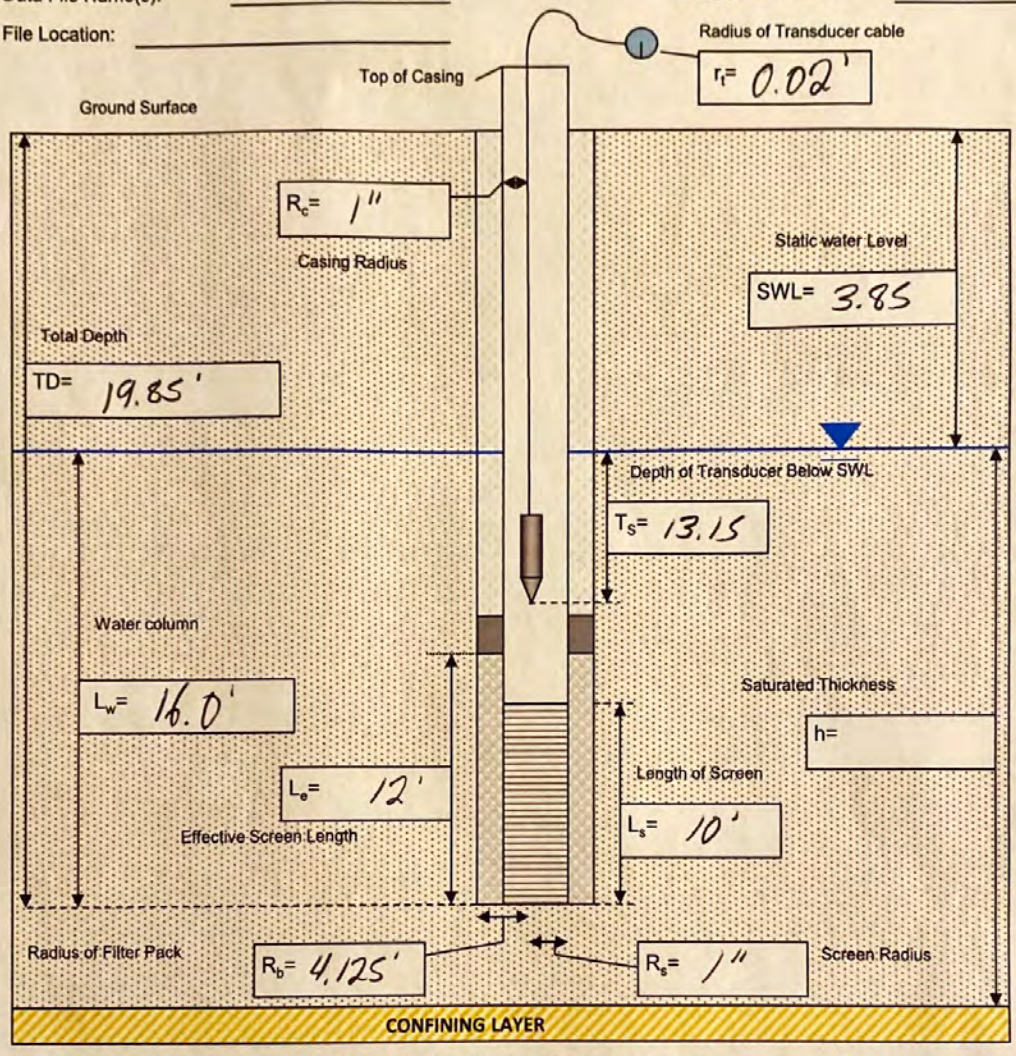
Test Well ID: MW-19S | Observation Well ID (if different): | Date: 8-4-22

Completed By: D. Mearsdo | Weather: 85° Cloudy

Test Type & No: Rising _____ Falling _____ | Pressure Transducer SN: 581079

Data File Name(s): _____ | Barolgger Serial No (if used): _____

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer @ 17' below TIC

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 ≈ 7.48 gallons
1 gallon ≈ 3.785 Liters
1 psi ≈ 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-185-F2	Test Duration:	66
Start Test Time:	1346	End Time:	1454
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1345	/	4.02
T_o Baseline Depth & Pressure:			17' or 13.15
Max. Displacement (H_0) :			2.04

Test Number:	MW-185-F2	Test Duration:	
Start Test Time:	1455	End Time:	1721
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1454	/	3.91
T_o Baseline Depth & Pressure:			17' or 13.15'
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
13 46 25	2.62
13 46 34	2.68
13 46 54	2.75
13 47 24	2.80
13 48 11	2.86
13 48 45	2.90
13 50 35	3.00
13 52 40	3.10
13 55 04	3.20
13 57 54	3.30
14 01 34	3.40
14 06 02	3.5
14 11 33	3.6
14 19 06	3.7
14 30 05	3.8
14 48 25	3.9
14 53 26	3.91

Time	Depth to Water (ft)
14 55 24	5.53
14 55 34	5.50
14 55 59	5.45
14 56 35	5.40
14 57 14	5.35
14 57 58	5.30
14 58 44	5.25
14 59 33	5.20
15 00 31	5.15
15 01 28	5.10
15 03 30	5.00
15 34 48	4.27
16 07 01	4.08
16 38 00	4.03
17 20 17	4.02

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST DATA

Test Number:	MW-185-F1	Test Duration:	59
Start Test Time:	1111	End Time:	1210
Rising / Falling (circle)	Falling	Slug Volume:	0.328
SWL Time / Depth (ft)	1109		3.88
T_o Baseline Depth & Pressure:			OR 17' 13.15
Max. Displacement (H_0) :			2.04

Test Number:	MW-185-R1	Test Duration:	1hr 33
Start Test Time:	1211	End Time:	1344
Rising / Falling (circle)	Rising	Slug Volume:	0.328
SWL Time / Depth (ft)	1210		3.86
T_o Baseline Depth & Pressure:			OR 17' 13.15
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
11 11 20	2.48
11 11 35	2.54
11 11 47	2.57
11 12 01	2.60
11 12 17	2.65
11 12 36	2.70
11 13 15	2.75
11 13 47	2.80
11 14 15	2.83
11 14 47	2.87
11 15 23	2.92
11 16 57	3.00
11 19 05	3.1
11 21 35	3.2
11 24 24	3.3
11 28 12	3.4
11 32 35	3.5
11 38 25	3.6
11 46 10	3.7
11 56 09	3.8
12 05 51	3.85
12 09 20	3.86

Time	Depth to Water (ft)
12 11 26	5.35 5.40
12 11 59	5.35
12 12 33	5.30
12 13 09	5.25
12 13 57	5.20
12 15 45	5.10
12 17 38	5.0
12 20 04	4.90
12 22 58	4.80
12 25 35	4.70
12 29 04	4.60
12 33 19	4.50
12 38 24	4.40
12 45 22	4.30
12 54 15	4.20
13 10 45	4.1
13 43 01	4.02
13 ~~3.9~~	~~4.01~~ DTW

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π ≈ 3.1416

* Rain started @ 1238

ARCADIS

SLUG TEST LOG

Site Name: Northon Circuits Project No: 30053669 Page: 1 of 1

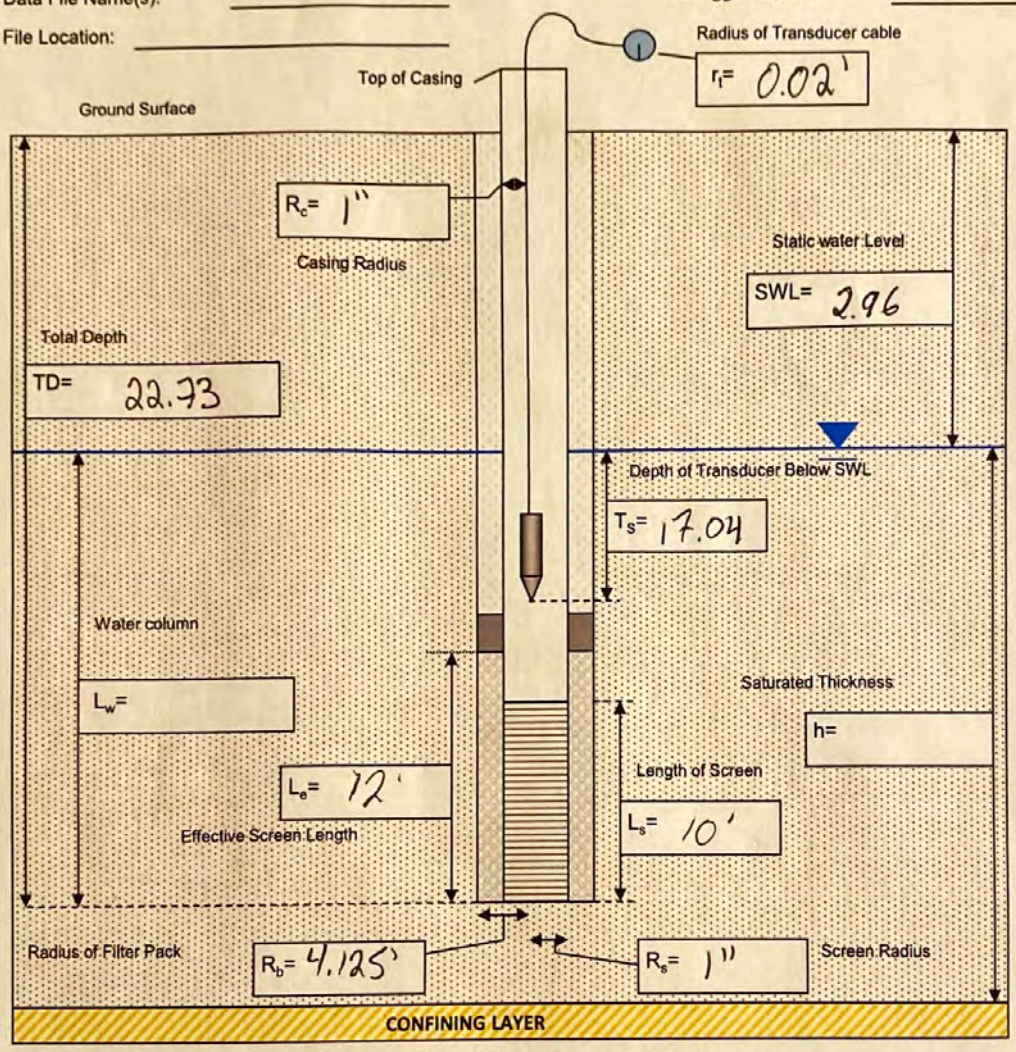
Test Well ID: YW-17S Observation Well ID (if different): _____ Date: 6-4-22

Completed By: D. Meandro Weather: 85° Cloudy

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 592805

Data File Name(s): _____ Barolgger Serial No (if used): _____

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer set @ 20'

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 = 7.48 gallons
1 gallon = 3.785 Liters
1 psi = 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-175-F2	Test Duration:	25
Start Test Time:	1644	End Time:	1709
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1643	/	2.99
T_s Baseline Depth & Pressure:			17.04
Max. Displacement (H_0) :			2.04

Test Number:	MW-175-R2	Test Duration:	30
Start Test Time:	1710	End Time:	1740
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1709	/	2.94
T_s Baseline Depth & Pressure:			17.04
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
16 44.25	1.64
16 44 47	1.76
16 45 03	1.87
16 45 22	1.94
16 45 35	2.00
16 46 07	2.10
16 46 42	2.20
16 47 26	2.30
16 48 21	2.40
16 49 24	2.50
16 ~~50~~ 50 50	2.60
16 52 47	2.70
16 56 14	2.~~80~~ 82
17 02 01	2.90
17 03 21	2.91
17 04 13	2.92
17 06 39	2.93
17 08 57	~~2.99~~ 2.94

Time	Depth to Water (ft)
17 10 14	4.50
17 10 20	4.55
17 10 29	4.35
17 10 39	4.25
17 10 51	4.15
17 10 57	4.10
17 11 42	4.00
17 11 31	3.90
17 11 49	3.80
17 12 11	3.70
17 12 39	3.60
17 13 10	3.50
17 13 51	3.40
17 14 46	3.30
17 16 68	3.20
17 29.35	3.01
17 35 05	2.99
17 39 14	2.99

Rain

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST DATA

Test Number: MW-17S-F1	Test Duration: 34
Start Test Time: 1541 ~~1527~~	End Time: 1615
Rising / Falling (circle)	Slug Volume: 0.328
SWL Time / Depth (ft)	1526 2.96
T_s Baseline Depth & Pressure:	20 17.04
Max. Displacement (H_0) :	2.04

Test Number: MW-17S-R1	Test Duration: 27
Start Test Time: 1616	End Time: 1643
Rising / Falling (circle)	Slug Volume: 0.328
SWL Time / Depth (ft)	16:14:30 / 2.94
T_s Baseline Depth & Pressure:	20 17.04
Max. Displacement (H_0) :	2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
15 41 44	1.73
15 41 66	1.81
15 42 14	1.88
15 42 38	1.94
15 42 47	2.00
15 43 20	2.10
15 43 40	2.15
15 44 30	2.23
15 44 53	2.30
15 45 50	2.40
15 47 10	2.50
15 48 47	2.60
15 51 10	2.70
15 54 42	2.80
15 57 31	2.85
16 02 26	2.90
16 11 47	2.94
16 14 01	2.94

Time	Depth to Water (ft)
16 16 15	4.50
16 16 24	4.40
16 16 33	4.30
16 16 40	4.25
16 16 51	4.15
16 16 59	4.10
16 17 12	4.00
16 17 28	3.90
16 17 48	3.80
16 18 09	3.70
16 19 36	3.60
16 19 06	3.50
16 19 47	3.40
16 20 39	3.30
16 21 53	3.20
16 ~~23~~ 24 25	3.10
16 26 57	3.05
16 32 38	~~3.00~~ 3.01
16 42 47	2.99

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

Test not started slug did not go down waiting for water to return
Ignore all data before 1541

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits Project No: 30053669 Page: 1 of 1

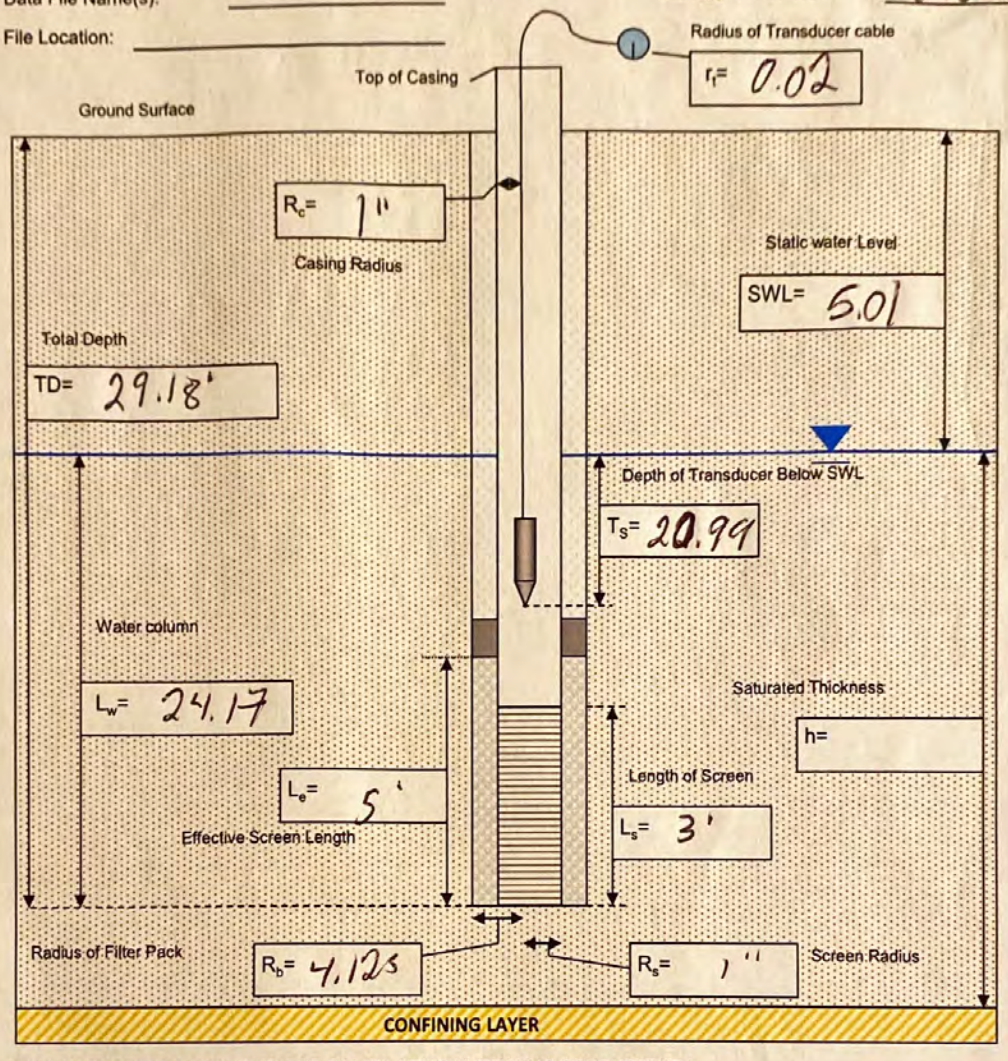
Test Well ID: MW-16D Observation Well ID (if different): _____ Date: 8-5-22

Completed By: D. Meardo Weather: 80° Cloudy

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 581079

Data File Name(s): _____ Barologger Serial No (if used): 643544

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer @ 26'

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 ≈ 7.48 gallons
1 gallon ≈ 3.785 Liters
1 psi ≈ 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-16D F2	Test Duration:	25
Start Test Time:	1255	End Time:	1320
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	~~DH 20.90~~	1254 / 4.91	
T_s Baseline Depth & Pressure:	20.99		
Max. Displacement (H_0) :	2.04		

Test Number:	MW-16D R2	Test Duration:	27
Start Test Time:	1321	End Time:	1348
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1326 / 4.87	~~DH~~	~~DH~~ DH
T_s Baseline Depth & Pressure:	20.99		
Max. Displacement (H_0) :	2.04		

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
12 55 19	3.8
12 55 29	4.1
12 55 34	4.2
12 55 43	4.35
12 55 50	4.45
12 55 56	4.5
12 56 08	4.6
12 56 34	4.7
12 57 47	4.8
12 59 54	4.82
13 17 28	4.87
13 19 04	4.87

Time	Depth to Water (ft)
13 21 11	6.15
13 21 26	5.9
13 21 31	5.7
13 21 37	5.6
13 21 43	5.5
13 21 50	5.4
13 22 00	5.3
13 22 15	5.2
13 22 35	5.1
13 23 28	5.0
13 24 40	4.96
13 30 36	4.93
13 33 40	4.92
13 47 33	4.90

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

ARCADIS

SLUG TEST DATA

Test Number:	MW-16D-F1	Test Duration:	19
Start Test Time:	1214	End Time:	1233
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	12:11		4.91
T_s Baseline Depth & Pressure:			20.99
Max. Displacement (H_0) :			2.04

Test Number:	MW-16D2	Test Duration:	18
Start Test Time:	1235	End Time:	1253
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1234		4.88
T_s Baseline Depth & Pressure:			20.99
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
12 14 20	3.80
12 14 29	4.10
12 14 39	4.30
12 14 46	4.40
12 14 55	4.50
12 15 08	4.60
12 15 31	4.70
12 16 30	4.80
12 19 35	4.85
12 21 45	4.86
12 27 30	4.86
12 31 36	4.87
12 32 40	4.88

Time	Depth to Water (ft) (DM)
12 35 14	6 6.2
12 35 23	6 6.0
12 35 27	5 6.85
12 35 35	5 6.7
12 35 41	5 6.6
12 35 50	5 6.5
12 35 57	5 6.4
12 36 08	5 6.3
12 36 24	5 6.2
12 36 51	5.1
12 37 58	5.0
12 ~~39~~ 40 30	4.95
12 45 56	4.93
12 47 43	4.92
12 52 34	4.91

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

ARCADIS

SLUG TEST LOG

Site Name: Northern Circuits Project No: 30053589 Page: 1 of 1

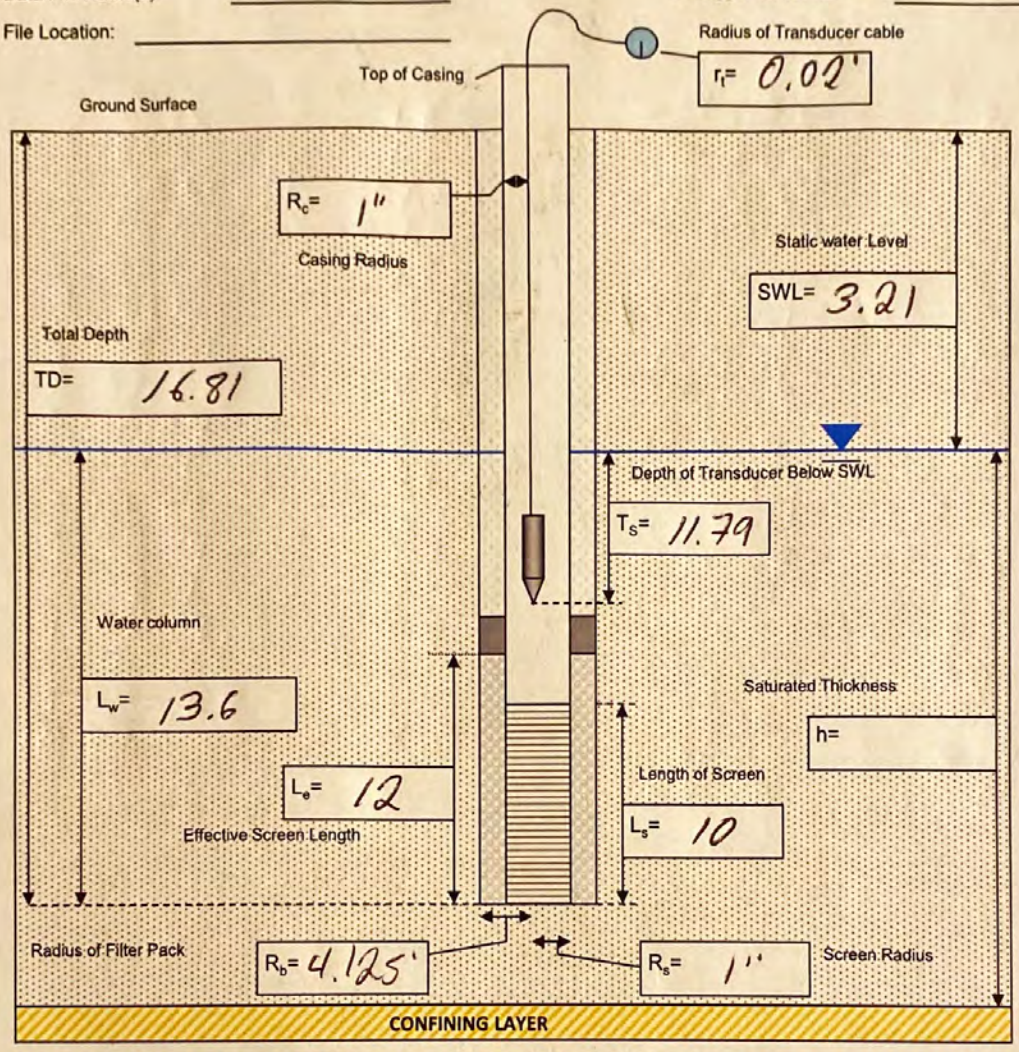
Test Well ID: MW-16S Observation Well ID (if different): _____ Date: 6-5-22

Completed By: D. Meardo Weather: 80° Cloudy

Test Type & No: Rising _____ Falling _____ Pressure Transducer SN: 592805

Data File Name(s): _____ Barologger Serial No (if used): _____

File Location: _____



WELL PARAMETERS REQUIRED FOR CALCULATING HYDRAULIC CONDUCTIVITY:

L_e = Effective screen length, including the sand pack
L_s = True screen length
L_w = Length of water column in Well (TD-SWL)
R_s = Screen radius
R_b = Radius of filter Pack or borehole
R_c = Casing radius
r_t = Radius of the transducer cable (can be ignored if less than 1/8 inch)

T_s = Depth the transducer is submerged below the SWL
SWL = Static water level
TD = Total depth of well/screen from reference point
h = Saturated thickness of aquifer
H_o = Initial head change at instant the slug test is started.
Aquifer Type = Confined or unconfined

Transducer @ 15'

COMMON CONVERSIONS:

1 foot = 12 inches
1 foot^3 ≈ 7.48 gallons
1 gallon ≈ 3.785 Liters
1 psi ≈ 2.3 feet of water

ARCADIS

SLUG TEST DATA

Test Number:	MW-165-F1	Test Duration:	39
Start Test Time:	0926	End Time:	1003
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	0925		3.12
T_s Baseline Depth & Pressure:			11.79
Max. Displacement (H_0) :			2.04

Test Number:	MW-165-R1	Test Duration:	39
Start Test Time:	1007	End Time:	1046
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)			1026 / 3.05
T_s Baseline Depth & Pressure:			11.79
Max. Displacement (H_0) :			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)	Time	Depth to Water (ft)
9 26 10	1.67	10 07 15	4.3
9 26 27	1.77	10 07 29	4.43
9 26 41	1.85	10 07 42	4.40
9 26 50	1.90	10 07 56	4.35
9 27 02	1.95	10 08 10	4.30
9 27 42	2.10	10 08 41	4.20
9 28 21	2.20	10 09 19	4.10
9 28 43	2.25	10 10 03	4.0
9 29 07	2.30	10 10 51	3.9
9 30 01	2.4	10 11 48	3.8
9 31 06	2.5	10 12 56	3.7
9 32 29	2.6	10 14 27	3.6
9 34 11	2.7	10 19 29	3.28
9 37 09	2.8	10 23 30	3.28
9 41 22	2.92	10 28 04	3.20
10 00 43 ~~9 44 10~~ PM	3.05	10 35 15	3.12
10 ~~00~~ 03 47	3.05	10 41 10	3.09
10 05 00	3.05	10 45 55	3.06

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
π = 3.1416

ARCADIS

SLUG TEST DATA

Test Number:	MW-16S-F2	Test Duration:	47
Start Test Time:	1048	End Time:	1133
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1047		3.06
T_s Baseline Depth & Pressure:			11.79
Max. Displacement (H_0):			2.04

Test Number	MW-16S R2	Test Duration:	33 min
Start Test Time:	1137	End Time:	1210
Rising / Falling (circle)		Slug Volume:	0.328
SWL Time / Depth (ft)	1136		2.95
T_s Baseline Depth & Pressure:			11.79
Max. Displacement (H_0):			2.04

Manual Depth to Water Measurements:

Time	Depth to Water (ft)
10 48 13	1.60
10 48 23	1.65
10 48 33	1.70
10 48 45	1.75
10 48 58	1.80
10 49 29	1.90
10 50 04	2.00
10 50 44	2.10
10 51 32	2.20
10 52 31	2.30
10 53 40	2.40
10 54 59	2.50
10 57 16	2.60
11 03 19	2.78
11 07 33	2.85
11 33 09	2.95
11 35 00	2.95

Time	Depth to Water (ft)
11 37 22	4.4
11 37 33	4.35
11 37 44	4.30
11 38 11	4.20
11 38 44	4.10
11 39 20	4.00
11 40 02	3.90
11 40 53	3.80
11 41 44	3.70
11 42 50	3.60
11 44 19	3.50
11 46 33	3.30
11 52 50	3.16
11 54 41	3.09
11 59 46	3.05
12 05 16	3.00
12 08 36	2.98
12 09 47	2.98

NOTES:

THEORETICAL HEAD CHANGE

Slug Volume (gallon)	Slug Volume (ml)	Well Casing Diameter (inches)	Theoretical Initial Displacement (feet)
0.25	946	2	1.56
0.5	1893	2	3.13
1	3785	2	6.25
0.5	1893	4	0.77
1	3785	4	1.54
2	7570	4	3.08
1	3785	6	0.68
2	7570	6	1.36
3	11355	6	2.04

$$Displacement = \frac{Slug\ Volume}{Casing\ Area}$$

$$Slug\ Volume_{(cylinder)} = h\pi r^2$$

$$Casing\ Area = \pi r^2$$

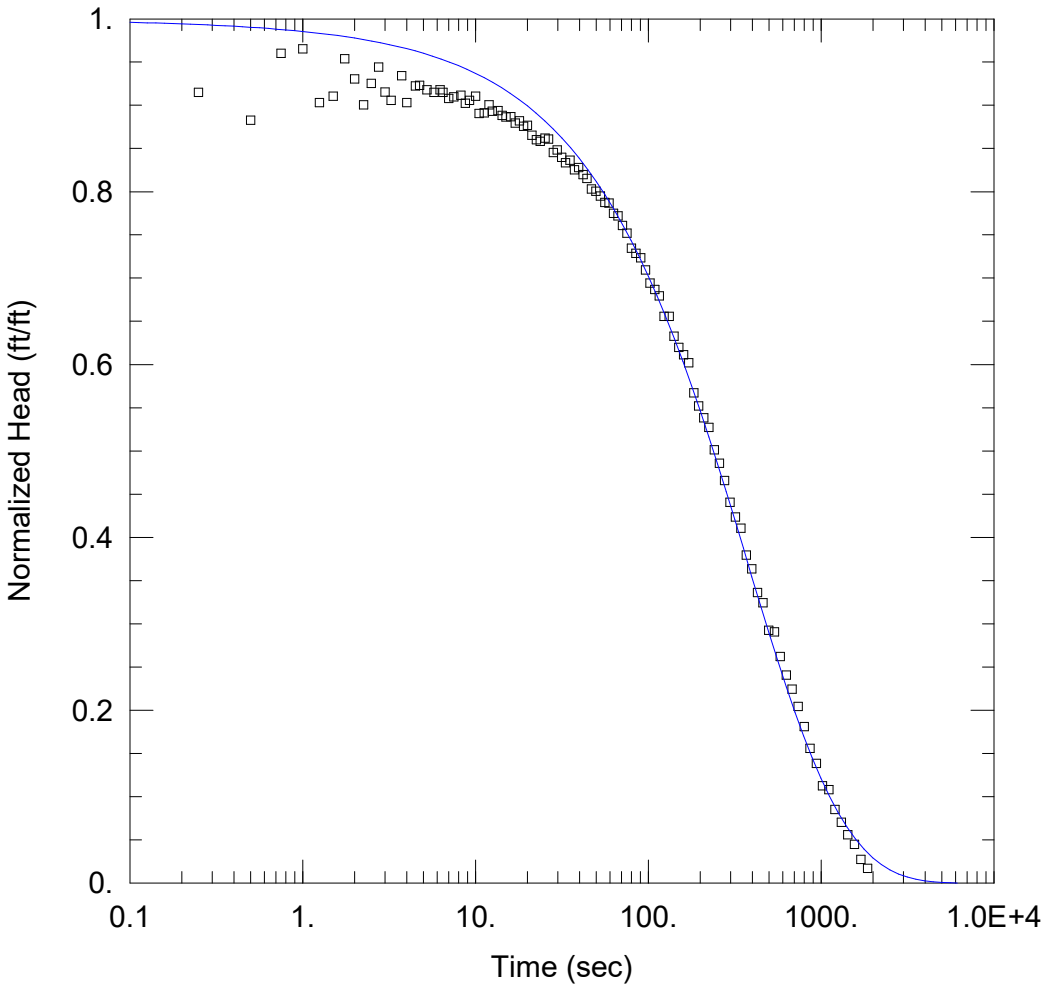
Note: formulas based on consistent units
h = height (length)
r = radius (½ diameter)
$\pi \approx 3.1416$

Appendix J

Slug Test Analysis Sheets

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 9.0E-5 cm/sec Ss = 4.9E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

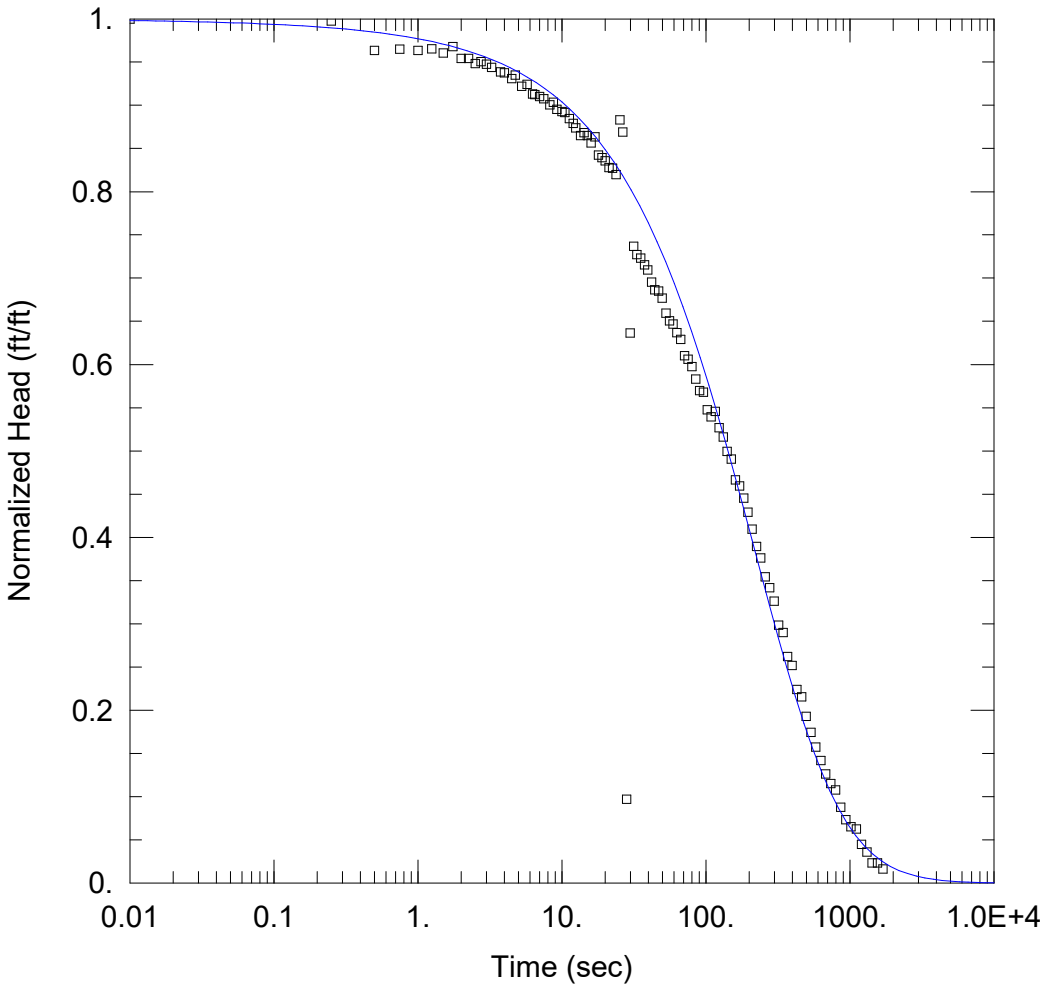
Saturated Thickness: 13.6 ft

WELL DATA (MW-16S)

Initial Displacement: 1.61 ft
Static Water Column Height: 13.6 ft
Total Well Penetration Depth: 13.6 ft
Screen Length: 10. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.00013 cm/sec Ss = 8.0E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

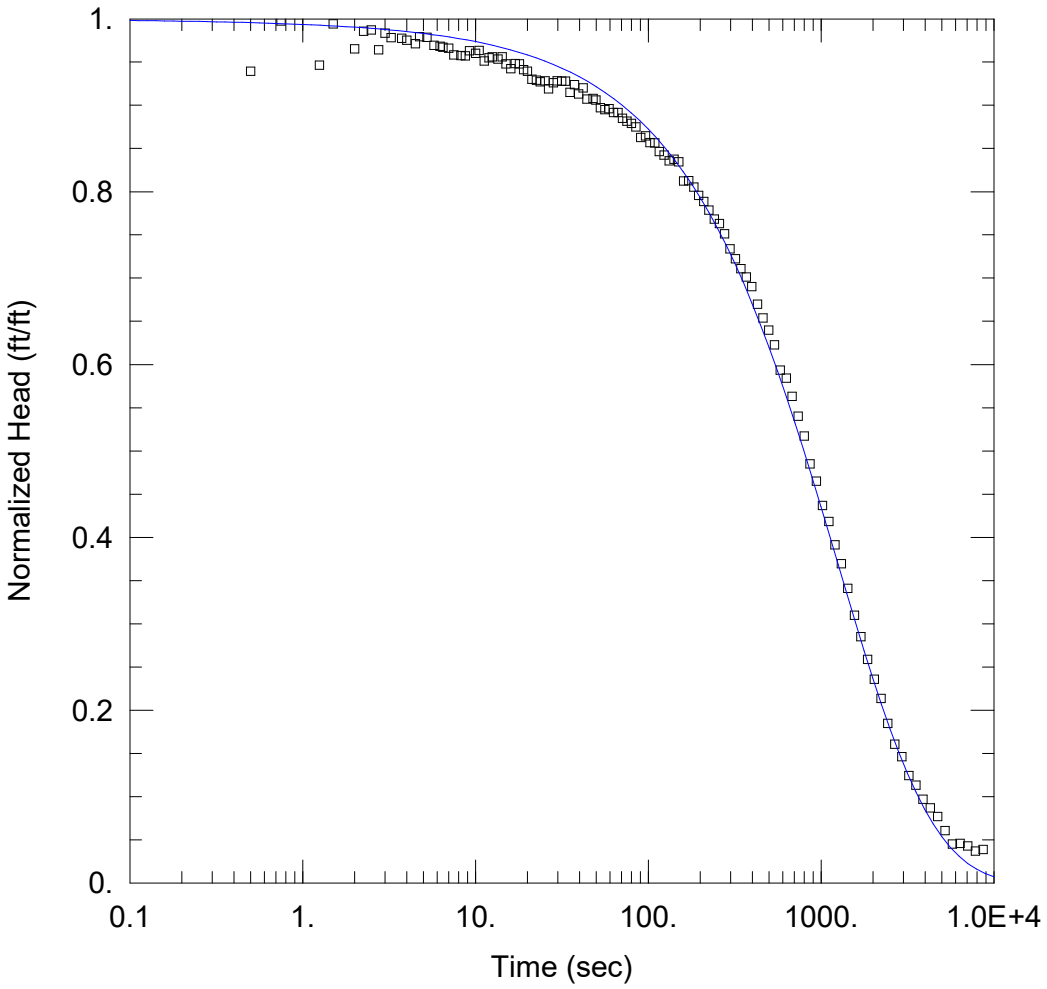
Saturated Thickness: 19.98 ft

WELL DATA (MW-17S)

Initial Displacement: 1.68 ft
Static Water Column Height: 19.98 ft
Total Well Penetration Depth: 19.97 ft
Screen Length: 10. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 2.7E-5 cm/sec Ss = 3.2E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

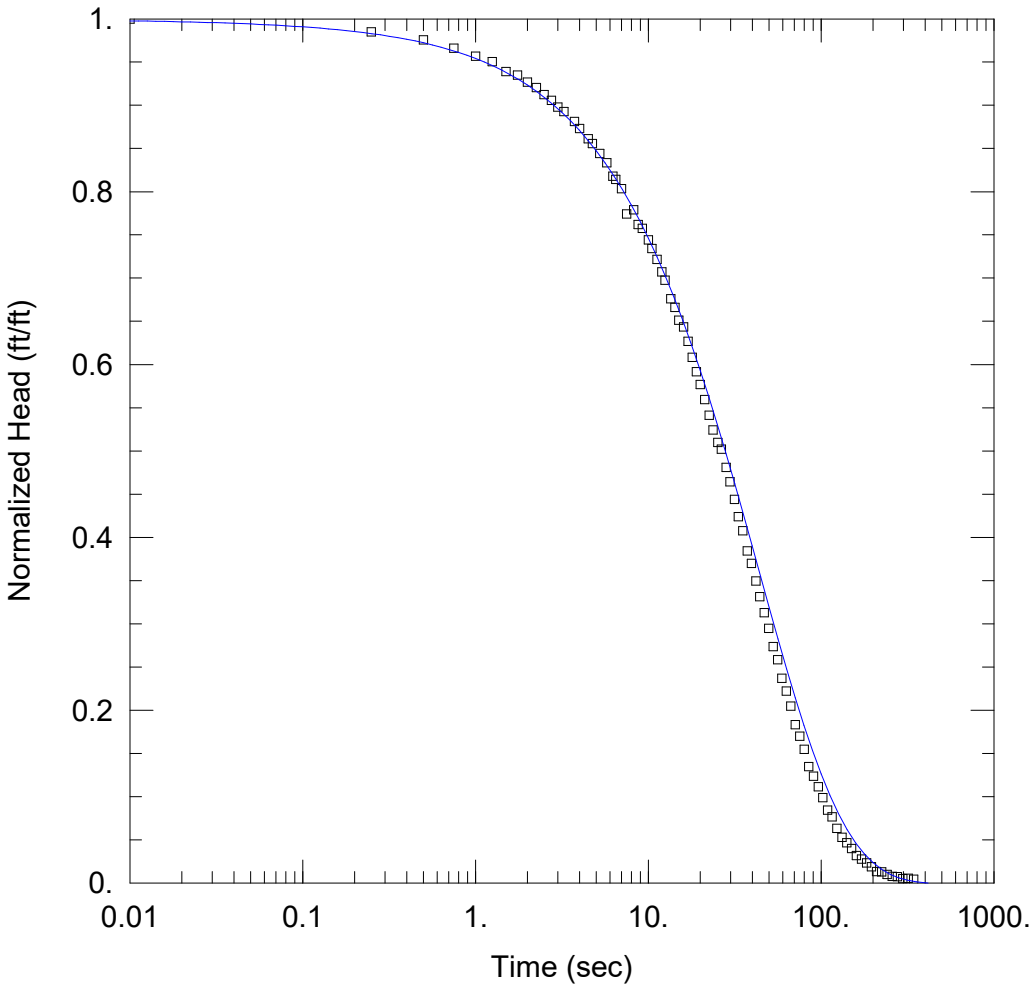
Saturated Thickness: 16.66 ft

WELL DATA (MW-18S)

Initial Displacement: 1.705 ft
Static Water Column Height: 16.66 ft
Total Well Penetration Depth: 16.66 ft
Screen Length: 10. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.00078 cm/sec Ss = 1.1E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

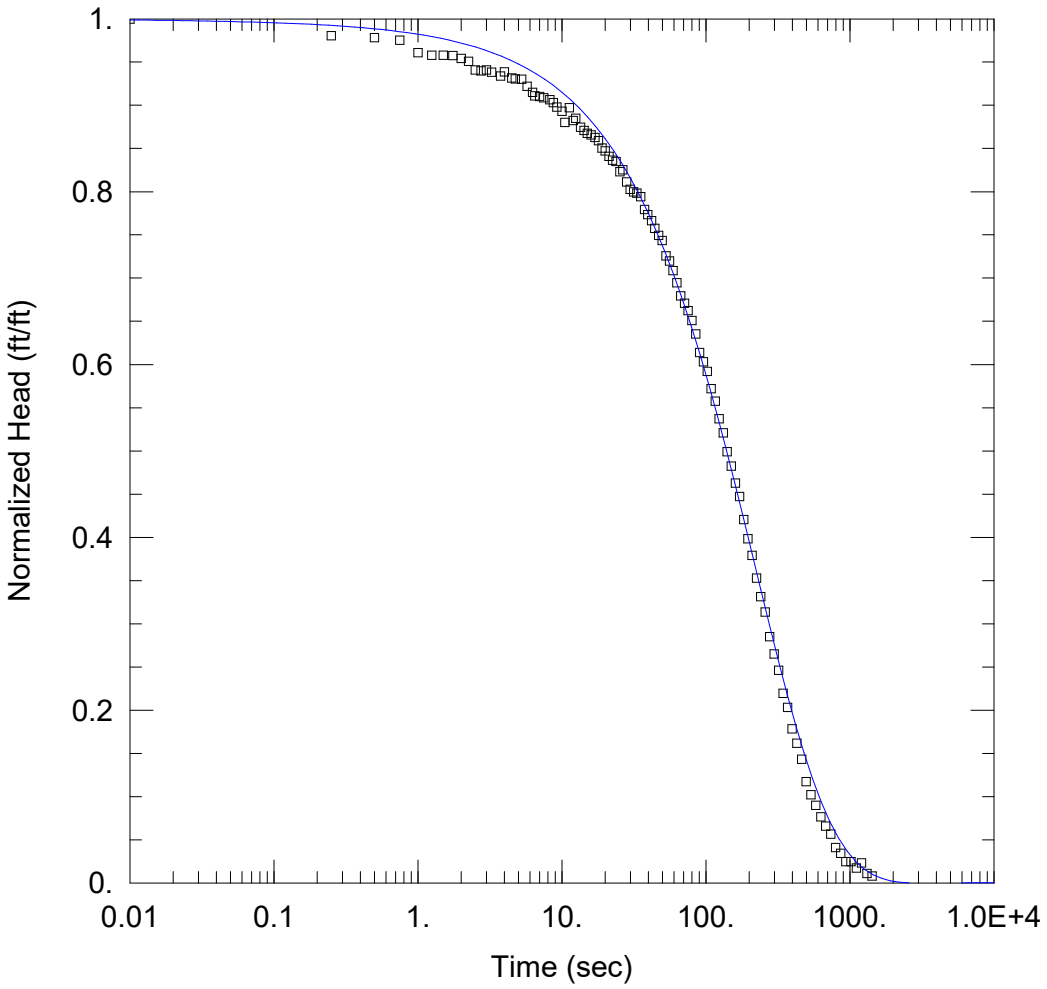
Saturated Thickness: 19.48 ft

WELL DATA (MW-19S)

Initial Displacement: 1.803 ft
Static Water Column Height: 19.48 ft
Total Well Penetration Depth: 19.48 ft
Screen Length: 10. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.00014 cm/sec Ss = 2.5E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

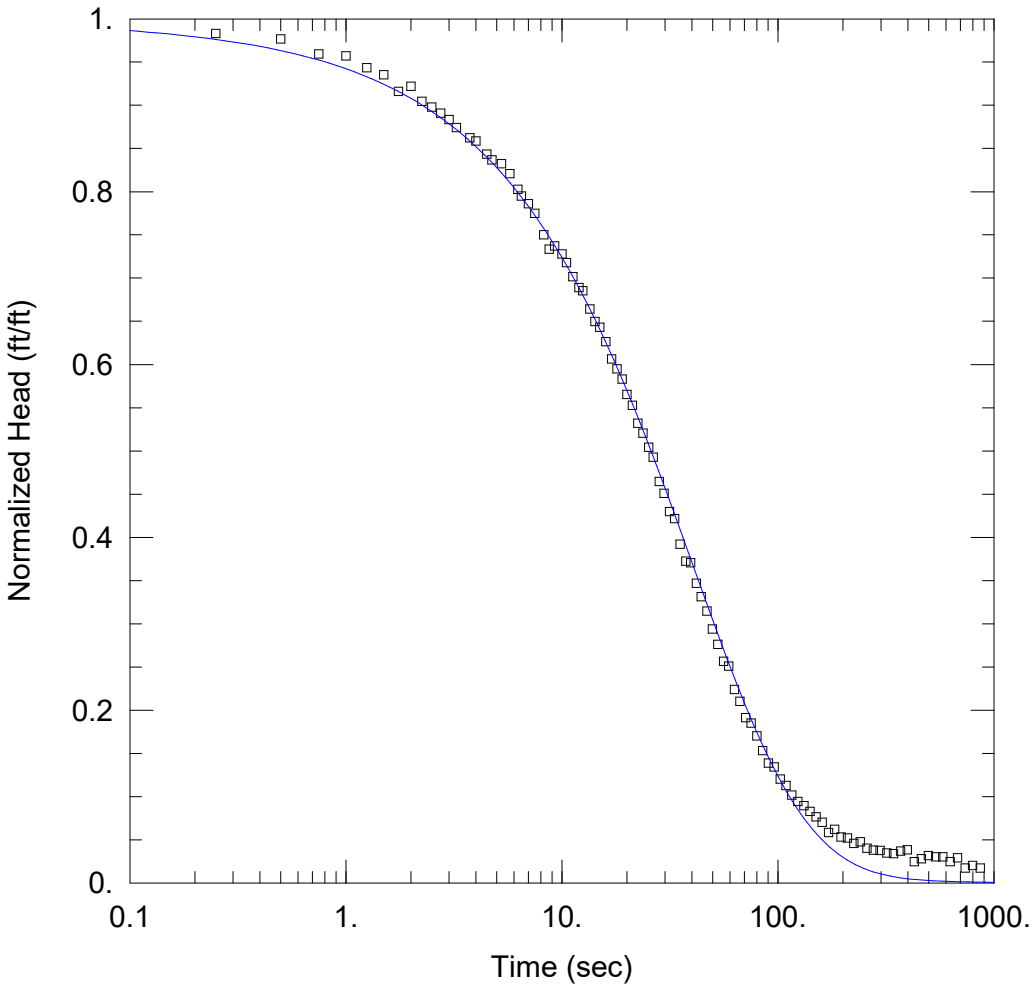
Saturated Thickness: 14.53 ft

WELL DATA (MW-20S)

Initial Displacement: 1.86 ft
Static Water Column Height: 14.53 ft
Total Well Penetration Depth: 14.53 ft
Screen Length: 10. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0019 cm/sec Ss = 0.00017 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

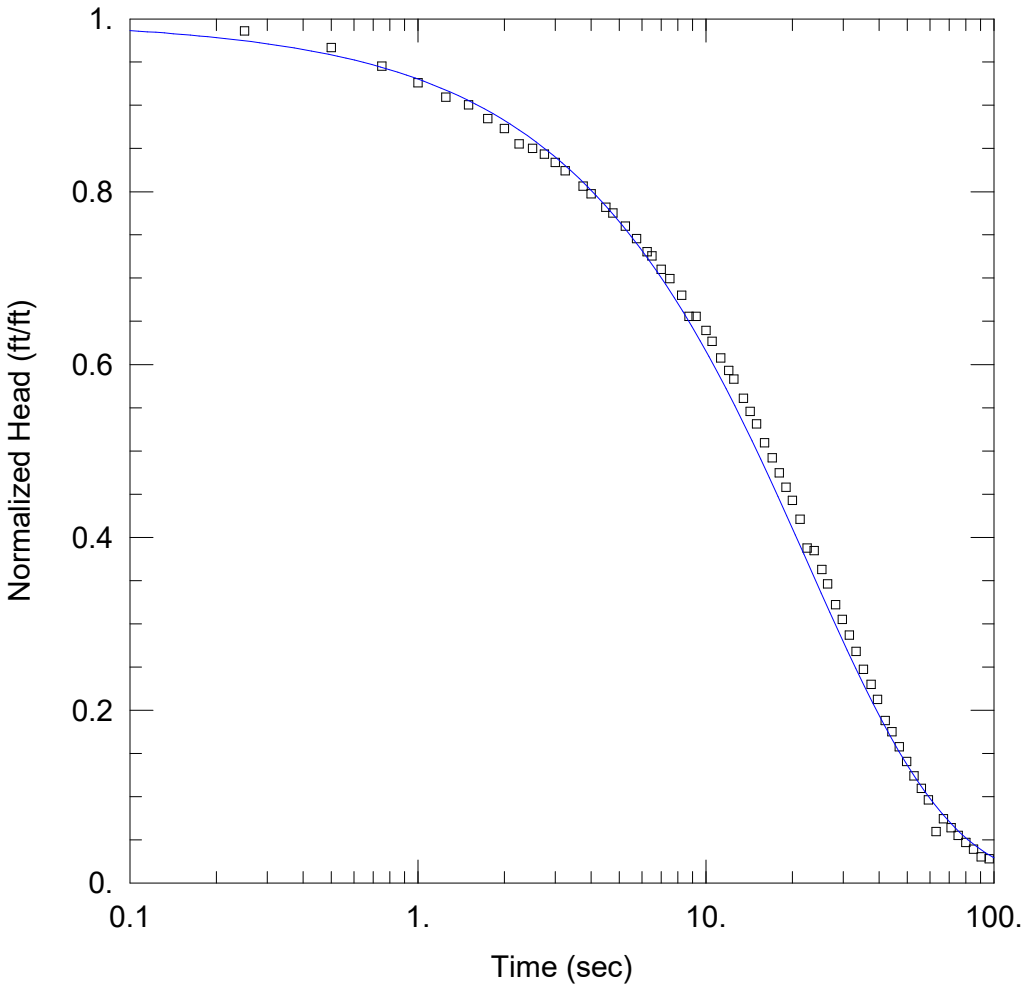
Saturated Thickness: 24.17 ft

WELL DATA (MW-16D)

Initial Displacement: 1.898 ft
Static Water Column Height: 24.17 ft
Total Well Penetration Depth: 24.17 ft
Screen Length: 3. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.003 cm/sec Ss = 3.5E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

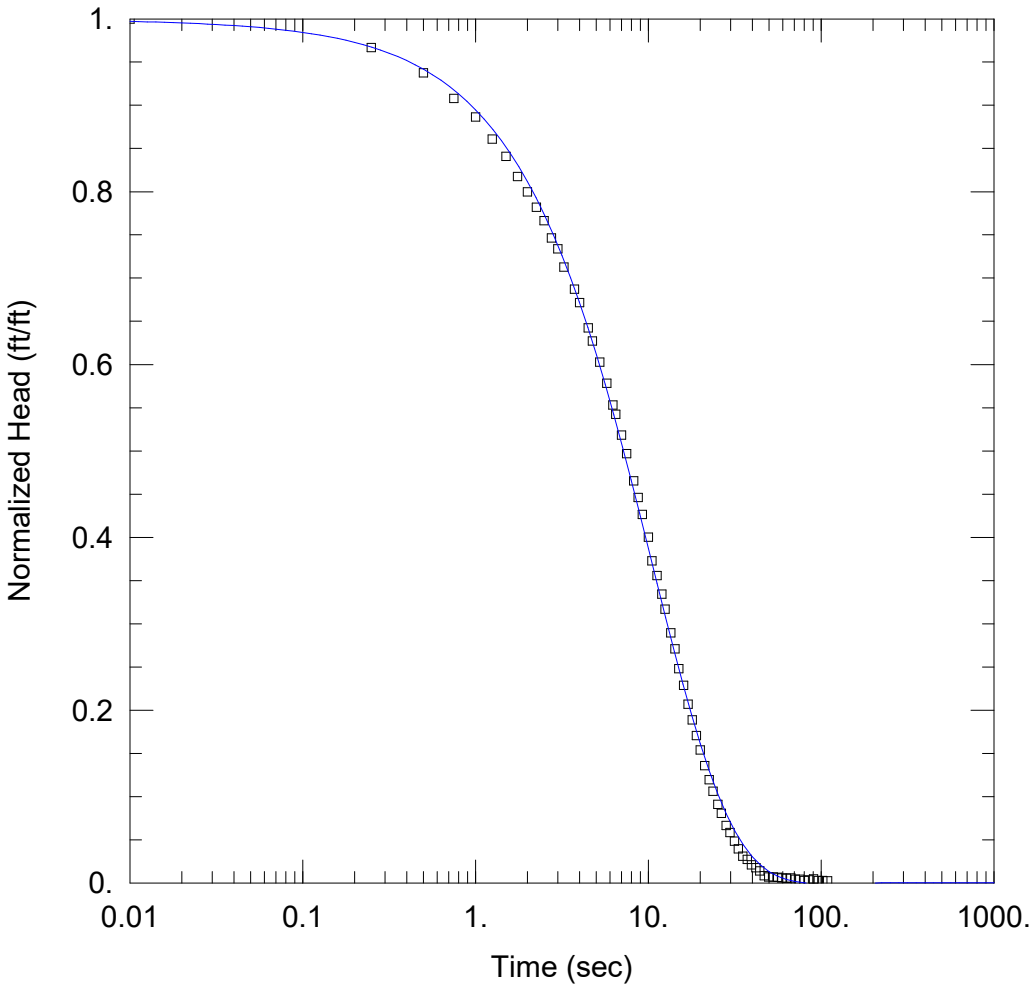
Saturated Thickness: 35.78 ft

WELL DATA (MW-19D)

Initial Displacement: 1.922 ft
Static Water Column Height: 35.78 ft
Total Well Penetration Depth: 35.78 ft
Screen Length: 4. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Slug Testing Analysis

Prepared By:	Prepared For:
Arcadis	Northern Circuits
Project:	**Location:**
30053689	East Syracuse, NY



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0094 cm/sec Ss = 1.1E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 30.91 ft

WELL DATA (MW-20D)

Initial Displacement: 1.717 ft
Static Water Column Height: 30.91 ft
Total Well Penetration Depth: 30.91 ft
Screen Length: 3. ft
Casing Radius: 0.083 ft
Well Radius: 0.344 ft

Appendix K

Analytical Laboratory Reporting Forms

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 18, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: 8 Adlo Dr, Dewitt, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22F1992

Enclosed are results of analyses for samples as received by the laboratory on June 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 7/18/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F1992

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 8 Adlo Dr, Dewitt, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IDW-Soil	22F1992-01	Soil		SM 2540G	
				SW-846 1311	
				SW-846 1311 Modified	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
IDW-Water	22F1992-02	Waste Water		SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
Trip Blank	22F1992-03	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8082A

Qualifications:

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B312797-BS1, B312797-BSD1, B312797-MS1

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane
B312096-BS1, B312096-BSD1

Carbon Disulfide
B312096-BS1, B312096-BSD1

Chloroethane
B312096-BS1, B312096-BSD1

Trichlorofluoromethane (Freon 11)
B312096-BS1, B312096-BSD1

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
22F1992-02[IDW-Water], B312096-BS1, B312096-BSD1

1,1-Dichloroethylene
22F1992-02[IDW-Water], B312096-BS1, B312096-BSD1

Methylene Chloride
B312096-BS1, B312096-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,4-Dioxane
22F1992-02[IDW-Water], 22F1992-03[Trip Blank], B312096-BLK1, B312096-BS1, B312096-BSD1, S073525-CCV1

2-Hexanone (MBK)
22F1992-02[IDW-Water], 22F1992-03[Trip Blank], B312096-BLK1, B312096-BS1, B312096-BSD1, S073525-CCV1

4-Methyl-2-pentanone (MIBK)
22F1992-02[IDW-Water], 22F1992-03[Trip Blank], B312096-BLK1, B312096-BS1, B312096-BSD1, S073525-CCV1

Cyclohexane
22F1992-02[IDW-Water], 22F1992-03[Trip Blank], B312096-BLK1, B312096-BS1, B312096-BSD1, S073525-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
22F1992-02[IDW-Water], B312096-BS1, B312096-BSD1, S073525-CCV1

1,1-Dichloroethylene
22F1992-02[IDW-Water], B312096-BS1, B312096-BSD1, S073525-CCV1

Methylene Chloride
B312096-BS1, B312096-BSD1, S073525-CCV1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromoform

B312096-BS1, B312096-BSD1, S073525-CCV1

Bromomethane

B312096-BS1, B312096-BSD1, S073525-CCV1

Chloroethane

B312096-BS1, B312096-BSD1, S073525-CCV1

Trichlorofluoromethane (Freon 11)

B312096-BS1, B312096-BSD1, S073525-CCV1

SW-846 8270E

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

22F1992-02[IDW-Water], B312328-BLK1, B312328-BS1, B312328-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

4-Chloroaniline

22F1992-02[IDW-Water], B312328-BLK1, B312328-BS1, B312328-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

22F1992-02[IDW-Water], B312328-BLK1, B312328-BS1, B312328-BSD1, S073671-CCV1, S073759-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Soil | Sampled: 6/29/2022 13:15

Sample ID: 22F1992-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	7/7/22	7/7/22 18:20	RWS

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Soil | Sampled: 6/29/2022 13:15

Sample ID: 22F1992-01

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	0.0020	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
2-Butanone (MEK)	ND	0.20	0.016	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Carbon Tetrachloride	ND	0.010	0.0016	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Chlorobenzene	ND	0.010	0.0011	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Chloroform	0.0037	0.010	0.0017	mg/L	1	J	SW-846 8260D	7/12/22	7/12/22 19:27	EEH
1,4-Dichlorobenzene	ND	0.010	0.0013	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
1,2-Dichloroethane	ND	0.010	0.0031	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
1,1-Dichloroethylene	ND	0.010	0.0014	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Tetrachloroethylene	ND	0.010	0.0019	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Trichloroethylene	ND	0.010	0.0019	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH
Vinyl Chloride	ND	0.020	0.0021	mg/L	1		SW-846 8260D	7/12/22	7/12/22 19:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.4	70-130		7/12/22 19:27
Toluene-d8	96.3	70-130		7/12/22 19:27
4-Bromofluorobenzene	103	70-130		7/12/22 19:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Soil | Sampled: 6/29/2022 13:15

Sample ID: 22F1992-01

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.043	0.0026	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Hexachlorobenzene	ND	0.043	0.0022	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Hexachlorobutadiene	ND	0.043	0.0033	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Hexachloroethane	ND	0.043	0.0031	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
2-Methylphenol	ND	0.043	0.0020	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
3/4-Methylphenol	ND	0.043	0.0019	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Nitrobenzene	ND	0.043	0.0027	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Pentachlorophenol	ND	0.043	0.015	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
Pyridine	ND	0.021	0.011	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
2,4,5-Trichlorophenol	ND	0.043	0.0022	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR
2,4,6-Trichlorophenol	ND	0.043	0.0019	mg/L	1		SW-846 8270E	7/13/22	7/15/22 12:20	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.9	15-110		7/15/22 12:20
Phenol-d6	49.5	15-110		7/15/22 12:20
Nitrobenzene-d5	78.4	30-130		7/15/22 12:20
2-Fluorobiphenyl	63.0	30-130		7/15/22 12:20
2,4,6-Tribromophenol	64.5	15-110		7/15/22 12:20
p-Terphenyl-d14	68.7	30-130		7/15/22 12:20

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Soil | Sampled: 6/29/2022 13:15

Sample ID: 22F1992-01

Sample Matrix: Soil

TCLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	0.055	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1221 [1]	ND	0.21	0.083	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1232 [1]	ND	0.21	0.076	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1242 [1]	ND	0.21	0.080	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1248 [1]	ND	0.21	0.093	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1254 [1]	ND	0.21	0.082	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1260 [1]	ND	0.21	0.065	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1262 [1]	ND	0.21	0.067	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM
Aroclor-1268 [1]	ND	0.21	0.082	µg/L	1		SW-846 8082A	7/12/22	7/13/22 18:23	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.8	30-150		7/13/22 18:23
Decachlorobiphenyl [2]	76.7	30-150		7/13/22 18:23
Tetrachloro-m-xylene [1]	68.7	30-150		7/13/22 18:23
Tetrachloro-m-xylene [2]	58.0	30-150		7/13/22 18:23

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Chloroform	0.70	2.0	0.17	µg/L	1	J	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,1-Dichloroethane	42	1.0	0.14	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,1-Dichloroethylene	1.2	1.0	0.14	µg/L	1	L-06, V-06	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
cis-1,2-Dichloroethylene	1.3	1.0	0.15	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,4-Dioxane	ND	50	21	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Tetrachloroethylene	5.1	1.0	0.19	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	0.30	1.0	0.17	µg/L	1	J	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Trichloroethylene	0.70	1.0	0.19	µg/L	1	J	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.3	1.0	0.23	µg/L	1	L-06, V-06	SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/1/22	7/5/22 15:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		7/5/22 15:16
Toluene-d8	99.1	70-130		7/5/22 15:16
4-Bromofluorobenzene	99.4	70-130		7/5/22 15:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	0.53	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzaldehyde	ND	9.7	0.43	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Biphenyl	ND	19	0.40	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Caprolactam	ND	9.7	0.27	µg/L	1	L-04	SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Acenaphthene	ND	4.8	0.50	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Acenaphthylene	ND	4.8	0.47	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Acetophenone	ND	9.7	0.51	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Anthracene	ND	4.8	0.44	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzo(a)anthracene	ND	4.8	0.39	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzo(a)pyrene	ND	4.8	0.55	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzo(b)fluoranthene	ND	4.8	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzo(g,h,i)perylene	ND	4.8	0.59	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Benzo(k)fluoranthene	ND	4.8	0.47	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Bis(2-chloroethoxy)methane	ND	9.7	0.44	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Bis(2-chloroethyl)ether	ND	9.7	0.55	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Bis(2-chloroisopropyl)ether	ND	9.7	0.66	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.7	0.81	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Bromophenylphenylether	ND	9.7	0.45	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Butylbenzylphthalate	ND	9.7	0.65	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Carbazole	ND	9.7	0.41	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Chloroaniline	ND	9.7	0.56	µg/L	1	R-05	SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Chloro-3-methylphenol	ND	9.7	0.54	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Chloronaphthalene	ND	9.7	0.47	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Chlorophenol	ND	9.7	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Chlorophenylphenylether	ND	9.7	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Chrysene	ND	4.8	0.38	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Dibenz(a,h)anthracene	ND	4.8	0.67	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Dibenzofuran	ND	4.8	0.47	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Di-n-butylphthalate	ND	9.7	0.44	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
3,3-Dichlorobenzidine	ND	9.7	0.69	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4-Dichlorophenol	ND	9.7	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Diethylphthalate	ND	9.7	0.40	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4-Dimethylphenol	ND	9.7	0.68	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Dimethylphthalate	ND	9.7	0.36	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4,6-Dinitro-2-methylphenol	ND	9.7	6.8	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4-Dinitrophenol	ND	9.7	7.8	µg/L	1	V-04	SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4-Dinitrotoluene	ND	9.7	0.59	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,6-Dinitrotoluene	ND	9.7	0.50	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Di-n-octylphthalate	ND	9.7	3.8	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Fluoranthene	ND	4.8	0.42	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Fluorene	ND	4.8	0.50	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Hexachlorobenzene	ND	9.7	0.49	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Hexachlorobutadiene	ND	9.7	0.75	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Hexachlorocyclopentadiene	ND	9.7	3.6	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.7	0.71	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Indeno(1,2,3-cd)pyrene	ND	4.8	0.72	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Isophorone	ND	9.7	0.53	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Methylnaphthalene	ND	4.8	0.67	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Methylphenol	ND	9.7	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
3/4-Methylphenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Naphthalene	ND	4.8	0.59	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Nitroaniline	ND	9.7	0.67	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
3-Nitroaniline	ND	9.7	0.57	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Nitroaniline	ND	9.7	0.58	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Nitrobenzene	ND	9.7	0.60	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2-Nitrophenol	ND	9.7	0.50	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
4-Nitrophenol	ND	9.7	2.0	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	0.37	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
N-Nitrosodi-n-propylamine	ND	9.7	0.59	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Pentachlorophenol	ND	9.7	3.4	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Phenanthrene	ND	4.8	0.46	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Phenol	ND	9.7	0.22	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
Pyrene	ND	4.8	0.59	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
1,2,4,5-Tetrachlorobenzene	ND	9.7	0.63	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4,5-Trichlorophenol	ND	9.7	0.50	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR
2,4,6-Trichlorophenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	7/6/22	7/11/22 20:14	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	29.1	15-110		7/11/22 20:14
Phenol-d6	24.2	15-110		7/11/22 20:14
Nitrobenzene-d5	59.0	30-130		7/11/22 20:14
2-Fluorobiphenyl	51.2	30-130		7/11/22 20:14
2,4,6-Tribromophenol	63.6	15-110		7/11/22 20:14
p-Terphenyl-d14	76.9	30-130		7/11/22 20:14

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	8.8	0.20	0.032	µg/L	1		SW-846 8270E	7/6/22	7/11/22 16:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.0	15-110		7/11/22 16:31

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: IDW-Water | Sampled: 6/29/2022 13:20

Sample ID: 22F1992-02

Sample Matrix: Waste Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.051	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1221 [1]	ND	0.19	0.076	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1232 [1]	ND	0.19	0.070	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1242 [1]	ND	0.19	0.073	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1248 [1]	ND	0.19	0.085	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1254 [1]	ND	0.19	0.075	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1260 [1]	ND	0.19	0.060	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1262 [1]	ND	0.19	0.061	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG
Aroclor-1268 [1]	ND	0.19	0.074	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		7/11/22 16:08
Decachlorobiphenyl [2]	88.0	30-150		7/11/22 16:08
Tetrachloro-m-xylene [1]	65.5	30-150		7/11/22 16:08
Tetrachloro-m-xylene [2]	64.6	30-150		7/11/22 16:08

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: Trip Blank | Sampled: 6/29/2022 00:00

Sample ID: 22F1992-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,4-Dioxane	ND	50	21	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1	V-05	SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH

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Project Location: 8 Adlo Dr, Dewitt, NY | Sample Description: | Work Order: 22F1992

Date Received: 6/30/2022

Field Sample #: Trip Blank | Sampled: 6/29/2022 00:00

Sample ID: 22F1992-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/1/22	7/5/22 13:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		7/5/22 13:52
Toluene-d8	97.8	70-130		7/5/22 13:52
4-Bromofluorobenzene	101	70-130		7/5/22 13:52

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Sample Extraction Data

Prep Method: % Solids **Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
22F1992-01 [IDW-Soil]	B312456	07/07/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-02 [IDW-Water]	B312324	1040	10.0	07/06/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8082A** **Leachates were extracted on 7/11/2022 per SW-846 1311 in Batch B312677**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-01 [IDW-Soil]	B312797	475	5.00	07/12/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D** **Leachates were extracted on 7/11/2022 per SW-846 1311 in Batch B312685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-01 [IDW-Soil]	B312782	5.00	5.00	07/12/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-02 [IDW-Water]	B312096	5	5.00	07/01/22
22F1992-03 [Trip Blank]	B312096	5	5.00	07/01/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-02 [IDW-Water]	B312327	1020	1.00	07/06/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-02 [IDW-Water]	B312328	1040	1.00	07/06/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E** **Leachates were extracted on 7/11/2022 per SW-846 1311 in Batch B312677**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1992-01 [IDW-Soil]	B312841	235	1.00	07/13/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312096 - SW-846 5030B										
Blank (B312096-BLK1)				Prepared: 07/01/22 Analyzed: 07/05/22						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							V-05
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							V-05
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							V-05
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312096 - SW-846 5030B												
Blank (B312096-BLK1)				Prepared: 07/01/22 Analyzed: 07/05/22								
o-Xylene	ND	1.0	µg/L									
Xylenes (total)	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*26.7*		µg/L	25.0		107		70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.4		70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		101		70-130				
LCS (B312096-BS1)				Prepared: 07/01/22 Analyzed: 07/05/22								
Acetone	118	50	µg/L	100		118		70-160				†
Benzene	9.34	1.0	µg/L	10.0		93.4		70-130				
Bromochloromethane	9.49	1.0	µg/L	10.0		94.9		70-130				
Bromodichloromethane	9.91	0.50	µg/L	10.0		99.1		70-130				
Bromoform	12.8	1.0	µg/L	10.0		128		70-130			V-20	
Bromomethane	19.6	2.0	µg/L	10.0		**196**	*	40-160			L-02, V-20	†
2-Butanone (MEK)	77.0	20	µg/L	100		77.0		40-160				†
Carbon Disulfide	147	5.0	µg/L	100		**147**	*	70-130			L-02	
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118		70-130				
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104		70-130				
Chloroethane	15.4	2.0	µg/L	10.0		**154**	*	70-130			L-02, V-20	
Chloroform	10.4	2.0	µg/L	10.0		104		70-130				
Chloromethane	10.4	2.0	µg/L	10.0		104		40-160				†
Cyclohexane	8.21	5.0	µg/L	10.0		82.1		70-130			V-05	
1,2-Dibromo-3-chloropropane (DBCP)	9.20	5.0	µg/L	10.0		92.0		70-130				
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130				
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.0		122		40-160				†
1,1-Dichloroethane	8.99	1.0	µg/L	10.0		89.9		70-130				
1,2-Dichloroethane	9.14	1.0	µg/L	10.0		91.4		70-130				
1,1-Dichloroethylene	14.0	1.0	µg/L	10.0		**140**	*	70-130			L-06, V-06	
cis-1,2-Dichloroethylene	8.99	1.0	µg/L	10.0		89.9		70-130				
trans-1,2-Dichloroethylene	9.09	1.0	µg/L	10.0		90.9		70-130				
1,2-Dichloropropane	8.38	1.0	µg/L	10.0		83.8		70-130				
cis-1,3-Dichloropropene	8.63	0.50	µg/L	10.0		86.3		70-130				
trans-1,3-Dichloropropene	8.66	0.50	µg/L	10.0		86.6		70-130				
1,4-Dioxane	81.8	50	µg/L	100		81.8		40-130			V-05	†
Ethylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
2-Hexanone (MBK)	76.9	10	µg/L	100		76.9		70-160			V-05	†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130				
Methyl Acetate	12.0	1.0	µg/L	10.0		120		70-130				
Methyl tert-Butyl Ether (MTBE)	9.36	1.0	µg/L	10.0		93.6		70-130				
Methyl Cyclohexane	9.37	1.0	µg/L	10.0		93.7		70-130				
Methylene Chloride	13.5	5.0	µg/L	10.0		**135**	*	70-130			L-06, V-06	
4-Methyl-2-pentanone (MIBK)	77.2	10	µg/L	100		77.2		70-160			V-05	†
Styrene	10.4	1.0	µg/L	10.0		104		70-130				
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130				
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104		70-130				
Toluene	9.95	1.0	µg/L	10.0		99.5		70-130				
1,2,3-Trichlorobenzene	9.50	5.0	µg/L	10.0		95.0		70-130				
1,2,4-Trichlorobenzene	9.42	1.0	µg/L	10.0		94.2		70-130				
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312096 - SW-846 5030B												
LCS (B312096-BS1)				Prepared: 07/01/22 Analyzed: 07/05/22								
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100		70-130				
Trichloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
Trichlorofluoromethane (Freon 11)	16.4	2.0	µg/L	10.0		**164**	*	70-130			L-02, V-20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.4	1.0	µg/L	10.0		**154**	*	70-130			L-06, V-06	
Vinyl Chloride	8.79	2.0	µg/L	10.0		87.9		40-160				†
m+p Xylene	22.2	2.0	µg/L	20.0		111		70-130				
o-Xylene	11.0	1.0	µg/L	10.0		110		70-130				
Xylenes (total)	33.1	1.0	µg/L	30.0		110		0-200				
Surrogate: 1,2-Dichloroethane-d4	*26.0*		µg/L	25.0		104		70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.5		70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		70-130				
LCS Dup (B312096-BSD1)				Prepared: 07/01/22 Analyzed: 07/05/22								
Acetone	114	50	µg/L	100		114		70-160	2.66	25		†
Benzene	9.45	1.0	µg/L	10.0		94.5		70-130	1.17	25		
Bromochloromethane	9.63	1.0	µg/L	10.0		96.3		70-130	1.46	25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130	1.90	25		
Bromoform	12.3	1.0	µg/L	10.0		123		70-130	3.82	25	V-20	
Bromomethane	18.5	2.0	µg/L	10.0		**185**	*	40-160	5.41	25	L-02, V-20	†
2-Butanone (MEK)	72.7	20	µg/L	100		72.7		40-160	5.84	25		†
Carbon Disulfide	145	5.0	µg/L	100		**145**	*	70-130	0.829	25	L-02	
Carbon Tetrachloride	11.6	5.0	µg/L	10.0		116		70-130	1.11	25		
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	0.182	25		
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130	1.72	25		
Chloroethane	15.2	2.0	µg/L	10.0		**152**	*	70-130	1.44	25	L-02, V-20	
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	1.64	25		
Chloromethane	9.73	2.0	µg/L	10.0		97.3		40-160	7.14	25		†
Cyclohexane	8.30	5.0	µg/L	10.0		83.0		70-130	1.09	25	V-05	
1,2-Dibromo-3-chloropropane (DBCP)	8.34	5.0	µg/L	10.0		83.4		70-130	9.81	25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130	1.87	25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	0.691	25		
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	0.292	25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	1.09	25		
Dichlorodifluoromethane (Freon 12)	11.9	2.0	µg/L	10.0		119		40-160	2.33	25		†
1,1-Dichloroethane	9.23	1.0	µg/L	10.0		92.3		70-130	2.63	25		
1,2-Dichloroethane	9.42	1.0	µg/L	10.0		94.2		70-130	3.02	25		
1,1-Dichloroethylene	13.9	1.0	µg/L	10.0		**139**	*	70-130	0.645	25	L-06, V-06	
cis-1,2-Dichloroethylene	8.96	1.0	µg/L	10.0		89.6		70-130	0.334	25		
trans-1,2-Dichloroethylene	9.14	1.0	µg/L	10.0		91.4		70-130	0.549	25		
1,2-Dichloropropane	8.43	1.0	µg/L	10.0		84.3		70-130	0.595	25		
cis-1,3-Dichloropropene	8.77	0.50	µg/L	10.0		87.7		70-130	1.61	25		
trans-1,3-Dichloropropene	8.73	0.50	µg/L	10.0		87.3		70-130	0.805	25		
1,4-Dioxane	74.2	50	µg/L	100		74.2		40-130	9.69	50	V-05	† ‡
Ethylbenzene	11.0	1.0	µg/L	10.0		110		70-130	0.640	25		
2-Hexanone (MBK)	76.4	10	µg/L	100		76.4		70-160	0.626	25	V-05	†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130	1.41	25		
Methyl Acetate	11.2	1.0	µg/L	10.0		112		70-130	6.03	25		
Methyl tert-Butyl Ether (MTBE)	9.52	1.0	µg/L	10.0		95.2		70-130	1.69	25		
Methyl Cyclohexane	8.96	1.0	µg/L	10.0		89.6		70-130	4.47	25		
Methylene Chloride	13.6	5.0	µg/L	10.0		**136**	*	70-130	1.18	25	L-06, V-06	
4-Methyl-2-pentanone (MIBK)	76.9	10	µg/L	100		76.9		70-160	0.363	25	V-05	†
Styrene	10.3	1.0	µg/L	10.0		103		70-130	0.675	25		

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312096 - SW-846 5030B												
LCS Dup (B312096-BSD1)				Prepared: 07/01/22 Analyzed: 07/05/22								
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130	0.187	25		
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130	2.00	25		
Toluene	9.98	1.0	µg/L	10.0		99.8		70-130	0.301	25		
1,2,3-Trichlorobenzene	9.84	5.0	µg/L	10.0		98.4		70-130	3.52	25		
1,2,4-Trichlorobenzene	9.23	1.0	µg/L	10.0		92.3		70-130	2.04	25		
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114		70-130	1.67	25		
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100		70-130	0.0997	25		
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130	1.06	25		
Trichlorofluoromethane (Freon 11)	15.8	2.0	µg/L	10.0		**158**	*	70-130	3.78	25	L-02, V-20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.0	1.0	µg/L	10.0		**150**	*	70-130	2.50	25	L-06, V-06	
Vinyl Chloride	9.08	2.0	µg/L	10.0		90.8		40-160	3.25	25		†
m+p Xylene	21.8	2.0	µg/L	20.0		109		70-130	1.54	25		
o-Xylene	10.9	1.0	µg/L	10.0		109		70-130	0.366	25		
Xylenes (total)	32.8	1.0	µg/L	30.0		109		0-200	1.15			
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		104		70-130				
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.0		70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101		70-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312328 - SW-846 3510C										
Blank (B312328-BLK1)				Prepared: 07/06/22 Analyzed: 07/08/22						
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							R-05
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B312328 - SW-846 3510C											
Blank (B312328-BLK1)				Prepared: 07/06/22 Analyzed: 07/08/22							
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*76.2*		µg/L	200		38.1		15-110			
Surrogate: Phenol-d6	*58.6*		µg/L	200		29.3		15-110			
Surrogate: Nitrobenzene-d5	*73.2*		µg/L	100		73.2		30-130			
Surrogate: 2-Fluorobiphenyl	*56.7*		µg/L	100		56.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*139*		µg/L	200		69.3		15-110			
Surrogate: p-Terphenyl-d14	*78.5*		µg/L	100		78.5		30-130			
LCS (B312328-BS1)				Prepared: 07/06/22 Analyzed: 07/08/22							
Atrazine	37.6	20	µg/L	50.0		75.2		40-140			
Benzaldehyde	29.9	10	µg/L	50.0		59.7		40-140			
Biphenyl	31.0	20	µg/L	50.0		62.0		40-140			
Caprolactam	13.5	10	µg/L	50.0		**26.9**	*	40-140			L-04
Acenaphthene	30.5	5.0	µg/L	50.0		61.0		40-140			
Acenaphthylene	30.6	5.0	µg/L	50.0		61.2		40-140			
Acetophenone	31.5	10	µg/L	50.0		63.0		40-140			
Anthracene	35.2	5.0	µg/L	50.0		70.5		40-140			
Benzo(a)anthracene	35.6	5.0	µg/L	50.0		71.1		40-140			
Benzo(a)pyrene	34.4	5.0	µg/L	50.0		68.7		40-140			
Benzo(b)fluoranthene	35.4	5.0	µg/L	50.0		70.9		40-140			
Benzo(g,h,i)perylene	32.6	5.0	µg/L	50.0		65.1		40-140			
Benzo(k)fluoranthene	38.3	5.0	µg/L	50.0		76.7		40-140			
Bis(2-chloroethoxy)methane	34.6	10	µg/L	50.0		69.1		40-140			
Bis(2-chloroethyl)ether	31.6	10	µg/L	50.0		63.2		40-140			
Bis(2-chloroisopropyl)ether	35.9	10	µg/L	50.0		71.8		40-140			
Bis(2-Ethylhexyl)phthalate	39.8	10	µg/L	50.0		79.7		40-140			
4-Bromophenylphenylether	33.7	10	µg/L	50.0		67.3		40-140			
Butylbenzylphthalate	39.2	10	µg/L	50.0		78.4		40-140			
Carbazole	37.0	10	µg/L	50.0		73.9		40-140			
4-Chloroaniline	31.4	10	µg/L	50.0		62.9		40-140			R-05
4-Chloro-3-methylphenol	36.5	10	µg/L	50.0		73.0		30-130			
2-Chloronaphthalene	25.7	10	µg/L	50.0		51.4		40-140			
2-Chlorophenol	30.1	10	µg/L	50.0		60.1		30-130			
4-Chlorophenylphenylether	32.8	10	µg/L	50.0		65.7		40-140			
Chrysene	35.6	5.0	µg/L	50.0		71.2		40-140			
Dibenz(a,h)anthracene	32.5	5.0	µg/L	50.0		65.0		40-140			
Dibenzofuran	32.5	5.0	µg/L	50.0		65.0		40-140			
Di-n-butylphthalate	39.3	10	µg/L	50.0		78.5		40-140			
3,3-Dichlorobenzidine	37.1	10	µg/L	50.0		74.2		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B312328 - SW-846 3510C											
LCS (B312328-BS1)				Prepared: 07/06/22 Analyzed: 07/08/22							
2,4-Dichlorophenol	32.2	10	µg/L	50.0		64.4	30-130				
Diethylphthalate	37.3	10	µg/L	50.0		74.6	40-140				
2,4-Dimethylphenol	35.5	10	µg/L	50.0		71.0	30-130				
Dimethylphthalate	37.5	10	µg/L	50.0		74.9	40-140				
4,6-Dinitro-2-methylphenol	39.0	10	µg/L	50.0		78.1	30-130				
2,4-Dinitrophenol	28.6	10	µg/L	50.0		57.3	30-130			V-04	
2,4-Dinitrotoluene	35.3	10	µg/L	50.0		70.6	40-140				
2,6-Dinitrotoluene	35.1	10	µg/L	50.0		70.1	40-140				
Di-n-octylphthalate	37.9	10	µg/L	50.0		75.7	40-140				
Fluoranthene	35.9	5.0	µg/L	50.0		71.8	40-140				
Fluorene	33.2	5.0	µg/L	50.0		66.4	40-140				
Hexachlorobenzene	33.1	10	µg/L	50.0		66.2	40-140				
Hexachlorobutadiene	22.8	10	µg/L	50.0		45.6	40-140				
Hexachlorocyclopentadiene	24.4	10	µg/L	50.0		48.9	30-140				†
Hexachloroethane	22.0	10	µg/L	50.0		44.0	40-140				
Indeno(1,2,3-cd)pyrene	33.4	5.0	µg/L	50.0		66.7	40-140				
Isophorone	35.4	10	µg/L	50.0		70.9	40-140				
2-Methylnaphthalene	30.5	5.0	µg/L	50.0		61.0	40-140				
2-Methylphenol	32.0	10	µg/L	50.0		64.1	30-130				
3/4-Methylphenol	33.1	10	µg/L	50.0		66.2	30-130				
Naphthalene	27.8	5.0	µg/L	50.0		55.5	40-140				
2-Nitroaniline	37.2	10	µg/L	50.0		74.3	40-140				
3-Nitroaniline	37.3	10	µg/L	50.0		74.6	40-140				
4-Nitroaniline	39.0	10	µg/L	50.0		78.0	40-140				
Nitrobenzene	29.1	10	µg/L	50.0		58.2	40-140				
2-Nitrophenol	30.9	10	µg/L	50.0		61.9	30-130				
4-Nitrophenol	22.2	10	µg/L	50.0		44.5	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	37.4	10	µg/L	50.0		74.7	40-140				
N-Nitrosodi-n-propylamine	36.8	10	µg/L	50.0		73.6	40-140				
Pentachlorophenol	34.4	10	µg/L	50.0		68.7	30-130				
Phenanthrene	35.0	5.0	µg/L	50.0		69.9	40-140				
Phenol	18.6	10	µg/L	50.0		37.3	20-130				†
Pyrene	36.2	5.0	µg/L	50.0		72.3	40-140				
1,2,4,5-Tetrachlorobenzene	27.6	10	µg/L	50.0		55.2	40-140				
2,4,5-Trichlorophenol	34.5	10	µg/L	50.0		69.1	30-130				
2,4,6-Trichlorophenol	34.4	10	µg/L	50.0		68.8	30-130				
Surrogate: 2-Fluorophenol	*94.2*		µg/L	200		47.1	15-110				
Surrogate: Phenol-d6	*75.1*		µg/L	200		37.6	15-110				
Surrogate: Nitrobenzene-d5	*84.2*		µg/L	100		84.2	30-130				
Surrogate: 2-Fluorobiphenyl	*67.9*		µg/L	100		67.9	30-130				
Surrogate: 2,4,6-Tribromophenol	*149*		µg/L	200		74.7	15-110				
Surrogate: p-Terphenyl-d14	*81.0*		µg/L	100		81.0	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B312328 - SW-846 3510C													
LCS Dup (B312328-BSD1)				Prepared: 07/06/22 Analyzed: 07/08/22									
Atrazine	35.0	20	µg/L	50.0		70.0		40-140	7.22		20		
Benzaldehyde	28.5	10	µg/L	50.0		57.0		40-140	4.59		20		
Biphenyl	30.3	20	µg/L	50.0		60.6		40-140	2.28		20		
Caprolactam	13.6	10	µg/L	50.0		**27.3**	*	40-140	1.40		20	L-04	
Acenaphthene	29.8	5.0	µg/L	50.0		59.5		40-140	2.52		20		
Acenaphthylene	29.8	5.0	µg/L	50.0		59.6		40-140	2.52		20		
Acetophenone	30.8	10	µg/L	50.0		61.5		40-140	2.35		20		
Anthracene	35.2	5.0	µg/L	50.0		70.3		40-140	0.256		20		
Benzo(a)anthracene	36.4	5.0	µg/L	50.0		72.7		40-140	2.22		20		
Benzo(a)pyrene	35.0	5.0	µg/L	50.0		69.9		40-140	1.67		20		
Benzo(b)fluoranthene	36.0	5.0	µg/L	50.0		72.1		40-140	1.71		20		
Benzo(g,h,i)perylene	35.1	5.0	µg/L	50.0		70.2		40-140	7.54		20		
Benzo(k)fluoranthene	38.7	5.0	µg/L	50.0		77.4		40-140	1.01		20		
Bis(2-chloroethoxy)methane	34.5	10	µg/L	50.0		69.0		40-140	0.174		20		
Bis(2-chloroethyl)ether	31.6	10	µg/L	50.0		63.3		40-140	0.158		20		
Bis(2-chloroisopropyl)ether	36.7	10	µg/L	50.0		73.3		40-140	2.18		20		
Bis(2-Ethylhexyl)phthalate	42.9	10	µg/L	50.0		85.7		40-140	7.30		20		
4-Bromophenylphenylether	35.1	10	µg/L	50.0		70.1		40-140	4.07		20		
Butylbenzylphthalate	41.6	10	µg/L	50.0		83.2		40-140	5.99		20		
Carbazole	35.4	10	µg/L	50.0		70.7		40-140	4.40		20		
4-Chloroaniline	25.4	10	µg/L	50.0		50.8		40-140	**21.3**	*	20	R-05	
4-Chloro-3-methylphenol	37.4	10	µg/L	50.0		74.7		30-130	2.27		20		
2-Chloronaphthalene	25.0	10	µg/L	50.0		50.1		40-140	2.68		20		
2-Chlorophenol	29.0	10	µg/L	50.0		58.1		30-130	3.49		20		
4-Chlorophenylphenylether	32.4	10	µg/L	50.0		64.9		40-140	1.29		20		
Chrysene	36.9	5.0	µg/L	50.0		73.8		40-140	3.53		20		
Dibenz(a,h)anthracene	35.0	5.0	µg/L	50.0		70.1		40-140	7.46		20		
Dibenzofuran	32.0	5.0	µg/L	50.0		64.0		40-140	1.64		20		
Di-n-butylphthalate	39.1	10	µg/L	50.0		78.3		40-140	0.357		20		
3,3-Dichlorobenzidine	35.1	10	µg/L	50.0		70.1		40-140	5.60		20		
2,4-Dichlorophenol	32.1	10	µg/L	50.0		64.1		30-130	0.374		20		
Diethylphthalate	37.4	10	µg/L	50.0		74.8		40-140	0.187		20		
2,4-Dimethylphenol	35.4	10	µg/L	50.0		70.8		30-130	0.282		20		
Dimethylphthalate	37.8	10	µg/L	50.0		75.6		40-140	0.824		50		‡
4,6-Dinitro-2-methylphenol	38.8	10	µg/L	50.0		77.6		30-130	0.616		50		‡
2,4-Dinitrophenol	22.3	10	µg/L	50.0		44.6		30-130	24.9		50	V-04	‡
2,4-Dinitrotoluene	34.2	10	µg/L	50.0		68.4		40-140	3.25		20		
2,6-Dinitrotoluene	34.7	10	µg/L	50.0		69.4		40-140	1.00		20		
Di-n-octylphthalate	39.9	10	µg/L	50.0		79.7		40-140	5.15		20		
Fluoranthene	33.7	5.0	µg/L	50.0		67.4		40-140	6.35		20		
Fluorene	32.4	5.0	µg/L	50.0		64.8		40-140	2.44		20		
Hexachlorobenzene	34.8	10	µg/L	50.0		69.7		40-140	5.09		20		
Hexachlorobutadiene	21.5	10	µg/L	50.0		43.0		40-140	5.96		20		
Hexachlorocyclopentadiene	23.1	10	µg/L	50.0		46.2		30-140	5.64		50		† ‡
Hexachloroethane	20.9	10	µg/L	50.0		41.9		40-140	5.08		50		‡
Indeno(1,2,3-cd)pyrene	36.1	5.0	µg/L	50.0		72.1		40-140	7.75		50		‡
Isophorone	36.3	10	µg/L	50.0		72.6		40-140	2.40		20		
2-Methylnaphthalene	29.6	5.0	µg/L	50.0		59.2		40-140	3.03		20		
2-Methylphenol	31.6	10	µg/L	50.0		63.2		30-130	1.41		20		
3/4-Methylphenol	32.5	10	µg/L	50.0		64.9		30-130	1.92		20		
Naphthalene	26.6	5.0	µg/L	50.0		53.2		40-140	4.27		20		
2-Nitroaniline	37.9	10	µg/L	50.0		75.8		40-140	2.00		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312328 - SW-846 3510C										
LCS Dup (B312328-BSD1)				Prepared: 07/06/22 Analyzed: 07/08/22						
3-Nitroaniline	33.4	10	µg/L	50.0		66.9	40-140	10.9	20	
4-Nitroaniline	35.8	10	µg/L	50.0		71.5	40-140	8.72	20	
Nitrobenzene	28.5	10	µg/L	50.0		57.0	40-140	2.05	20	
2-Nitrophenol	30.2	10	µg/L	50.0		60.5	30-130	2.29	20	
4-Nitrophenol	20.7	10	µg/L	50.0		41.4	10-130	7.12	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	39.2	10	µg/L	50.0		78.4	40-140	4.83	20	
N-Nitrosodi-n-propylamine	37.0	10	µg/L	50.0		74.0	40-140	0.542	20	
Pentachlorophenol	31.2	10	µg/L	50.0		62.4	30-130	9.67	50	‡
Phenanthrene	35.3	5.0	µg/L	50.0		70.7	40-140	1.08	20	
Phenol	18.3	10	µg/L	50.0		36.6	20-130	1.84	20	†
Pyrene	38.1	5.0	µg/L	50.0		76.2	40-140	5.22	20	
1,2,4,5-Tetrachlorobenzene	27.1	10	µg/L	50.0		54.3	40-140	1.79	20	
2,4,5-Trichlorophenol	34.7	10	µg/L	50.0		69.4	30-130	0.520	20	
2,4,6-Trichlorophenol	34.3	10	µg/L	50.0		68.7	30-130	0.204	50	‡
Surrogate: 2-Fluorophenol	*89.0*		µg/L	200		44.5	15-110			
Surrogate: Phenol-d6	*72.9*		µg/L	200		36.4	15-110			
Surrogate: Nitrobenzene-d5	*81.0*		µg/L	100		81.0	30-130			
Surrogate: 2-Fluorobiphenyl	*64.5*		µg/L	100		64.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*143*		µg/L	200		71.6	15-110			
Surrogate: p-Terphenyl-d14	*84.4*		µg/L	100		84.4	30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312327 - SW-846 3510C										
Blank (B312327-BLK1)				Prepared: 07/06/22 Analyzed: 07/11/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.30*		µg/L	10.0		23.0	15-110			
LCS (B312327-BS1)				Prepared: 07/06/22 Analyzed: 07/11/22						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140			
Surrogate: 1,4-Dioxane-d8	*2.41*		µg/L	10.0		24.1	15-110			
LCS Dup (B312327-BSD1)				Prepared: 07/06/22 Analyzed: 07/11/22						
1,4-Dioxane	11.3	0.20	µg/L	10.0		113	40-140	6.04	30	
Surrogate: 1,4-Dioxane-d8	*2.26*		µg/L	10.0		22.6	15-110			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312324 - SW-846 3510C										
Blank (B312324-BLK1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.25*		µg/L	2.00		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.28*		µg/L	2.00		64.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		µg/L	2.00		55.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		µg/L	2.00		51.7	30-150			
LCS (B312324-BS1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	0.32	0.20	µg/L	0.500		64.7	40-140			
Aroclor-1016 [2C]	0.31	0.20	µg/L	0.500		62.1	40-140			
Aroclor-1260	0.36	0.20	µg/L	0.500		72.2	40-140			
Aroclor-1260 [2C]	0.35	0.20	µg/L	0.500		69.9	40-140			
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		83.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.69*		µg/L	2.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		µg/L	2.00		53.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		µg/L	2.00		50.5	30-150			
LCS Dup (B312324-BSD1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	0.35	0.20	µg/L	0.500		70.1	40-140	8.02	20	
Aroclor-1016 [2C]	0.34	0.20	µg/L	0.500		67.2	40-140	7.97	20	
Aroclor-1260	0.39	0.20	µg/L	0.500		77.4	40-140	6.94	20	
Aroclor-1260 [2C]	0.37	0.20	µg/L	0.500		74.0	40-140	5.70	20	
Surrogate: Decachlorobiphenyl	*1.59*		µg/L	2.00		79.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.61*		µg/L	2.00		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.14*		µg/L	2.00		57.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		µg/L	2.00		53.5	30-150			

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QUALITY CONTROL

TCLP - Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B312782 - SW-846 5030B											
Blank (B312782-BLK1)				Prepared & Analyzed: 07/12/22							
Benzene	ND	0.010	mg/L								
2-Butanone (MEK)	ND	0.20	mg/L								
Carbon Tetrachloride	ND	0.010	mg/L								
Chlorobenzene	ND	0.010	mg/L								
Chloroform	0.0042	0.010	mg/L							J	
1,4-Dichlorobenzene	ND	0.010	mg/L								
1,2-Dichloroethane	ND	0.010	mg/L								
1,1-Dichloroethylene	ND	0.010	mg/L								
Tetrachloroethylene	ND	0.010	mg/L								
Trichloroethylene	ND	0.010	mg/L								
Vinyl Chloride	ND	0.020	mg/L								
Surrogate: 1,2-Dichloroethane-d4	*0.0205*		mg/L	0.0250		82.2	70-130				
Surrogate: Toluene-d8	*0.0241*		mg/L	0.0250		96.3	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0258*		mg/L	0.0250		103	70-130				
LCS (B312782-BS1)				Prepared & Analyzed: 07/12/22							
Benzene	0.00938	0.0010	mg/L	0.0100		93.8	70-130				
2-Butanone (MEK)	0.0958	0.020	mg/L	0.100		95.8	40-160				†
Carbon Tetrachloride	0.0109	0.0010	mg/L	0.0100		109	70-130				
Chlorobenzene	0.0110	0.0010	mg/L	0.0100		110	70-130				
Chloroform	0.0103	0.0010	mg/L	0.0100		103	70-130				
1,4-Dichlorobenzene	0.0106	0.0010	mg/L	0.0100		106	70-130				
1,2-Dichloroethane	0.00974	0.0010	mg/L	0.0100		97.4	70-130				
1,1-Dichloroethylene	0.00965	0.0010	mg/L	0.0100		96.5	70-130				
Tetrachloroethylene	0.0113	0.0010	mg/L	0.0100		113	70-130				
Trichloroethylene	0.0109	0.0010	mg/L	0.0100		109	70-130				
Vinyl Chloride	0.0101	0.0020	mg/L	0.0100		101	40-160				†
Surrogate: 1,2-Dichloroethane-d4	*0.0247*		mg/L	0.0250		98.6	70-130				
Surrogate: Toluene-d8	*0.0250*		mg/L	0.0250		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0260*		mg/L	0.0250		104	70-130				
LCS Dup (B312782-BSD1)				Prepared & Analyzed: 07/12/22							
Benzene	0.00962	0.0010	mg/L	0.0100		96.2	70-130	2.53	25		
2-Butanone (MEK)	0.104	0.020	mg/L	0.100		104	40-160	8.32	25		†
Carbon Tetrachloride	0.0108	0.0010	mg/L	0.0100		108	70-130	0.831	25		
Chlorobenzene	0.0111	0.0010	mg/L	0.0100		111	70-130	0.271	25		
Chloroform	0.0104	0.0010	mg/L	0.0100		104	70-130	1.45	25		
1,4-Dichlorobenzene	0.0106	0.0010	mg/L	0.0100		106	70-130	0.565	25		
1,2-Dichloroethane	0.00961	0.0010	mg/L	0.0100		96.1	70-130	1.34	25		
1,1-Dichloroethylene	0.00955	0.0010	mg/L	0.0100		95.5	70-130	1.04	25		
Tetrachloroethylene	0.0109	0.0010	mg/L	0.0100		109	70-130	3.15	25		
Trichloroethylene	0.0108	0.0010	mg/L	0.0100		108	70-130	1.11	25		
Vinyl Chloride	0.00898	0.0020	mg/L	0.0100		89.8	40-160	11.4	25		†
Surrogate: 1,2-Dichloroethane-d4	*0.0244*		mg/L	0.0250		97.7	70-130				
Surrogate: Toluene-d8	*0.0244*		mg/L	0.0250		97.8	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0256*		mg/L	0.0250		102	70-130				

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QUALITY CONTROL

TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312841 - SW-846 3510C										
Blank (B312841-BLK1)				Prepared: 07/13/22 Analyzed: 07/15/22						
2,4-Dinitrotoluene	ND	0.043	mg/L							
Hexachlorobenzene	ND	0.043	mg/L							
Hexachlorobutadiene	ND	0.043	mg/L							
Hexachloroethane	ND	0.043	mg/L							
2-Methylphenol	ND	0.043	mg/L							
3/4-Methylphenol	ND	0.043	mg/L							
Nitrobenzene	ND	0.043	mg/L							
Pentachlorophenol	ND	0.043	mg/L							
Pyridine	ND	0.022	mg/L							
2,4,5-Trichlorophenol	ND	0.043	mg/L							
2,4,6-Trichlorophenol	ND	0.043	mg/L							
Surrogate: 2-Fluorophenol	*0.467*		mg/L	0.870		53.7	15-110			
Surrogate: Phenol-d6	*0.439*		mg/L	0.870		50.5	15-110			
Surrogate: Nitrobenzene-d5	*0.379*		mg/L	0.435		87.2	30-130			
Surrogate: 2-Fluorobiphenyl	*0.295*		mg/L	0.435		67.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*0.539*		mg/L	0.870		62.0	15-110			
Surrogate: p-Terphenyl-d14	*0.373*		mg/L	0.435		85.7	30-130			
LCS (B312841-BS1)				Prepared: 07/13/22 Analyzed: 07/15/22						
2,4-Dinitrotoluene	0.0326	0.010	mg/L	0.0500		65.3	40-140			
Hexachlorobenzene	0.0309	0.010	mg/L	0.0500		61.7	40-140			
Hexachlorobutadiene	0.0221	0.010	mg/L	0.0500		44.1	40-140			
Hexachloroethane	0.0205	0.010	mg/L	0.0500		41.0	40-140			
2-Methylphenol	0.0275	0.010	mg/L	0.0500		55.0	30-130			
3/4-Methylphenol	0.0266	0.010	mg/L	0.0500		53.2	30-130			
Nitrobenzene	0.0268	0.010	mg/L	0.0500		53.6	40-140			
Pentachlorophenol	0.0277	0.010	mg/L	0.0500		55.5	30-130			
Pyridine	0.0206	0.0050	mg/L	0.0500		41.1	10-140			†
2,4,5-Trichlorophenol	0.0316	0.010	mg/L	0.0500		63.3	30-130			
2,4,6-Trichlorophenol	0.0296	0.010	mg/L	0.0500		59.3	30-130			
Surrogate: 2-Fluorophenol	*0.0844*		mg/L	0.200		42.2	15-110			
Surrogate: Phenol-d6	*0.0622*		mg/L	0.200		31.1	15-110			
Surrogate: Nitrobenzene-d5	*0.0758*		mg/L	0.100		75.8	30-130			
Surrogate: 2-Fluorobiphenyl	*0.0597*		mg/L	0.100		59.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*0.136*		mg/L	0.200		68.0	15-110			
Surrogate: p-Terphenyl-d14	*0.0890*		mg/L	0.100		89.0	30-130			
LCS Dup (B312841-BSD1)				Prepared: 07/13/22 Analyzed: 07/15/22						
2,4-Dinitrotoluene	0.0302	0.010	mg/L	0.0500		60.3	40-140	7.87	20	
Hexachlorobenzene	0.0319	0.010	mg/L	0.0500		63.8	40-140	3.25	20	
Hexachlorobutadiene	0.0240	0.010	mg/L	0.0500		48.1	40-140	8.59	20	
Hexachloroethane	0.0220	0.010	mg/L	0.0500		44.0	40-140	7.06	50	‡
2-Methylphenol	0.0284	0.010	mg/L	0.0500		56.9	30-130	3.36	20	
3/4-Methylphenol	0.0264	0.010	mg/L	0.0500		52.7	30-130	0.906	20	
Nitrobenzene	0.0291	0.010	mg/L	0.0500		58.2	40-140	8.30	20	
Pentachlorophenol	0.0259	0.010	mg/L	0.0500		51.9	30-130	6.67	50	‡
Pyridine	0.0204	0.0050	mg/L	0.0500		40.8	10-140	0.830	50	† ‡
2,4,5-Trichlorophenol	0.0330	0.010	mg/L	0.0500		65.9	30-130	4.09	20	
2,4,6-Trichlorophenol	0.0315	0.010	mg/L	0.0500		63.0	30-130	6.08	50	‡
Surrogate: 2-Fluorophenol	*0.0824*		mg/L	0.200		41.2	15-110			
Surrogate: Phenol-d6	*0.0601*		mg/L	0.200		30.0	15-110			
Surrogate: Nitrobenzene-d5	*0.0803*		mg/L	0.100		80.3	30-130			

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QUALITY CONTROL

TCLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312841 - SW-846 3510C										
LCS Dup (B312841-BSD1)				Prepared: 07/13/22 Analyzed: 07/15/22						
Surrogate: 2-Fluorobiphenyl	*0.0655*		mg/L	0.100		65.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*0.128*		mg/L	0.200		64.0	15-110			
Surrogate: p-Terphenyl-d14	*0.0845*		mg/L	0.100		84.5	30-130			
Matrix Spike (B312841-MS1)	**Source: 22F1992-01**			Prepared: 07/13/22 Analyzed: 07/15/22						
2,4-Dinitrotoluene	0.122	0.043	mg/L	0.213	ND	57.3	40-140			
Hexachlorobenzene	0.129	0.043	mg/L	0.213	ND	60.5	40-140			
Hexachlorobutadiene	0.108	0.043	mg/L	0.213	ND	50.8	40-140			
Hexachloroethane	0.0972	0.043	mg/L	0.213	ND	45.7	40-140			
2-Methylphenol	0.112	0.043	mg/L	0.213	ND	52.6	40-140			
3/4-Methylphenol	0.115	0.043	mg/L	0.213	ND	54.0	40-140			
Nitrobenzene	0.120	0.043	mg/L	0.213	ND	56.5	40-140			
Pentachlorophenol	0.107	0.043	mg/L	0.213	ND	50.5	40-140			
Pyridine	0.0881	0.021	mg/L	0.213	ND	41.4	40-140			
2,4,5-Trichlorophenol	0.137	0.043	mg/L	0.213	ND	64.4	40-140			
2,4,6-Trichlorophenol	0.134	0.043	mg/L	0.213	ND	62.8	40-140			
Surrogate: 2-Fluorophenol	*0.432*		mg/L	0.851		50.7	15-110			
Surrogate: Phenol-d6	*0.431*		mg/L	0.851		50.6	15-110			
Surrogate: Nitrobenzene-d5	*0.333*		mg/L	0.426		78.2	30-130			
Surrogate: 2-Fluorobiphenyl	*0.285*		mg/L	0.426		67.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*0.514*		mg/L	0.851		60.4	15-110			
Surrogate: p-Terphenyl-d14	*0.310*		mg/L	0.426		72.9	30-130			

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QUALITY CONTROL

TCLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312797 - SW-846 3510C										
Blank (B312797-BLK1)				Prepared: 07/12/22 Analyzed: 07/13/22						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.26*		µg/L	2.00		63.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.35*		µg/L	2.00		67.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		µg/L	2.00		50.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.948*		µg/L	2.00		47.4	30-150			
LCS (B312797-BS1)				Prepared: 07/12/22 Analyzed: 07/13/22						
Aroclor-1016	0.31	0.20	µg/L	0.500		62.5	40-140			
Aroclor-1016 [2C]	0.34	0.20	µg/L	0.500		68.3	40-140			
Aroclor-1260	0.35	0.20	µg/L	0.500		69.5	40-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		83.0	40-140			V-06
Surrogate: Decachlorobiphenyl	*1.48*		µg/L	2.00		73.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		74.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		µg/L	2.00		62.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.13*		µg/L	2.00		56.7	30-150			
LCS Dup (B312797-BSD1)				Prepared: 07/12/22 Analyzed: 07/13/22						
Aroclor-1016	0.32	0.20	µg/L	0.500		64.2	40-140	2.70	20	
Aroclor-1016 [2C]	0.34	0.20	µg/L	0.500		68.7	40-140	0.660	20	
Aroclor-1260	0.36	0.20	µg/L	0.500		72.5	40-140	4.28	20	
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		87.1	40-140	4.78	20	V-06
Surrogate: Decachlorobiphenyl	*1.53*		µg/L	2.00		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.52*		µg/L	2.00		75.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		µg/L	2.00		62.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.14*		µg/L	2.00		57.2	30-150			

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QUALITY CONTROL

TCLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312797 - SW-846 3510C										
Matrix Spike (B312797-MS1)	**Source: 22F1992-01**			Prepared: 07/12/22 Analyzed: 07/13/22						
Aroclor-1016	0.35	0.21	µg/L	0.526	ND	65.6	40-140			
Aroclor-1016 [2C]	0.37	0.21	µg/L	0.526	ND	70.1	40-140			
Aroclor-1260	0.40	0.21	µg/L	0.526	ND	76.1	40-140			
Aroclor-1260 [2C]	0.46	0.21	µg/L	0.526	ND	86.7	40-140			V-06
Surrogate: Decachlorobiphenyl	*1.64*		µg/L	2.11		78.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.62*		µg/L	2.11		76.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.41*		µg/L	2.11		67.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.22*		µg/L	2.11		58.0	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B312324-BS1

Date(s) Analyzed: 07/11/2022 07/11/2022

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.31	3.2
Aroclor-1260	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.35	2.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B312324-BSD1 Date(s) Analyzed: 07/11/2022 07/11/2022

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.34	2.9
Aroclor-1260	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.37	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B312797-BS1 Date(s) Analyzed: 07/13/2022 07/13/2022

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.31	
	2	0.000	0.000	0.000	0.34	9.2
Aroclor-1260	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.42	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B312797-BSD1 Date(s) Analyzed: 07/13/2022 07/13/2022

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.34	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.44	20.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B312797-MS1 Date(s) Analyzed: 07/13/2022 07/13/2022

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.37	5.6
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.46	14.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016	CT,NY,ME,NC,NH,VA
Aroclor-1016 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NY,ME,NC,NH,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NY,ME,NC,NH,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NY,ME,NC,NH,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NY,ME,NC,NH,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NY,ME,NC,NH,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NY,ME,NC,NH,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262	NY,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NY,VA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268	NY,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NY,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthene	ME,NC,NH,NY,VA
Acenaphthylene	ME,NC,NH,NY,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	ME,NC,NH,NY
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	ME,NC,NH,NY,VA
Benzo(a)anthracene	ME,NC,NH,NY,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	ME,NC,NH,NY,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	ME,NC,NH,NY,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	ME,NC,NH,NY,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	ME,NC,NH,NY,VA
Bis(2-chloroisopropyl)ether	ME,NC,NH,NY,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	ME,NC,NH,NY,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	ME,NC,NH,NY,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	ME,NC,NH,NY,VA
Carbazole	NC
4-Chloroaniline	ME,NC,NH,NY,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	NC,NY,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	ME,NC,NH,NY,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	ME,NC,NH,NY,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	ME,NC,NH,NY,VA
Dibenzofuran	ME,NC,NH,NY,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	ME,NC,NH,NY,VA
1,2-Dichlorobenzene	ME,NC,NH,NY,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	ME,NC,NH,NY,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	ME,NC,NH,NY,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	ME,NC,NH,NY,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	ME,NC,NH,NY,VA
Diethylphthalate	ME,NC,NH,NY,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	ME,NC,NH,NY,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	ME,NC,NH,NY,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	ME,NC,NH,NY,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	ME,NC,NH,NY,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Di-n-octylphthalate	ME,NC,NH,NY,VA
Fluoranthene	ME,NC,NH,NY,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	ME,NC,NH,NY,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	ME,NC,NH,CT,NY,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	ME,NC,NH,NY,VA
Isophorone	ME,NC,NH,NY,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	ME,NC,NH,NY,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	ME,NC,NH,CT
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	ME,NC,NH,NY,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	ME,NC,NH,CT,NY,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	ME,NC,NH,NY,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	ME,NC,NH,NY,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	ME,NC,NH,CT,NY,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	ME,NC,NH,NY,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	ME,NC,NH,NY,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	ME,NC,NH,NY,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	ME,NC,NH,CT,NY,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	ME,NC,NH,NY,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

22-1992

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis	Billing Information: Callout ID: 142878 Bill NYSDEC
Address: One Lincoln Center 110 West Fayette St. Syracuse NY	
Report To: Chris Kassel	Email To: Chris.Kassel@arcadis.com
Copy To:	Site Collection Info/Address: 8 Astro Dr. DeWitt NY
Customer Project Name/Number: Northern Circuits	State: NY County/City: / Time Zone Collected: PT MT CT (ET)
Phone: 315-492-0588 Email: Daniel.Meandro@arcadis	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected by (print): Daniel Meandro	Purchase Order #: / DW PWS ID #:
Collected by (signature):	Quote #: / DW Location Code #:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive ____ [ ] Hold ____	Turnaround Date Required: Standard / RUSH: Next Day 2 Day 3 Day 4 Day 5 Day Same Day (Expedite Charges Apply) / Immediately Packed on Ice? [X] Yes [ ] No / Field Filtered (if applicable): [ ] Yes [X] No / Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: Container Preservative Type **	8260 VOC	8270 SVOC	1,4 Dioxane SIM (8270 SIM)	8082 (PCBs)	8260 TCLP	8270 TCLP	TCLP 1,4 Dioxane	TCLP 8082 PCB
									HCl								
IDW-Soil	SL	C	6-29-22	1315				4						X	X	X	X
IDW-Water	WW	C	6-29-22	1320				9		X	X	X	X				
TRIP BLANK	DI	G						2		X							

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

↓ LAB USE ONLY: ↓ Lab Sample # / Comments

Customer Remarks/ Special Conditions/ Possible Hazards:

Category B

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used:

LAB Tracking #:

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Sample Temperature Info:

Temp Blank received: (Y) N NA

Therm ID #:

Cooler 1 Temp Upon Receipt ____ oC

Cooler 1 Therm Corr. Factor ____ oC

Cooler 1 Corrected Temp 3.2 oC

Comments:

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page ____ of ____

	Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
1		6-29-22 1400		6-29-22 1400
2		6-29 1700		
3				

Table of Contents

[redacted]

FedEx® Tracking

DELIVERED

Thursday

6/30/2022 at 9:58 am

Signed for by: R.PETRAITIS

No signature required

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 13 pieces

Get Status Updates

TRACKING ID

777265902754

FROM
East Syracuse, NY US

Label Created
6/29/2022 15:34

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
6/29/2022 16:46

IN TRANSIT
WINDSOR LOCKS, CT
6/30/2022 07:03

OUT FOR DELIVERY
WINDSOR LOCKS, CT
6/30/2022 07:10

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
6/30/2022 at 9:58 AM

View travel history

Manage Delivery

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July 12, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: 8 Adler Dr, Dewitt, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G0276

Enclosed are results of analyses for samples as received by the laboratory on July 7, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 7/12/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0276

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 8 Adler Dr, Dewitt, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-54S	22G0276-01	Ground Water		SW-846 8260D	
SB-55S	22G0276-02	Ground Water		SW-846 8260D	
SB-56S	22G0276-03	Ground Water		SW-846 8260D	
SB-53S	22G0276-04	Ground Water		SW-846 8260D	
DUP-070522	22G0276-05	Ground Water		SW-846 8260D	
Trip Blank	22G0276-06	Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

2-Chloroethyl Vinyl Ether
B312552-BS1, B312552-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Acetone
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1

Acrolein
B312552-BLK1, B312552-BS1, B312552-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B312552-BS1

1,2-Dibromo-3-chloropropane (DB
B312552-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

1,2-Dibromo-3-chloropropane (DB
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

Acetone
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

Acrolein
B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

Chloromethane
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

Naphthalene
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

trans-1,4-Dichloro-2-butene
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Tetrachloroethylene
B312552-BS1, B312552-BSD1, S073729-CCV1

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V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2-Dichloropropane
B312552-BS1, B312552-BSD1, S073729-CCV1

2-Chloroethyl Vinyl Ether
B312552-BS1, B312552-BSD1, S073729-CCV1

Bromomethane
B312552-BS1, B312552-BSD1, S073729-CCV1

Iodomethane
B312552-BS1, B312552-BSD1, S073729-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

Chloromethane
22G0276-01[SB-54S], 22G0276-02[SB-55S], 22G0276-03[SB-56S], 22G0276-04[SB-53S], 22G0276-05[DUP-070522], 22G0276-06[Trip Blank], B312552-BLK1, B312552-BS1, B312552-BSD1, S073729-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-54S | Sampled: 7/5/2022 12:10

Sample ID: 22G0276-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-54S | Sampled: 7/5/2022 12:10

Sample ID: 22G0276-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	81.0	70-130		7/8/22 12:19
Toluene-d8	99.3	70-130		7/8/22 12:19
4-Bromofluorobenzene	99.1	70-130		7/8/22 12:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-55S | Sampled: 7/5/2022 13:00

Sample ID: 22G0276-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.9	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-55S | Sampled: 7/5/2022 13:00

Sample ID: 22G0276-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 12:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	77.7	70-130		7/8/22 12:46
Toluene-d8	100	70-130		7/8/22 12:46
4-Bromofluorobenzene	99.1	70-130		7/8/22 12:46

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-56S | Sampled: 7/5/2022 14:10

Sample ID: 22G0276-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.4	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
cis-1,2-Dichloroethylene	0.80	1.0	0.15	µg/L	1	J	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-56S | Sampled: 7/5/2022 14:10

Sample ID: 22G0276-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.8	70-130		7/8/22 13:12
Toluene-d8	99.1	70-130		7/8/22 13:12
4-Bromofluorobenzene	100	70-130		7/8/22 13:12

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-53S | Sampled: 7/5/2022 15:50

Sample ID: 22G0276-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	11	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Dichlorodifluoromethane (Freon 12)	0.70	2.0	0.19	µg/L	1	J	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: SB-53S | Sampled: 7/5/2022 15:50

Sample ID: 22G0276-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 13:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.7	70-130		7/8/22 13:38
Toluene-d8	99.0	70-130		7/8/22 13:38
4-Bromofluorobenzene	97.3	70-130		7/8/22 13:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: DUP-070522 | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.6	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: DUP-070522 | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 14:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.4	70-130		7/8/22 14:04
Toluene-d8	100	70-130		7/8/22 14:04
4-Bromofluorobenzene	98.0	70-130		7/8/22 14:04

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: Trip Blank | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	V-05, V-34	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0276

Date Received: 7/7/2022

Field Sample #: Trip Blank | Sampled: 7/5/2022 00:00

Sample ID: 22G0276-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/8/22	7/8/22 11:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.8	70-130		7/8/22 11:53
Toluene-d8	101	70-130		7/8/22 11:53
4-Bromofluorobenzene	98.6	70-130		7/8/22 11:53

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Sample Extraction Data

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0276-01 [SB-54S]	B312552	5	5.00	07/08/22
22G0276-02 [SB-55S]	B312552	5	5.00	07/08/22
22G0276-03 [SB-56S]	B312552	5	5.00	07/08/22
22G0276-04 [SB-53S]	B312552	5	5.00	07/08/22
22G0276-05 [DUP-070522]	B312552	5	5.00	07/08/22
22G0276-06 [Trip Blank]	B312552	5	5.00	07/08/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312552 - SW-846 5030B										
Blank (B312552-BLK1)				Prepared & Analyzed: 07/08/22						
Acetone	ND	50	µg/L							L-04, V-05
Acrolein	ND	10	µg/L							L-04, V-05
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
2-Chloroethyl Vinyl Ether	ND	10	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05, V-34
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
Dichlorofluoromethane (Freon 21)	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Difluorochloromethane (Freon 22)	ND	1.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethanol	ND	50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312552 - SW-846 5030B												
Blank (B312552-BLK1)				Prepared & Analyzed: 07/08/22								
Ethyl Acetate	ND	10	µg/L									
Ethylbenzene	ND	1.0	µg/L									
Hexachlorobutadiene	ND	0.60	µg/L									
2-Hexanone (MBK)	ND	10	µg/L									
Iodomethane	ND	20	µg/L									
Isopropylbenzene (Cumene)	ND	1.0	µg/L									
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L									
Methyl Acetate	ND	1.0	µg/L									
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L								V-05	
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L								V-05	
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,3-Trimethylbenzene	ND	0.50	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Acetate	ND	20	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*19.7*		µg/L	25.0		78.8		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		70-130				
LCS (B312552-BS1)				Prepared & Analyzed: 07/08/22								
Acetone	67.2	50	µg/L	100		**67.2**	*	70-160			L-04, V-05	†
Acrolein	66.1	10	µg/L	100		**66.1**	*	70-130			L-04, V-05	
Acrylonitrile	9.82	5.0	µg/L	10.0		98.2		70-130				
tert-Amyl Methyl Ether (TAME)	9.79	0.50	µg/L	10.0		97.9		70-130				
Benzene	9.93	1.0	µg/L	10.0		99.3		70-130				
Bromobenzene	11.0	1.0	µg/L	10.0		110		70-130				
Bromochloromethane	11.2	1.0	µg/L	10.0		112		70-130				
Bromodichloromethane	10.6	0.50	µg/L	10.0		106		70-130				
Bromoform	9.55	1.0	µg/L	10.0		95.5		70-130				
Bromomethane	13.9	2.0	µg/L	10.0		139		40-160			V-20, V-34	†
2-Butanone (MEK)	78.8	20	µg/L	100		78.8		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312552 - SW-846 5030B												
LCS (B312552-BS1)				Prepared & Analyzed: 07/08/22								
tert-Butyl Alcohol (TBA)	77.3	20	µg/L	100		77.3		40-160				†
n-Butylbenzene	9.08	1.0	µg/L	10.0		90.8		70-130				
sec-Butylbenzene	9.50	1.0	µg/L	10.0		95.0		70-130				
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.79	0.50	µg/L	10.0		97.9		70-130				
Carbon Disulfide	99.1	5.0	µg/L	100		99.1		70-130				
Carbon Tetrachloride	9.51	5.0	µg/L	10.0		95.1		70-130				
Chlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101		70-130				
Chloroethane	10.1	2.0	µg/L	10.0		101		70-130				
2-Chloroethyl Vinyl Ether	296	10	µg/L	100		**296**	*	70-130			L-02, V-20	
Chloroform	9.47	2.0	µg/L	10.0		94.7		70-130				
Chloromethane	4.25	2.0	µg/L	10.0		42.5		40-160			V-05, V-34	†
2-Chlorotoluene	10.8	1.0	µg/L	10.0		108		70-130				
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130				
Cyclohexane	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	6.98	5.0	µg/L	10.0		**69.8**	*	70-130			L-07, V-05	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109		70-130				
Dibromomethane	11.1	1.0	µg/L	10.0		111		70-130				
1,2-Dichlorobenzene	9.28	1.0	µg/L	10.0		92.8		70-130				
1,3-Dichlorobenzene	9.53	1.0	µg/L	10.0		95.3		70-130				
1,4-Dichlorobenzene	9.41	1.0	µg/L	10.0		94.1		70-130				
trans-1,4-Dichloro-2-butene	7.84	2.0	µg/L	10.0		78.4		70-130			V-05	
Dichlorodifluoromethane (Freon 12)	8.50	2.0	µg/L	10.0		85.0		40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130				
1,1-Dichloroethylene	9.16	1.0	µg/L	10.0		91.6		70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130				
Dichlorofluoromethane (Freon 21)	8.47	1.0	µg/L	10.0		84.7		70-130				
1,2-Dichloropropane	11.9	1.0	µg/L	10.0		119		70-130			V-20	
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112		70-130				
2,2-Dichloropropane	9.35	1.0	µg/L	10.0		93.5		40-130				†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102		70-130				
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130				
trans-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0		70-130				
Diethyl Ether	9.22	2.0	µg/L	10.0		92.2		70-130				
Difluorochloromethane (Freon 22)	9.90	1.0	µg/L	10.0		99.0		70-130				
Diisopropyl Ether (DIPE)	9.45	0.50	µg/L	10.0		94.5		70-130				
1,4-Dioxane	99.3	50	µg/L	100		99.3		40-130				†
Ethanol	79.7	50	µg/L	100		79.7		40-160				
Ethyl Acetate	9.59	10	µg/L	10.0		95.9		70-130			J	
Ethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Hexachlorobutadiene	9.20	0.60	µg/L	10.0		92.0		70-130				
2-Hexanone (MBK)	92.3	10	µg/L	100		92.3		70-160				†
Iodomethane	123	20	µg/L	100		123		70-130			V-20	
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110		70-130				
p-Isopropyltoluene (p-Cymene)	9.97	1.0	µg/L	10.0		99.7		70-130				
Methyl Acetate	8.07	1.0	µg/L	10.0		80.7		70-130				
Methyl tert-Butyl Ether (MTBE)	9.64	1.0	µg/L	10.0		96.4		70-130				
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109		70-130				
Methylene Chloride	9.76	5.0	µg/L	10.0		97.6		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312552 - SW-846 5030B												
LCS (B312552-BS1)				Prepared & Analyzed: 07/08/22								
4-Methyl-2-pentanone (MIBK)	97.6	10	µg/L	100		97.6		70-160				†
Naphthalene	6.19	2.0	µg/L	10.0		61.9		40-130			V-05	†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107		70-130				
Styrene	11.3	1.0	µg/L	10.0		113		70-130				
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130				
Tetrachloroethylene	12.1	1.0	µg/L	10.0		121		70-130			V-06	
Tetrahydrofuran	8.84	10	µg/L	10.0		88.4		70-130			J	
Toluene	10.9	1.0	µg/L	10.0		109		70-130				
1,2,3-Trichlorobenzene	6.99	5.0	µg/L	10.0		**69.9**	*	70-130			L-07, V-05	
1,2,4-Trichlorobenzene	8.63	1.0	µg/L	10.0		86.3		70-130				
1,3,5-Trichlorobenzene	9.12	1.0	µg/L	10.0		91.2		70-130				
1,1,1-Trichloroethane	9.22	1.0	µg/L	10.0		92.2		70-130				
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115		70-130				
Trichloroethylene	11.4	1.0	µg/L	10.0		114		70-130				
Trichlorofluoromethane (Freon 11)	7.81	2.0	µg/L	10.0		78.1		70-130				
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105		70-130				
1,2,3-Trimethylbenzene	10.3	0.50	µg/L	10.0		103		70-130				
1,2,4-Trimethylbenzene	9.91	1.0	µg/L	10.0		99.1		70-130				
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111		70-130				
Vinyl Acetate	95.5	20	µg/L	100		95.5		70-130				
Vinyl Chloride	9.74	2.0	µg/L	10.0		97.4		40-160				†
m+p Xylene	21.8	2.0	µg/L	20.0		109		70-130				
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130				
Surrogate: 1,2-Dichloroethane-d4	*19.8*		µg/L	25.0		79.2		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100		70-130				
LCS Dup (B312552-BSD1)				Prepared & Analyzed: 07/08/22								
Acetone	69.6	50	µg/L	100		**69.6**	*	70-160	3.36	25	L-04, V-05	†
Acrolein	67.8	10	µg/L	100		**67.8**	*	70-130	2.54	25	L-04, V-05	
Acrylonitrile	10.5	5.0	µg/L	10.0		105		70-130	6.31	25		
tert-Amyl Methyl Ether (TAME)	9.85	0.50	µg/L	10.0		98.5		70-130	0.611	25		
Benzene	9.77	1.0	µg/L	10.0		97.7		70-130	1.62	25		
Bromobenzene	10.9	1.0	µg/L	10.0		109		70-130	1.73	25		
Bromochloromethane	11.4	1.0	µg/L	10.0		114		70-130	1.77	25		
Bromodichloromethane	9.98	0.50	µg/L	10.0		99.8		70-130	5.65	25		
Bromoform	9.78	1.0	µg/L	10.0		97.8		70-130	2.38	25		
Bromomethane	14.5	2.0	µg/L	10.0		145		40-160	3.80	25	V-20, V-34	†
2-Butanone (MEK)	80.5	20	µg/L	100		80.5		40-160	2.24	25		†
tert-Butyl Alcohol (TBA)	80.4	20	µg/L	100		80.4		40-160	3.98	25		†
n-Butylbenzene	8.90	1.0	µg/L	10.0		89.0		70-130	2.00	25		
sec-Butylbenzene	9.54	1.0	µg/L	10.0		95.4		70-130	0.420	25		
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130	1.57	25		
tert-Butyl Ethyl Ether (TBEE)	9.53	0.50	µg/L	10.0		95.3		70-130	2.69	25		
Carbon Disulfide	99.4	5.0	µg/L	100		99.4		70-130	0.343	25		
Carbon Tetrachloride	9.25	5.0	µg/L	10.0		92.5		70-130	2.77	25		
Chlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	3.26	25		
Chlorodibromomethane	10.0	0.50	µg/L	10.0		100		70-130	1.09	25		
Chloroethane	10.0	2.0	µg/L	10.0		100		70-130	0.199	25		
2-Chloroethyl Vinyl Ether	300	10	µg/L	100		**300**	*	70-130	1.37	25	L-02, V-20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B312552 - SW-846 5030B											
LCS Dup (B312552-BSD1)				Prepared & Analyzed: 07/08/22							
Chloroform	9.22	2.0	µg/L	10.0		92.2	70-130	2.68	25		
Chloromethane	4.19	2.0	µg/L	10.0		41.9	40-160	1.42	25	V-05, V-34	†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	2.72	25		
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	2.46	25		
Cyclohexane	10.4	5.0	µg/L	10.0		104	70-130	2.44	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.44	5.0	µg/L	10.0		74.4	70-130	6.38	25	V-05	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	0.366	25		
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	1.18	25		
1,2-Dichlorobenzene	9.25	1.0	µg/L	10.0		92.5	70-130	0.324	25		
1,3-Dichlorobenzene	9.56	1.0	µg/L	10.0		95.6	70-130	0.314	25		
1,4-Dichlorobenzene	9.50	1.0	µg/L	10.0		95.0	70-130	0.952	25		
trans-1,4-Dichloro-2-butene	7.68	2.0	µg/L	10.0		76.8	70-130	2.06	25	V-05	
Dichlorodifluoromethane (Freon 12)	8.68	2.0	µg/L	10.0		86.8	40-160	2.10	25		†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	0.780	25		
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130	1.60	25		
1,1-Dichloroethylene	9.32	1.0	µg/L	10.0		93.2	70-130	1.73	25		
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	0.793	25		
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	1.79	25		
Dichlorofluoromethane (Freon 21)	8.65	1.0	µg/L	10.0		86.5	70-130	2.10	25		
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130	2.47	25	V-20	
1,3-Dichloropropane	11.3	0.50	µg/L	10.0		113	70-130	0.532	25		
2,2-Dichloropropane	8.97	1.0	µg/L	10.0		89.7	40-130	4.15	25		†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130	0.883	25		
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	0.483	25		
trans-1,3-Dichloropropene	9.77	0.50	µg/L	10.0		97.7	70-130	0.307	25		
Diethyl Ether	9.32	2.0	µg/L	10.0		93.2	70-130	1.08	25		
Difluorochloromethane (Freon 22)	10.1	1.0	µg/L	10.0		101	70-130	1.90	25		
Diisopropyl Ether (DIPE)	9.68	0.50	µg/L	10.0		96.8	70-130	2.40	25		
1,4-Dioxane	100	50	µg/L	100		100	40-130	1.19	50		† ‡
Ethanol	92.0	50	µg/L	100		92.0	40-160	14.3	25		
Ethyl Acetate	10.4	10	µg/L	10.0		104	70-130	7.82	25		
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.10	25		
Hexachlorobutadiene	9.54	0.60	µg/L	10.0		95.4	70-130	3.63	25		
2-Hexanone (MBK)	93.8	10	µg/L	100		93.8	70-160	1.59	25		†
Iodomethane	118	20	µg/L	100		118	70-130	4.16	25	V-20	
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107	70-130	2.67	25		
p-Isopropyltoluene (p-Cymene)	9.89	1.0	µg/L	10.0		98.9	70-130	0.806	25		
Methyl Acetate	8.41	1.0	µg/L	10.0		84.1	70-130	4.13	25		
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.0		98.2	70-130	1.85	25		
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130	0.550	25		
Methylene Chloride	9.66	5.0	µg/L	10.0		96.6	70-130	1.03	25		
4-Methyl-2-pentanone (MIBK)	98.2	10	µg/L	100		98.2	70-160	0.521	25		†
Naphthalene	6.22	2.0	µg/L	10.0		62.2	40-130	0.483	25	V-05	†
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130	1.80	25		
Styrene	11.1	1.0	µg/L	10.0		111	70-130	1.61	25		
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107	70-130	0.464	25		
1,1,2,2-Tetrachloroethane	9.92	0.50	µg/L	10.0		99.2	70-130	2.29	25		
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113	70-130	6.77	25	V-06	
Tetrahydrofuran	9.39	10	µg/L	10.0		93.9	70-130	6.03	25	J	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	1.95	25		
1,2,3-Trichlorobenzene	7.26	5.0	µg/L	10.0		72.6	70-130	3.79	25	V-05	
1,2,4-Trichlorobenzene	8.69	1.0	µg/L	10.0		86.9	70-130	0.693	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312552 - SW-846 5030B										
LCS Dup (B312552-BSD1)				Prepared & Analyzed: 07/08/22						
1,3,5-Trichlorobenzene	9.05	1.0	µg/L	10.0		90.5	70-130	0.770	25	
1,1,1-Trichloroethane	9.16	1.0	µg/L	10.0		91.6	70-130	0.653	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	5.25	25	
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	0.352	25	
Trichlorofluoromethane (Freon 11)	8.36	2.0	µg/L	10.0		83.6	70-130	6.80	25	
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	1.52	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130	2.90	25	
1,2,3-Trimethylbenzene	10.3	0.50	µg/L	10.0		103	70-130	0.292	25	
1,2,4-Trimethylbenzene	9.75	1.0	µg/L	10.0		97.5	70-130	1.63	25	
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	2.28	25	
Vinyl Acetate	96.6	20	µg/L	100		96.6	70-130	1.17	25	
Vinyl Chloride	9.74	2.0	µg/L	10.0		97.4	40-160	0.00	25	†
m+p Xylene	21.5	2.0	µg/L	20.0		107	70-130	1.39	25	
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130	1.04	25	
Surrogate: 1,2-Dichloroethane-d4	*19.5*		µg/L	25.0		77.8	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		99.0	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 220276

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis	Billing Information: Bill NYSDEC
Address: One Lincoln Center, 110 West Fayette St. Syracuse NY	Cullent ID: 142878
Report To: Chris Kassel	Email To: Chris.Kassel@arcadis.com
Copy To: Mark.Fluschke@arcadis.com	Site Collection Info/Address: 8 Adler Dr. DeWitt NY
Customer Project Name/Number:	State: NY County/City: DeWitt Time Zone Collected: PT MT CT ET
Phone: 315-992-0568 Email: Daniel.Maundo@arcadis	Site/Facility ID #:
Collected by (print): Dan Maundo	Purchase Order #:
Collected by (signature):	Quote #:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold	Turnaround Date Required: 3 Day RUSH: Next Day 2 Day 3 Day Same Day 4 Day 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #:
	DW Location Code #:
	Immediately Packed on Ice? [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] No
	Analysis:

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 8260	LAB USE ONLY: Lab Sample # / Comments
SB-545	GW	G	7-5-22	1210				3	X	1
SB-555	GW	G	7-5-22	1300				3	X	2
SB-565	GW	G	7-5-22	1410				3	X	3
SB-535	GW	G	7-5-22	1550				3	X	4
DUP-070522	GW	G	7-5-22	/				3	X	5
TRIP BLANK	DI	C	/	/				2	X	6

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

Customer Remarks/ Special Conditions/ Possible Hazards:

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used:

LAB Tracking #:

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

Relinquished by/Company: (Signature) HNA	Date/Time: 7-5-22 1600	Received by/Company: (Signature) PACE	Date/Time: 7/5/22 1600
Relinquished by/Company: (Signature) PACE	Date/Time: 7/6/22 1700	Received by/Company: (Signature)	Date/Time: 7/7 945
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #:

Cooler 1 Temp Upon Receipt: oC

Cooler 1 Therm Corr. Factor: oC

Cooler 1 Corrected Temp: oC

Comments:

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

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[redacted]

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July 13, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: 8 Adler Dr, Dewitt, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G0489

Enclosed are results of analyses for samples as received by the laboratory on July 9, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 7/13/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0489

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 8 Adler Dr, Dewitt, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-55I	22G0489-01	Ground Water		SW-846 8260D	
SB-55D	22G0489-02	Ground Water		SW-846 8260D	
Trip Blank	22G0489-03	Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate
B312671-BS1, B312671-BSD1, S073779-CCV1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B312671-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Chloromethane
B312671-BS1, B312671-BSD1, S073779-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B312671-BS1, B312671-BSD1, S073779-CCV1

Bromoform
B312671-BS1, B312671-BSD1, S073779-CCV1

Carbon Disulfide
B312671-BS1, B312671-BSD1, S073779-CCV1

Methyl Acetate
B312671-BS1, B312671-BSD1, S073779-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55I | Sampled: 7/8/2022 10:30

Sample ID: 22G0489-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromodichloromethane	0.80	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromoform	1.2	2.0	0.38	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
2-Butanone (MEK)	3.3	20	1.6	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chlorobenzene	0.57	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chlorodibromomethane	0.98	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloroform	2.0	2.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichlorobenzene	0.42	1.0	0.12	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,4-Dichlorobenzene	0.33	1.0	0.13	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Toluene	0.69	1.0	0.22	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55I | Sampled: 7/8/2022 10:30

Sample ID: 22G0489-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 14:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		7/11/22 14:35
Toluene-d8	97.2	70-130		7/11/22 14:35
4-Bromofluorobenzene	97.7	70-130		7/11/22 14:35

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55D | Sampled: 7/8/2022 14:20

Sample ID: 22G0489-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1-Dichloroethane	0.20	1.0	0.14	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: SB-55D | Sampled: 7/8/2022 14:20

Sample ID: 22G0489-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		7/11/22 15:03
Toluene-d8	98.3	70-130		7/11/22 15:03
4-Bromofluorobenzene	98.0	70-130		7/11/22 15:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/8/2022 12:00

Sample ID: 22G0489-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.0	50	2.0	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
trans-1,2-Dichloroethylene	0.38	1.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Styrene	0.11	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Toluene	1.4	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH

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Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0489

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/8/2022 12:00

Sample ID: 22G0489-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 12:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		7/11/22 12:44
Toluene-d8	98.6	70-130		7/11/22 12:44
4-Bromofluorobenzene	97.9	70-130		7/11/22 12:44

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Sample Extraction Data

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0489-01 [SB-55I]	B312671	5	5.00	07/11/22
22G0489-02 [SB-55D]	B312671	5	5.00	07/11/22
22G0489-03 [Trip Blank]	B312671	5	5.00	07/11/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312671 - SW-846 5030B										
Blank (B312671-BLK1)				Prepared & Analyzed: 07/11/22						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312671 - SW-846 5030B												
Blank (B312671-BLK1)				Prepared & Analyzed: 07/11/22								
o-Xylene	ND	1.0	µg/L									
Xylenes (total)	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.9		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.0		70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3		70-130				
LCS (B312671-BS1)				Prepared & Analyzed: 07/11/22								
Acetone	101	50	µg/L	100		101		70-160				†
Benzene	9.34	1.0	µg/L	10.0		93.4		70-130				
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130				
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130				
Bromoform	12.0	1.0	µg/L	10.0		120		70-130			V-20	
Bromomethane	8.84	2.0	µg/L	10.0		88.4		40-160				†
2-Butanone (MEK)	102	20	µg/L	100		102		40-160				†
Carbon Disulfide	126	5.0	µg/L	100		126		70-130			V-20	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107		70-130				
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109		70-130				
Chloroethane	10.3	2.0	µg/L	10.0		103		70-130				
Chloroform	9.94	2.0	µg/L	10.0		99.4		70-130				
Chloromethane	8.61	2.0	µg/L	10.0		86.1		40-160			R-05	†
Cyclohexane	10.5	5.0	µg/L	10.0		105		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130				
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
Dichlorodifluoromethane (Freon 12)	10.8	2.0	µg/L	10.0		108		40-160				†
1,1-Dichloroethane	9.67	1.0	µg/L	10.0		96.7		70-130				
1,2-Dichloroethane	9.58	1.0	µg/L	10.0		95.8		70-130				
1,1-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0		70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,2-Dichloroethylene	9.63	1.0	µg/L	10.0		96.3		70-130				
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		70-130				
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130				
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105		70-130				
1,4-Dioxane	103	50	µg/L	100		103		40-130				†
Ethylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
2-Hexanone (MBK)	107	10	µg/L	100		107		70-160				†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110		70-130				
Methyl Acetate	14.4	1.0	µg/L	10.0		**144**	*	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101		70-130				
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109		70-130				
Methylene Chloride	9.98	5.0	µg/L	10.0		99.8		70-130				
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100		109		70-160				†
Styrene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117		70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130				
Toluene	9.80	1.0	µg/L	10.0		98.0		70-130				
1,2,3-Trichlorobenzene	11.6	5.0	µg/L	10.0		116		70-130				
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130				
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B312671 - SW-846 5030B													
LCS (B312671-BS1)				Prepared & Analyzed: 07/11/22									
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110		70-130					
Trichloroethylene	10.6	1.0	µg/L	10.0		106		70-130					
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105		70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117		70-130				V-20	
Vinyl Chloride	7.36	2.0	µg/L	10.0		73.6		40-160					†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130					
o-Xylene	11.2	1.0	µg/L	10.0		112		70-130					
Xylenes (total)	32.8	1.0	µg/L	30.0		110		0-200					
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.9		70-130					
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1		70-130					
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103		70-130					
LCS Dup (B312671-BSD1)				Prepared & Analyzed: 07/11/22									
Acetone	104	50	µg/L	100		104		70-160	2.70		25		†
Benzene	10.0	1.0	µg/L	10.0		100		70-130	7.02		25		
Bromochloromethane	10.7	1.0	µg/L	10.0		107		70-130	4.28		25		
Bromodichloromethane	11.2	0.50	µg/L	10.0		112		70-130	8.58		25		
Bromoform	12.3	1.0	µg/L	10.0		123		70-130	3.04		25	V-20	
Bromomethane	10.8	2.0	µg/L	10.0		108		40-160	20.0		25		†
2-Butanone (MEK)	106	20	µg/L	100		106		40-160	3.23		25		†
Carbon Disulfide	136	5.0	µg/L	100		**136**	*	70-130	7.46		25	L-07, V-20	
Carbon Tetrachloride	11.6	5.0	µg/L	10.0		116		70-130	7.27		25		
Chlorobenzene	11.7	1.0	µg/L	10.0		117		70-130	6.24		25		
Chlorodibromomethane	11.7	0.50	µg/L	10.0		117		70-130	6.55		25		
Chloroethane	11.2	2.0	µg/L	10.0		112		70-130	8.12		25		
Chloroform	10.9	2.0	µg/L	10.0		109		70-130	8.94		25		
Chloromethane	11.3	2.0	µg/L	10.0		113		40-160	**26.7**	*	25	R-05	†
Cyclohexane	11.7	5.0	µg/L	10.0		117		70-130	10.4		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111		70-130	9.69		25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112		70-130	3.62		25		
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	6.70		25		
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	5.72		25		
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	3.28		25		
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117		40-160	7.47		25		†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130	9.74		25		
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101		70-130	5.48		25		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130	9.52		25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	8.97		25		
trans-1,2-Dichloroethylene	9.92	1.0	µg/L	10.0		99.2		70-130	2.97		25		
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108		70-130	6.29		25		
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109		70-130	7.22		25		
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110		70-130	4.66		25		
1,4-Dioxane	108	50	µg/L	100		108		40-130	5.11		50		† ‡
Ethylbenzene	11.5	1.0	µg/L	10.0		115		70-130	5.27		25		
2-Hexanone (MBK)	113	10	µg/L	100		113		70-160	6.00		25		†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118		70-130	7.01		25		
Methyl Acetate	14.6	1.0	µg/L	10.0		**146**	*	70-130	1.10		25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130	5.56		25		
Methyl Cyclohexane	11.8	1.0	µg/L	10.0		118		70-130	7.91		25		
Methylene Chloride	10.7	5.0	µg/L	10.0		107		70-130	6.59		25		
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113		70-160	4.35		25		†
Styrene	11.6	1.0	µg/L	10.0		116		70-130	7.13		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B312671 - SW-846 5030B											
LCS Dup (B312671-BSD1)				Prepared & Analyzed: 07/11/22							
1,1,2,2-Tetrachloroethane	12.2	0.50	µg/L	10.0		122	70-130	4.44	25		
Tetrachloroethylene	12.6	1.0	µg/L	10.0		126	70-130	9.11	25		
Toluene	10.7	1.0	µg/L	10.0		107	70-130	8.78	25		
1,2,3-Trichlorobenzene	12.9	5.0	µg/L	10.0		129	70-130	10.5	25		
1,2,4-Trichlorobenzene	12.4	1.0	µg/L	10.0		124	70-130	10.6	25		
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	6.46	25		
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	4.89	25		
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	6.36	25		
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130	5.00	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8	1.0	µg/L	10.0		128	70-130	8.50	25	V-20	
Vinyl Chloride	7.57	2.0	µg/L	10.0		75.7	40-160	2.81	25		†
m+p Xylene	23.3	2.0	µg/L	20.0		117	70-130	7.51	25		
o-Xylene	12.0	1.0	µg/L	10.0		120	70-130	7.06	25		
Xylenes (total)	35.4	1.0	µg/L	30.0		118	0-200	7.36			
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.6	70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

22C0489

ALL SHADED AREAS are for LAB USE ONLY

Company: Arcadis	**Billing Information:** Callout ID: 142 878
Address: One Lincoln Center 110 West Fayette St. Syracuse NY	Bill NYSDEC
Report To: Chris Kassel	**Email To:** Chris.Kassel@arcadis.com
Copy To: Mark.Elnsche@arcadis.com	**Site Collection Info/Address:** Addison Dr. DeWitt, NY
Customer Project Name/Number: Northern Circuits	State: NY County/City: Syracuse Time Zone Collected: PT MT CT ET
Phone: 315-992-0568 **Email:** Daniel.Meandro@arcadis.com	**Site/Facility ID #**
Collected by (print): Dan Meandro	**Purchase Order #**
Collected by (signature):	**Quote #**
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold	**Turnaround Date Required:** 3 Day RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #:
	DW Location Code #:
	Immediately Packed on Ice? [ ] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses: 8260

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns		LAB USE ONLY: Lab Sample # / Comments
SB-55I	GW	G	7-8-22	1130				3	X	1
SB-55D	GW	G	7-8-22	1420				3	X	2
TRIP BLANK	DI	G	7-8-22	1200				2	X	3

Customer Remarks/ Special Conditions/ Possible Hazards: Category B Deliverable

Type of Ice Used: Wet [ ] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y (N) N/A

Packing Material Used:

LAB Tracking #:

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: [ ] FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

Relinquished by/Company: (Signature) ANA	Date/Time: 7-8-22 1500	Received by/Company: (Signature)	Date/Time: 7/8/22 1570
Relinquished by/Company: (Signature) ACE	Date/Time: 7/8/22 1700	Received by/Company: (Signature) 2.0	Date/Time: 719 943
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
ACCT #:
Template:
Prelogin:
PM:
PB:

LAB Sample Temperature Info:

Temp Blank received: Y N NA
Therm ID #:
Cooler 1 Temp Upon Receipt _____ oC
Cooler 1 Therm Corr. Factor _____ oC
Cooler 1 Corrected Temp _____ oC
Comments:

Trip Blank Received: Y N N/A
HCL MeOH TSP Other

NonConformance(s) YES / NO

Page _____ of _____

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[redacted]

FedEx® Tracking

DELIVERED

Saturday

7/9/2022 at 9:43 am

Signed for by: M.RIOS

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

Get Status Updates

TRACKING ID

777340593654

FROM
East Syracuse, NY US

Label Created
7/8/2022 14:34

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
7/8/2022 15:52

IN TRANSIT
WINDSOR LOCKS, CT
7/9/2022 08:13

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/9/2022 08:18

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
7/9/2022 at 9:43 AM

View travel history

Manage Delivery

2 Piece Shipment

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July 13, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: 8 Adler Dr, Dewitt, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G0490

Enclosed are results of analyses for samples as received by the laboratory on July 9, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 7/13/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0490

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 8 Adler Dr, Dewitt, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-53I	22G0490-01	Ground Water		SW-846 8260D	
SB-53D	22G0490-02	Ground Water		SW-846 8260D	
Trip Blank	22G0490-03	Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate
B312671-BS1, B312671-BSD1, S073779-CCV1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B312671-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Chloromethane
B312671-BS1, B312671-BSD1, S073779-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B312671-BS1, B312671-BSD1, S073779-CCV1

Bromoform
B312671-BS1, B312671-BSD1, S073779-CCV1

Carbon Disulfide
B312671-BS1, B312671-BSD1, S073779-CCV1

Methyl Acetate
B312671-BS1, B312671-BSD1, S073779-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53I | Sampled: 7/7/2022 10:15

Sample ID: 22G0490-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloroethane	0.73	2.0	0.32	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1-Dichloroethane	0.35	1.0	0.14	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
cis-1,2-Dichloroethylene	0.34	1.0	0.15	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53I | Sampled: 7/7/2022 10:15

Sample ID: 22G0490-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		7/11/22 15:31
Toluene-d8	97.7	70-130		7/11/22 15:31
4-Bromofluorobenzene	97.9	70-130		7/11/22 15:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53D | Sampled: 7/7/2022 15:20

Sample ID: 22G0490-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chlorobenzene	0.11	1.0	0.11	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1-Dichloroethane	5.8	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
4-Methyl-2-pentanone (MIBK)	12	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: SB-53D | Sampled: 7/7/2022 15:20

Sample ID: 22G0490-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 15:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		7/11/22 15:58
Toluene-d8	97.6	70-130		7/11/22 15:58
4-Bromofluorobenzene	96.8	70-130		7/11/22 15:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/7/2022 12:00

Sample ID: 22G0490-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.8	50	2.0	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloroform	0.18	2.0	0.17	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Methylene Chloride	0.75	5.0	0.23	µg/L	1	J	SW-846 8260D	7/11/22	7/11/22 13:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, Dewitt, NY | Sample Description: | Work Order: 22G0490

Date Received: 7/9/2022

Field Sample #: Trip Blank | Sampled: 7/7/2022 12:00

Sample ID: 22G0490-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	7/11/22	7/11/22 13:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.8	70-130		7/11/22 13:12
Toluene-d8	98.2	70-130		7/11/22 13:12
4-Bromofluorobenzene	96.4	70-130		7/11/22 13:12

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Sample Extraction Data

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0490-01 [SB-53I]	B312671	5	5.00	07/11/22
22G0490-02 [SB-53D]	B312671	5	5.00	07/11/22
22G0490-03 [Trip Blank]	B312671	5	5.00	07/11/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312671 - SW-846 5030B										
Blank (B312671-BLK1)				Prepared & Analyzed: 07/11/22						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312671 - SW-846 5030B												
Blank (B312671-BLK1)				Prepared & Analyzed: 07/11/22								
o-Xylene	ND	1.0	µg/L									
Xylenes (total)	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.9		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.0		70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3		70-130				
LCS (B312671-BS1)				Prepared & Analyzed: 07/11/22								
Acetone	101	50	µg/L	100		101		70-160				†
Benzene	9.34	1.0	µg/L	10.0		93.4		70-130				
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130				
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130				
Bromoform	12.0	1.0	µg/L	10.0		120		70-130			V-20	
Bromomethane	8.84	2.0	µg/L	10.0		88.4		40-160				†
2-Butanone (MEK)	102	20	µg/L	100		102		40-160				†
Carbon Disulfide	126	5.0	µg/L	100		126		70-130			V-20	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107		70-130				
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109		70-130				
Chloroethane	10.3	2.0	µg/L	10.0		103		70-130				
Chloroform	9.94	2.0	µg/L	10.0		99.4		70-130				
Chloromethane	8.61	2.0	µg/L	10.0		86.1		40-160			R-05	†
Cyclohexane	10.5	5.0	µg/L	10.0		105		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130				
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
Dichlorodifluoromethane (Freon 12)	10.8	2.0	µg/L	10.0		108		40-160				†
1,1-Dichloroethane	9.67	1.0	µg/L	10.0		96.7		70-130				
1,2-Dichloroethane	9.58	1.0	µg/L	10.0		95.8		70-130				
1,1-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0		70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,2-Dichloroethylene	9.63	1.0	µg/L	10.0		96.3		70-130				
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		70-130				
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130				
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105		70-130				
1,4-Dioxane	103	50	µg/L	100		103		40-130				†
Ethylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
2-Hexanone (MBK)	107	10	µg/L	100		107		70-160				†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110		70-130				
Methyl Acetate	14.4	1.0	µg/L	10.0		**144**	*	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101		70-130				
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109		70-130				
Methylene Chloride	9.98	5.0	µg/L	10.0		99.8		70-130				
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100		109		70-160				†
Styrene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117		70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130				
Toluene	9.80	1.0	µg/L	10.0		98.0		70-130				
1,2,3-Trichlorobenzene	11.6	5.0	µg/L	10.0		116		70-130				
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130				
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B312671 - SW-846 5030B													
LCS (B312671-BS1)				Prepared & Analyzed: 07/11/22									
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110		70-130					
Trichloroethylene	10.6	1.0	µg/L	10.0		106		70-130					
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105		70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117		70-130				V-20	
Vinyl Chloride	7.36	2.0	µg/L	10.0		73.6		40-160					†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130					
o-Xylene	11.2	1.0	µg/L	10.0		112		70-130					
Xylenes (total)	32.8	1.0	µg/L	30.0		110		0-200					
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.9		70-130					
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1		70-130					
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103		70-130					
LCS Dup (B312671-BSD1)				Prepared & Analyzed: 07/11/22									
Acetone	104	50	µg/L	100		104		70-160	2.70		25		†
Benzene	10.0	1.0	µg/L	10.0		100		70-130	7.02		25		
Bromochloromethane	10.7	1.0	µg/L	10.0		107		70-130	4.28		25		
Bromodichloromethane	11.2	0.50	µg/L	10.0		112		70-130	8.58		25		
Bromoform	12.3	1.0	µg/L	10.0		123		70-130	3.04		25	V-20	
Bromomethane	10.8	2.0	µg/L	10.0		108		40-160	20.0		25		†
2-Butanone (MEK)	106	20	µg/L	100		106		40-160	3.23		25		†
Carbon Disulfide	136	5.0	µg/L	100		**136**	*	70-130	7.46		25	L-07, V-20	
Carbon Tetrachloride	11.6	5.0	µg/L	10.0		116		70-130	7.27		25		
Chlorobenzene	11.7	1.0	µg/L	10.0		117		70-130	6.24		25		
Chlorodibromomethane	11.7	0.50	µg/L	10.0		117		70-130	6.55		25		
Chloroethane	11.2	2.0	µg/L	10.0		112		70-130	8.12		25		
Chloroform	10.9	2.0	µg/L	10.0		109		70-130	8.94		25		
Chloromethane	11.3	2.0	µg/L	10.0		113		40-160	**26.7**	*	25	R-05	†
Cyclohexane	11.7	5.0	µg/L	10.0		117		70-130	10.4		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111		70-130	9.69		25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112		70-130	3.62		25		
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	6.70		25		
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	5.72		25		
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	3.28		25		
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117		40-160	7.47		25		†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130	9.74		25		
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101		70-130	5.48		25		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130	9.52		25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	8.97		25		
trans-1,2-Dichloroethylene	9.92	1.0	µg/L	10.0		99.2		70-130	2.97		25		
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108		70-130	6.29		25		
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109		70-130	7.22		25		
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110		70-130	4.66		25		
1,4-Dioxane	108	50	µg/L	100		108		40-130	5.11		50		† ‡
Ethylbenzene	11.5	1.0	µg/L	10.0		115		70-130	5.27		25		
2-Hexanone (MBK)	113	10	µg/L	100		113		70-160	6.00		25		†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118		70-130	7.01		25		
Methyl Acetate	14.6	1.0	µg/L	10.0		**146**	*	70-130	1.10		25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130	5.56		25		
Methyl Cyclohexane	11.8	1.0	µg/L	10.0		118		70-130	7.91		25		
Methylene Chloride	10.7	5.0	µg/L	10.0		107		70-130	6.59		25		
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113		70-160	4.35		25		†
Styrene	11.6	1.0	µg/L	10.0		116		70-130	7.13		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B312671 - SW-846 5030B											
LCS Dup (B312671-BSD1)				Prepared & Analyzed: 07/11/22							
1,1,2,2-Tetrachloroethane	12.2	0.50	µg/L	10.0		122	70-130	4.44	25		
Tetrachloroethylene	12.6	1.0	µg/L	10.0		126	70-130	9.11	25		
Toluene	10.7	1.0	µg/L	10.0		107	70-130	8.78	25		
1,2,3-Trichlorobenzene	12.9	5.0	µg/L	10.0		129	70-130	10.5	25		
1,2,4-Trichlorobenzene	12.4	1.0	µg/L	10.0		124	70-130	10.6	25		
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	6.46	25		
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	4.89	25		
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	6.36	25		
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130	5.00	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8	1.0	µg/L	10.0		128	70-130	8.50	25	V-20	
Vinyl Chloride	7.57	2.0	µg/L	10.0		75.7	40-160	2.81	25		†
m+p Xylene	23.3	2.0	µg/L	20.0		117	70-130	7.51	25		
o-Xylene	12.0	1.0	µg/L	10.0		120	70-130	7.06	25		
Xylenes (total)	35.4	1.0	µg/L	30.0		118	0-200	7.36			
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.6	70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

220490

ALL SHADED AREAS are for LAB USE ONLY

Company: Royal Adhesives and Sealants, LLC (Arcadis)	Billing Information: Callout CD: 142578 8,11 NYS DEC
Address: One Lincoln Center 110 West Fayette St. Syracuse NY	
Report To: Chris Kassel	Email To: Chris.Kassel@arcadis.com
Copy To: Mark.Fluschke@arcadis.com	Site Collection Info/Address: 8 Acker Dr. DeWitt, NY
Customer Project Name/Number: Northern Circuits	State: NY County/City: DeWitt Time Zone Collected: PT MT CT (ET)
Phone: 315-992-0568 Email: Daniel.Meanstro@arcadis.com	Site/Facility ID #: Compliance Monitoring? [X] Yes [ ] No
Collected by (print): Dan Meanstro	Purchase Order #: DW PWS ID #:
Collected by (signature):	Quote #: DW Location Code #:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold	Turnaround Date Required: 3 Day RUSH: Same Day Next Day 2 Day (3 Day) 4 Day 5 Day (Expedite Charges Apply)
	Immediately Packed on Ice? [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] No
	Analysis:

Container Preservative Type **: 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 8260	LAB USE ONLY: Lab Sample # / Comments
SB-53I	GW	G	7-7-22	1015				3	X	1
SB-53D	GW	G	7-7-22	1520				3	X	2
TRIP BLANK	DT	—	—	—				2	X	3

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	(Y)	N	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples received on ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in holding time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips:			
Sample pH Acceptable	Y	N	(NA)
pH Strips:			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

Customer Remarks/ Special Conditions/ Possible Hazards: Category B Deliverable

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y (N) N/A

Packing Material Used:

LAB Tracking #:

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #:

Cooler 1 Temp Upon Receipt: oC

Cooler 1 Therm Corr. Factor: oC

Cooler 1 Corrected Temp: oC

Comments:

Trip Blank Received: Y N N/A HCL MeOH TSP Other

NonConformance(s): YES / NO

Page: of

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ANA	7.7.22 1550	RM CPAS	7/7/22 1550
RM CPAS	7/8/22 1700		7/9 943
		2.0	

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[redacted]

FedEx® Tracking

DELIVERED

Saturday

7/9/2022 at 9:43 am

Signed for by: M.RIOS

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

Get Status Updates

TRACKING ID

777340593654

FROM
East Syracuse, NY US

Label Created
7/8/2022 14:34

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
7/8/2022 15:52

IN TRANSIT
WINDSOR LOCKS, CT
7/9/2022 08:13

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/9/2022 08:18

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
7/9/2022 at 9:43 AM

View travel history

Manage Delivery

2 Piece Shipment

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 15, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: 8 Adler Dr, E. Syracuse, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G0669

Enclosed are results of analyses for samples as received by the laboratory on July 13, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 7/15/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0669

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 8 Adler Dr, E. Syracuse, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-54I	22G0669-01	Ground Water		SW-846 8260D	
SB-54D	22G0669-02	Ground Water		SW-846 8260D	
Trip Blank	22G0669-03	Ground Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B312957-BS1, B312957-BSD1, S073965-CCV1

Methyl Acetate
B312957-BS1, B312957-BSD1, S073965-CCV1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B312957-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene
22G0669-01[SB-54I], 22G0669-02[SB-54D], 22G0669-03[Trip Blank], B312957-BLK1, B312957-BS1, B312957-BSD1, S073965-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B312957-BS1, B312957-BSD1, S073965-CCV1

Carbon Disulfide
B312957-BS1, B312957-BSD1, S073965-CCV1

Dichlorodifluoromethane (Freon 12
B312957-BS1, B312957-BSD1, S073965-CCV1

Methyl Acetate
B312957-BS1, B312957-BSD1, S073965-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54I | Sampled: 7/11/2022 11:10

Sample ID: 22G0669-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	10	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
sec-Butylbenzene	0.19	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54I | Sampled: 7/11/2022 11:10

Sample ID: 22G0669-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Hexachlorobutadiene	ND	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Isopropylbenzene (Cumene)	0.16	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
p-Isopropyltoluene (p-Cymene)	0.13	1.0	0.097	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
n-Propylbenzene	0.20	1.0	0.086	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,2,4-Trimethylbenzene	2.7	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
1,3,5-Trimethylbenzene	0.83	1.0	0.11	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:20	EEH
m+p Xylene	0.81	2.0	0.46	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH
o-Xylene	0.85	1.0	0.23	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/14/22 13:20
Toluene-d8	102	70-130		7/14/22 13:20
4-Bromofluorobenzene	100	70-130		7/14/22 13:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54D | Sampled: 7/11/2022 14:55

Sample ID: 22G0669-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	18	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: SB-54D | Sampled: 7/11/2022 14:55

Sample ID: 22G0669-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Hexachlorobutadiene	ND	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 13:47	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 13:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		7/14/22 13:47
Toluene-d8	101	70-130		7/14/22 13:47
4-Bromofluorobenzene	102	70-130		7/14/22 13:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: Trip Blank | Sampled: 7/11/2022 13:00

Sample ID: 22G0669-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	7.5	50	2.0	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloroform	0.22	2.0	0.17	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,2-Dichloroethylene	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 8 Adler Dr, E. Syracuse, NY | Sample Description: | Work Order: 22G0669

Date Received: 7/13/2022

Field Sample #: Trip Blank | Sampled: 7/11/2022 13:00

Sample ID: 22G0669-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Hexachlorobutadiene	ND	1.0	0.46	µg/L	1	V-05	SW-846 8260D	7/14/22	7/14/22 11:30	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Toluene	1.1	1.0	0.22	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	7/14/22	7/14/22 11:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/14/22 11:30
Toluene-d8	99.0	70-130		7/14/22 11:30
4-Bromofluorobenzene	102	70-130		7/14/22 11:30

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Sample Extraction Data

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0669-01 [SB-54I]	B312957	5	5.00	07/14/22
22G0669-02 [SB-54D]	B312957	5	5.00	07/14/22
22G0669-03 [Trip Blank]	B312957	5	5.00	07/14/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312957 - SW-846 5030B										
Blank (B312957-BLK1)				Prepared & Analyzed: 07/14/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							V-05
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312957 - SW-846 5030B												
Blank (B312957-BLK1)				Prepared & Analyzed: 07/14/22								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L									
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		100		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102		70-130				
LCS (B312957-BS1)				Prepared & Analyzed: 07/14/22								
Acetone	97.8	50	µg/L	100		97.8		70-160				†
Acrylonitrile	9.88	5.0	µg/L	10.0		98.8		70-130				
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106		70-130				
Benzene	9.57	1.0	µg/L	10.0		95.7		70-130				
Bromobenzene	10.9	1.0	µg/L	10.0		109		70-130				
Bromochloromethane	9.98	1.0	µg/L	10.0		99.8		70-130				
Bromodichloromethane	10.5	0.50	µg/L	10.0		105		70-130				
Bromoform	10.9	1.0	µg/L	10.0		109		70-130				
Bromomethane	10.6	2.0	µg/L	10.0		106		40-160				†
2-Butanone (MEK)	92.8	20	µg/L	100		92.8		40-160				†
tert-Butyl Alcohol (TBA)	111	20	µg/L	100		111		40-160				†
n-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103		70-130				
Carbon Disulfide	144	5.0	µg/L	100		**144**	*	70-130			L-02, V-20	
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110		70-130				
Chlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110		70-130				
Chloroethane	11.0	2.0	µg/L	10.0		110		70-130				
Chloroform	10.4	2.0	µg/L	10.0		104		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312957 - SW-846 5030B												
LCS (B312957-BS1)				Prepared & Analyzed: 07/14/22								
Chloromethane	9.27	2.0	µg/L	10.0		92.7		40-160				†
2-Chlorotoluene	9.99	1.0	µg/L	10.0		99.9		70-130				
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130				
Dibromomethane	10.4	1.0	µg/L	10.0		104		70-130				
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106		70-130				
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.0		117		40-160			V-20	†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,2-Dichloroethane	9.30	1.0	µg/L	10.0		93.0		70-130				
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107		70-130				
cis-1,2-Dichloroethylene	9.97	1.0	µg/L	10.0		99.7		70-130				
trans-1,2-Dichloroethylene	9.36	1.0	µg/L	10.0		93.6		70-130				
1,2-Dichloropropane	9.89	1.0	µg/L	10.0		98.9		70-130				
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102		70-130				
2,2-Dichloropropane	10.9	1.0	µg/L	10.0		109		40-130				†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106		70-130				
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130				
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130				
Diethyl Ether	10.3	2.0	µg/L	10.0		103		70-130				
Diisopropyl Ether (DIPE)	9.81	0.50	µg/L	10.0		98.1		70-130				
1,4-Dioxane	108	50	µg/L	100		108		40-130				†
Ethylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
Hexachlorobutadiene	7.98	0.60	µg/L	10.0		79.8		70-130			V-05	
2-Hexanone (MBK)	97.7	10	µg/L	100		97.7		70-160				†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109		70-130				
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102		70-130				
Methyl Acetate	14.1	1.0	µg/L	10.0		**141**	*	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105		70-130				
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108		70-130				
Methylene Chloride	10.5	5.0	µg/L	10.0		105		70-130				
4-Methyl-2-pentanone (MIBK)	97.7	10	µg/L	100		97.7		70-160				†
Naphthalene	11.0	2.0	µg/L	10.0		110		40-130				†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Styrene	11.2	1.0	µg/L	10.0		112		70-130				
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111		70-130				
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108		70-130				
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130				
Tetrahydrofuran	9.74	10	µg/L	10.0		97.4		70-130			J	
Toluene	9.96	1.0	µg/L	10.0		99.6		70-130				
1,2,3-Trichlorobenzene	9.82	5.0	µg/L	10.0		98.2		70-130				
1,2,4-Trichlorobenzene	9.51	1.0	µg/L	10.0		95.1		70-130				
1,3,5-Trichlorobenzene	8.91	1.0	µg/L	10.0		89.1		70-130				
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109		70-130				
Trichloroethylene	10.7	1.0	µg/L	10.0		107		70-130				
Trichlorofluoromethane (Freon 11)	11.5	2.0	µg/L	10.0		115		70-130				
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312957 - SW-846 5030B												
LCS (B312957-BS1)				Prepared & Analyzed: 07/14/22								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.2	1.0	µg/L	10.0		**132**	*	70-130			L-07, V-20	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
Vinyl Chloride	12.4	2.0	µg/L	10.0		124		40-160				†
m+p Xylene	21.8	2.0	µg/L	20.0		109		70-130				
o-Xylene	11.0	1.0	µg/L	10.0		110		70-130				
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		94.7		70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104		70-130				
LCS Dup (B312957-BSD1)				Prepared & Analyzed: 07/14/22								
Acetone	101	50	µg/L	100		101		70-160	2.81	25		†
Acrylonitrile	10.3	5.0	µg/L	10.0		103		70-130	3.97	25		
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107		70-130	0.845	25		
Benzene	9.67	1.0	µg/L	10.0		96.7		70-130	1.04	25		
Bromobenzene	11.3	1.0	µg/L	10.0		113		70-130	3.51	25		
Bromochloromethane	10.1	1.0	µg/L	10.0		101		70-130	0.997	25		
Bromodichloromethane	10.7	0.50	µg/L	10.0		107		70-130	2.17	25		
Bromoform	11.1	1.0	µg/L	10.0		111		70-130	2.27	25		
Bromomethane	12.8	2.0	µg/L	10.0		128		40-160	18.4	25		†
2-Butanone (MEK)	95.0	20	µg/L	100		95.0		40-160	2.33	25		†
tert-Butyl Alcohol (TBA)	117	20	µg/L	100		117		40-160	5.88	25		†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	2.64	25		
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	2.82	25		
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130	0.190	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107		70-130	3.90	25		
Carbon Disulfide	146	5.0	µg/L	100		**146**	*	70-130	1.58	25	L-02, V-20	
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110		70-130	0.00	25		
Chlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	4.57	25		
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114		70-130	2.95	25		
Chloroethane	11.8	2.0	µg/L	10.0		118		70-130	6.78	25		
Chloroform	10.9	2.0	µg/L	10.0		109		70-130	4.22	25		
Chloromethane	11.0	2.0	µg/L	10.0		110		40-160	17.5	25		†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104		70-130	4.21	25		
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112		70-130	4.20	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109		70-130	8.29	25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130	1.68	25		
Dibromomethane	10.7	1.0	µg/L	10.0		107		70-130	2.18	25		
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	2.13	25		
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	4.98	25		
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	4.18	25		
trans-1,4-Dichloro-2-butene	10.4	2.0	µg/L	10.0		104		70-130	1.82	25		
Dichlorodifluoromethane (Freon 12)	11.8	2.0	µg/L	10.0		118		40-160	0.766	25	V-20	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103		70-130	0.978	25		
1,2-Dichloroethane	9.63	1.0	µg/L	10.0		96.3		70-130	3.49	25		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130	1.30	25		
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130	3.06	25		
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130	6.61	25		
1,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1		70-130	0.812	25		
1,3-Dichloropropane	10.9	0.50	µg/L	10.0		109		70-130	6.62	25		
2,2-Dichloropropane	11.4	1.0	µg/L	10.0		114		40-130	4.47	25		†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106		70-130	0.471	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B312957 - SW-846 5030B												
LCS Dup (B312957-BSD1)				Prepared & Analyzed: 07/14/22								
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	0.378	25		
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107		70-130	0.928	25		
Diethyl Ether	10.8	2.0	µg/L	10.0		108		70-130	3.89	25		
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102		70-130	3.70	25		
1,4-Dioxane	110	50	µg/L	100		110		40-130	2.24	50		† ‡
Ethylbenzene	11.3	1.0	µg/L	10.0		113		70-130	4.06	25		
Hexachlorobutadiene	8.77	0.60	µg/L	10.0		87.7		70-130	9.43	25	V-05	
2-Hexanone (MBK)	103	10	µg/L	100		103		70-160	5.29	25		†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112		70-130	2.80	25		
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105		70-130	3.77	25		
Methyl Acetate	15.2	1.0	µg/L	10.0		**152**	*	70-130	7.45	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.0		110		70-130	4.82	25		
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108		70-130	0.0927	25		
Methylene Chloride	10.7	5.0	µg/L	10.0		107		70-130	1.79	25		
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103		70-160	5.43	25		†
Naphthalene	12.0	2.0	µg/L	10.0		120		40-130	8.73	25		†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110		70-130	2.29	25		
Styrene	11.4	1.0	µg/L	10.0		114		70-130	2.48	25		
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114		70-130	2.74	25		
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114		70-130	6.31	25		
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108		70-130	1.59	25		
Tetrahydrofuran	9.68	10	µg/L	10.0		96.8		70-130	0.618	25	J	
Toluene	10.1	1.0	µg/L	10.0		101		70-130	1.59	25		
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108		70-130	9.23	25		
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	5.82	25		
1,3,5-Trichlorobenzene	9.51	1.0	µg/L	10.0		95.1		70-130	6.51	25		
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130	0.720	25		
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130	1.54	25		
Trichloroethylene	10.8	1.0	µg/L	10.0		108		70-130	1.02	25		
Trichlorofluoromethane (Freon 11)	11.5	2.0	µg/L	10.0		115		70-130	0.521	25		
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110		70-130	3.70	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.9	1.0	µg/L	10.0		129		70-130	2.61	25	V-20	
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106		70-130	3.07	25		
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114		70-130	3.13	25		
Vinyl Chloride	11.6	2.0	µg/L	10.0		116		40-160	6.43	25		†
m+p Xylene	22.5	2.0	µg/L	20.0		112		70-130	2.84	25		
o-Xylene	11.4	1.0	µg/L	10.0		114		70-130	3.49	25		
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.6		70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6		70-130				
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105		70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 1260669

ALL SHADED AREAS are for LAB USE ONLY

Company: Royal Adhesives and Sealants, LLC Accounts	Billing Information: Bill NYS Dec Cortland ID: 142878
Address: One Lincoln Centre 110 West Fayette St. Syracuse NY	
Report To: Chris Kassel	Email To: Chris.Kassel@arcadis.com
Copy To: Mark Fluschke	Site Collection Info/Address: 8 Adler Dr. E. Syracuse NY
Customer Project Name/Number: Northern Circuits	State: NY County/City: E. Syracuse Time Zone Collected: PT MT CT (ET)
Phone: 315-492-0568 Email: Daniel.Meander@arcadis.com	Site/Facility ID #:
Collected by (print): Dan Meander	Purchase Order #:
Collected by (signature):	Quote #:
Sample Disposal: (X) Dispose as appropriate [ ] Return [ ] Archive _____ [ ] Hold _____	Turnaround Date Required: 3 Day RUSH: Next Day 2 Day (3 Day) 4 Day Same Day 5 Day (Expedite Charges Apply)
	Compliance Monitoring? (X) Yes [ ] No
	DW PWS ID #:
	DW Location Code #:
	Immediately Packed on Ice? (X) Yes [ ] No
	Field Filtered (if applicable): [ ] Yes (X) No
	Analysis: _____

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Lab Profile/Line:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 8260	↓ LAB USE ONLY: ↓ Lab Sample # / Comments
SB-54I	GU	G	7-11-22	1110	-	-	-	3	X	
SB-54D	GU	G	7-11-22	1455	-	-		3	X	
TRIP BLANK	DI	-	7/11/22	1300	-	-	-	2	X	

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	(Y)	N	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples received on Ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in holding time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips: _____			
Sample pH Acceptable	Y	N	(NA)
pH Strips: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

Customer Remarks/ Special Conditions/ Possible Hazards: CCAeGyG B deliverable

Type of Ice Used: (Wet) (X) Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used:

LAB Tracking #:

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier (X) Pace Courier [ ]

MTJL LAB USE ONLY

Table #: _____

ACCT #: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: _____

Cooler 1 Temp Upon Receipt _____ oC

Cooler 1 Therm Corr. Factor _____ oC

Cooler 1 Corrected Temp _____ oC

Comments: _____

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page _____ of _____

	Date/Time:	Received by/Company : (Signature)	Date/Time:
Relinquished by/Company : (Signature) ANA	7-11-22 3:50		7.11.22 3:50
Relinquished by/Company : (Signature)	7.12.22 1200		7/13 923
Relinquished by/Company : (Signature)			

[redacted]

FedEx® Tracking

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Wednesday

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777366910762

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East Syracuse, NY US

Label Created
7/12/2022 14:42

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
7/12/2022 15:57

IN TRANSIT
WINDSOR LOCKS, CT
7/13/2022 07:09

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/13/2022 07:17

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
7/13/2022 at 9:23 AM

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Manage Delivery

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August 16, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: E. Syracuse, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G1683

Enclosed are results of analyses for samples as received by the laboratory on July 29, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 8/16/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G1683

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: E. Syracuse, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-19D	22G1683-01	Ground Water		SW-846 8260D	
				SW-846 8270E	
MW-19S	22G1683-02	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
MW-20S	22G1683-03	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
MW-20D	22G1683-04	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
MW-11S	22G1683-05	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
MW-12S	22G1683-06	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
MW-17S	22G1683-07	Ground Water		SW-846 8260D	
				SW-846 8270E	
DUP-072822	22G1683-08	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
Trip Blank	22G1683-09	Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Sulfate

22G1683-02[MW-19S], B314847-MS1

SW-846 6010D

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium

22G1683-02[MW-19S], 22G1683-05[MW-11S], B314518-MS1, B314518-MSD1

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

2-Chloroethyl Vinyl Ether

B314258-BS1, B314258-BSD1

Iodomethane

B314258-BS1, B314258-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB

22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1

Acrolein

B314258-BLK1, B314258-BS1, B314258-BSD1

Chloromethane

22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B314258-BS1

Bromochloromethane

B314258-BS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Naphthalene

22G1683-02[MW-19S], B314258-MS1, B314258-MSD1

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MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22G1683-02[MW-19S], B314258-MS1, B314258-MSD1

1,2-Dibromo-3-chloropropane (DB
22G1683-02[MW-19S], B314258-MS1, B314258-MSD1

Chloromethane
22G1683-02[MW-19S], B314258-MS1, B314258-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B314258-MS1, B314258-MSD1

Bromochloromethane
B314258-MS1, B314258-MSD1

Bromomethane
B314258-MS1, B314258-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

1,2-Dibromo-3-chloropropane (DB
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

Acrolein
B314258-BLK1, B314258-BS1, B314258-BSD1, S074727-CCV1

Chloromethane
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

Methyl Acetate
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

Naphthalene
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Chloroethyl Vinyl Ether
B314258-BS1, B314258-BSD1, S074727-CCV1

Bromochloromethane
B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

Bromomethane
B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

Iodomethane
B314258-BS1, B314258-BSD1, S074727-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1

Chloromethane
22G1683-01[MW-19D], 22G1683-02[MW-19S], 22G1683-03[MW-20S], 22G1683-04[MW-20D], 22G1683-07[MW-17S], 22G1683-08[DUP-072822], 22G1683-09[Trip Blank], B314258-BLK1, B314258-BS1, B314258-BSD1, B314258-MS1, B314258-MSD1, S074727-CCV1

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Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

1,4-Dichlorobenzene-d4
22G1683-08RE1[DUP-072822]

1,4-Dioxane
22G1683-08RE1[DUP-072822]

1,4-Dioxane-d8
22G1683-08RE1[DUP-072822]

1,4-Dioxane-d8 (IS)
22G1683-08RE1[DUP-072822]

S-10

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8
22G1683-08[DUP-072822]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	110	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.6	70-130		8/1/22 11:54
Toluene-d8	95.1	70-130		8/1/22 11:54
4-Bromofluorobenzene	104	70-130		8/1/22 11:54

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19D | Sampled: 7/28/2022 10:50

Sample ID: 22G1683-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 12:56	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	15.6	15-110			8/8/22 12:56

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	78	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, MS-09, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, MS-09, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	MS-07A, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	MS-09, V-05	SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.1	70-130		8/1/22 12:21
Toluene-d8	96.7	70-130		8/1/22 12:21
4-Bromofluorobenzene	103	70-130		8/1/22 12:21

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	2.3	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 13:16	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.5	15-110		8/8/22 13:16

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

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Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	330	0.50	0.11	mg/L	1	MS-19	SW-846 6010D	8/4/22	8/13/22 19:24	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-19S | Sampled: 7/28/2022 11:45

Sample ID: 22G1683-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	270	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 11:43	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 21:47	CB2
Sulfate	580	25	14	mg/L	25	MS-07	EPA 300.0	8/10/22	8/10/22 19:11	EC
Total Organic Carbon	2.1	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 16:37	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	15	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloroethane	1.1	2.0	0.32	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Dichlorodifluoromethane (Freon 12)	1.1	2.0	0.19	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
cis-1,2-Dichloroethylene	0.38	1.0	0.15	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
Vinyl Chloride	1.0	2.0	0.21	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 12:47	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 12:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.2	70-130		8/1/22 12:47
Toluene-d8	96.6	70-130		8/1/22 12:47
4-Bromofluorobenzene	102	70-130		8/1/22 12:47

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	0.031	µg/L	1		SW-846 8270E	8/3/22	8/8/22 13:37	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.0	15-110			8/8/22 13:37

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	120	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:29	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20S | Sampled: 7/28/2022 14:05

Sample ID: 22G1683-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	410	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 11:48	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:09	CB2
Sulfate	43	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:09	CB2
Total Organic Carbon	8.7	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 17:24	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	43	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloroethane	11	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.1	70-130		8/1/22 13:13
Toluene-d8	95.3	70-130		8/1/22 13:13
4-Bromofluorobenzene	105	70-130		8/1/22 13:13

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	37	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 18:58	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.0	15-110			8/8/22 18:58

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	630	5.0	1.1	mg/L	10		SW-846 6010D	8/4/22	8/15/22 22:41	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-20D | Sampled: 7/28/2022 15:25

Sample ID: 22G1683-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	300	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:12	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:31	CB2
Sulfate	280	50	27	mg/L	50		EPA 300.0	8/10/22	8/10/22 20:18	EC
Total Organic Carbon	2.0	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 17:40	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-11S | Sampled: 7/28/2022 14:47

Sample ID: 22G1683-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	90	0.50	0.11	mg/L	1	MS-19	SW-846 6010D	8/1/22	8/3/22 19:50	JLC

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-11S | Sampled: 7/28/2022 14:47

Sample ID: 22G1683-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	310	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:17	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:54	CB2
Sulfate	17	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 22:54	CB2
Total Organic Carbon	2.2	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 18:55	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-12S | Sampled: 7/28/2022 16:07

Sample ID: 22G1683-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	120	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:40	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-12S | Sampled: 7/28/2022 16:07

Sample ID: 22G1683-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	430	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:39	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:16	CB2
Sulfate	33	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:16	CB2
Total Organic Carbon	2.8	1.0	0.54	mg/L	1		SM 21-23 5310B	8/4/22	8/4/22 19:11	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	130	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chlorobenzene	0.36	1.0	0.11	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 13:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.5	70-130		8/1/22 13:40
Toluene-d8	94.9	70-130		8/1/22 13:40
4-Bromofluorobenzene	102	70-130		8/1/22 13:40

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: MW-17S | Sampled: 7/28/2022 16:45

Sample ID: 22G1683-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 19:18	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	16.7	15-110			8/8/22 19:18

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	14	50	2.0	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloroethane	0.39	2.0	0.32	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Dichlorodifluoromethane (Freon 12)	1.2	2.0	0.19	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
cis-1,2-Dichloroethylene	0.28	1.0	0.15	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
Vinyl Chloride	1.0	2.0	0.21	µg/L	1	J	SW-846 8260D	8/1/22	8/1/22 14:06	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 14:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.3	70-130		8/1/22 14:06
Toluene-d8	96.6	70-130		8/1/22 14:06
4-Bromofluorobenzene	105	70-130		8/1/22 14:06

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	3.0	0.19	0.031	µg/L	1	H-06	SW-846 8270E	8/9/22	8/10/22 23:32	SPF
1,4-Dioxane	3.1	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 19:38	SPF

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	18.7		15-110	H-06	8/10/22 23:32
1,4-Dioxane-d8	**14.6**	*	15-110	S-10	8/8/22 19:38

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	110	0.50	0.11	mg/L	1		SW-846 6010D	8/4/22	8/13/22 19:46	ATP

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: DUP-072822 | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-08

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	400	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 12:58	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:38	CB2
Sulfate	43	1.0	0.55	mg/L	1		EPA 300.0	7/29/22	7/29/22 23:38	CB2
Total Organic Carbon	8.5	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 16:41	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: Trip Blank | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	L-04, V-05, V-34	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	L-04, V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1683

Date Received: 7/29/2022

Field Sample #: Trip Blank | Sampled: 7/28/2022 00:00

Sample ID: 22G1683-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	V-05	SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/1/22	8/1/22 11:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.3	70-130		8/1/22 11:28
Toluene-d8	95.6	70-130		8/1/22 11:28
4-Bromofluorobenzene	104	70-130		8/1/22 11:28

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314258 - SW-846 5030B										
Blank (B314258-BLK1)				Prepared & Analyzed: 08/01/22						
Acetone	ND	50	µg/L							
Acrolein	ND	10	µg/L							L-04, V-05
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
2-Chloroethyl Vinyl Ether	ND	10	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							L-04, V-05, V-34
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							L-04, V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
Dichlorofluoromethane (Freon 21)	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Difluorochloromethane (Freon 22)	ND	1.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethanol	ND	50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314258 - SW-846 5030B												
Blank (B314258-BLK1)				Prepared & Analyzed: 08/01/22								
Ethyl Acetate	ND	10	µg/L									
Ethylbenzene	ND	1.0	µg/L									
Hexachlorobutadiene	ND	0.60	µg/L									
2-Hexanone (MBK)	ND	10	µg/L									
Iodomethane	ND	20	µg/L									
Isopropylbenzene (Cumene)	ND	1.0	µg/L									
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L									
Methyl Acetate	ND	1.0	µg/L								V-05	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L								V-05	
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L								V-05	
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,3-Trimethylbenzene	ND	0.50	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Acetate	ND	20	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*20.2*		µg/L	25.0		80.8		70-130				
Surrogate: Toluene-d8	*23.7*		µg/L	25.0		95.0		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		70-130				
LCS (B314258-BS1)				Prepared & Analyzed: 08/01/22								
Acetone	73.4	50	µg/L	100		73.4		70-160				†
Acrolein	64.6	10	µg/L	100		**64.6**	*	70-130			L-04, V-05	
Acrylonitrile	10.4	5.0	µg/L	10.0		104		70-130				
tert-Amyl Methyl Ether (TAME)	10.5	0.50	µg/L	10.0		105		70-130				
Benzene	10.6	1.0	µg/L	10.0		106		70-130				
Bromobenzene	10.5	1.0	µg/L	10.0		105		70-130				
Bromochloromethane	13.6	1.0	µg/L	10.0		**136**	*	70-130			L-07, V-20	
Bromodichloromethane	10.2	0.50	µg/L	10.0		102		70-130				
Bromoform	9.75	1.0	µg/L	10.0		97.5		70-130				
Bromomethane	15.1	2.0	µg/L	10.0		151		40-160			V-20, V-34	†
2-Butanone (MEK)	78.8	20	µg/L	100		78.8		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314258 - SW-846 5030B												
LCS (B314258-BS1)				Prepared & Analyzed: 08/01/22								
tert-Butyl Alcohol (TBA)	82.7	20	µg/L	100		82.7		40-160				†
n-Butylbenzene	8.22	1.0	µg/L	10.0		82.2		70-130				
sec-Butylbenzene	8.71	1.0	µg/L	10.0		87.1		70-130				
tert-Butylbenzene	9.34	1.0	µg/L	10.0		93.4		70-130				
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.0		100		70-130				
Carbon Disulfide	101	5.0	µg/L	100		101		70-130				
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106		70-130				
Chlorobenzene	11.2	1.0	µg/L	10.0		112		70-130				
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109		70-130				
Chloroethane	10.1	2.0	µg/L	10.0		101		70-130				
2-Chloroethyl Vinyl Ether	275	10	µg/L	100		**275**	*	70-130			L-02, V-20	
Chloroform	10.7	2.0	µg/L	10.0		107		70-130				
Chloromethane	3.80	2.0	µg/L	10.0		**38.0**	*	40-160			L-04, V-05, V-34	†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110		70-130				
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108		70-130				
Cyclohexane	10.4	5.0	µg/L	10.0		104		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	6.37	5.0	µg/L	10.0		**63.7**	*	70-130			L-04, V-05	
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130				
Dibromomethane	11.2	1.0	µg/L	10.0		112		70-130				
1,2-Dichlorobenzene	9.56	1.0	µg/L	10.0		95.6		70-130				
1,3-Dichlorobenzene	9.78	1.0	µg/L	10.0		97.8		70-130				
1,4-Dichlorobenzene	9.48	1.0	µg/L	10.0		94.8		70-130				
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100		70-130				
Dichlorodifluoromethane (Freon 12)	9.22	2.0	µg/L	10.0		92.2		40-160				†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130				
1,1-Dichloroethylene	9.79	1.0	µg/L	10.0		97.9		70-130				
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130				
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130				
Dichlorofluoromethane (Freon 21)	9.02	1.0	µg/L	10.0		90.2		70-130				
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113		70-130				
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107		70-130				
2,2-Dichloropropane	10.6	1.0	µg/L	10.0		106		40-130				†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107		70-130				
cis-1,3-Dichloropropene	9.96	0.50	µg/L	10.0		99.6		70-130				
trans-1,3-Dichloropropene	9.48	0.50	µg/L	10.0		94.8		70-130				
Diethyl Ether	8.68	2.0	µg/L	10.0		86.8		70-130				
Difluorochloromethane (Freon 22)	10.2	1.0	µg/L	10.0		102		70-130				
Diisopropyl Ether (DIPE)	9.24	0.50	µg/L	10.0		92.4		70-130				
1,4-Dioxane	105	50	µg/L	100		105		40-130				†
Ethanol	67.0	50	µg/L	100		67.0		40-160				
Ethyl Acetate	10.0	10	µg/L	10.0		100		70-130				
Ethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Hexachlorobutadiene	7.76	0.60	µg/L	10.0		77.6		70-130				
2-Hexanone (MBK)	86.3	10	µg/L	100		86.3		70-160				†
Iodomethane	139	20	µg/L	100		**139**	*	70-130			L-02, V-20	
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130				
p-Isopropyltoluene (p-Cymene)	9.16	1.0	µg/L	10.0		91.6		70-130				
Methyl Acetate	7.93	1.0	µg/L	10.0		79.3		70-130			V-05	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104		70-130				
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106		70-130				
Methylene Chloride	9.46	5.0	µg/L	10.0		94.6		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314258 - SW-846 5030B												
LCS (B314258-BS1)				Prepared & Analyzed: 08/01/22								
4-Methyl-2-pentanone (MIBK)	89.6	10	µg/L	100		89.6		70-160				†
Naphthalene	5.99	2.0	µg/L	10.0		59.9		40-130			V-05	†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Styrene	10.7	1.0	µg/L	10.0		107		70-130				
1,1,1,2-Tetrachloroethane	11.8	1.0	µg/L	10.0		118		70-130				
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103		70-130				
Tetrachloroethylene	12.0	1.0	µg/L	10.0		120		70-130				
Tetrahydrofuran	9.00	10	µg/L	10.0		90.0		70-130			J	
Toluene	10.8	1.0	µg/L	10.0		108		70-130				
1,2,3-Trichlorobenzene	6.84	5.0	µg/L	10.0		**68.4**	*	70-130			L-07, V-05	
1,2,4-Trichlorobenzene	8.24	1.0	µg/L	10.0		82.4		70-130				
1,3,5-Trichlorobenzene	8.78	1.0	µg/L	10.0		87.8		70-130				
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
Trichloroethylene	11.7	1.0	µg/L	10.0		117		70-130				
Trichlorofluoromethane (Freon 11)	8.58	2.0	µg/L	10.0		85.8		70-130				
1,2,3-Trichloropropane	11.3	2.0	µg/L	10.0		113		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4	1.0	µg/L	10.0		124		70-130				
1,2,3-Trimethylbenzene	9.69	0.50	µg/L	10.0		96.9		70-130				
1,2,4-Trimethylbenzene	9.04	1.0	µg/L	10.0		90.4		70-130				
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Vinyl Acetate	92.6	20	µg/L	100		92.6		70-130				
Vinyl Chloride	9.52	2.0	µg/L	10.0		95.2		40-160				†
m+p Xylene	21.5	2.0	µg/L	20.0		108		70-130				
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130				
Surrogate: 1,2-Dichloroethane-d4	*19.4*		µg/L	25.0		77.4		70-130				
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.3		70-130				
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105		70-130				
LCS Dup (B314258-BSD1)				Prepared & Analyzed: 08/01/22								
Acetone	70.1	50	µg/L	100		70.1		70-160	4.52	25		†
Acrolein	63.2	10	µg/L	100		**63.2**	*	70-130	2.28	25	L-04, V-05	
Acrylonitrile	10.2	5.0	µg/L	10.0		102		70-130	2.04	25		
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106		70-130	0.569	25		
Benzene	10.7	1.0	µg/L	10.0		107		70-130	0.562	25		
Bromobenzene	10.5	1.0	µg/L	10.0		105		70-130	0.477	25		
Bromochloromethane	12.7	1.0	µg/L	10.0		127		70-130	6.60	25	V-20	
Bromodichloromethane	10.0	0.50	µg/L	10.0		100		70-130	2.27	25		
Bromoform	9.87	1.0	µg/L	10.0		98.7		70-130	1.22	25		
Bromomethane	14.9	2.0	µg/L	10.0		149		40-160	1.00	25	V-20, V-34	†
2-Butanone (MEK)	79.2	20	µg/L	100		79.2		40-160	0.494	25		†
tert-Butyl Alcohol (TBA)	84.6	20	µg/L	100		84.6		40-160	2.31	25		†
n-Butylbenzene	8.07	1.0	µg/L	10.0		80.7		70-130	1.84	25		
sec-Butylbenzene	8.73	1.0	µg/L	10.0		87.3		70-130	0.229	25		
tert-Butylbenzene	9.37	1.0	µg/L	10.0		93.7		70-130	0.321	25		
tert-Butyl Ethyl Ether (TBEE)	9.89	0.50	µg/L	10.0		98.9		70-130	1.11	25		
Carbon Disulfide	96.5	5.0	µg/L	100		96.5		70-130	4.03	25		
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103		70-130	2.69	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	3.81	25		
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130	2.88	25		
Chloroethane	10.1	2.0	µg/L	10.0		101		70-130	0.198	25		
2-Chloroethyl Vinyl Ether	275	10	µg/L	100		**275**	*	70-130	0.116	25	L-02, V-20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314258 - SW-846 5030B												
LCS Dup (B314258-BSD1)				Prepared & Analyzed: 08/01/22								
Chloroform	10.5	2.0	µg/L	10.0		105		70-130	1.51	25		
Chloromethane	3.79	2.0	µg/L	10.0		**37.9**	*	40-160	0.264	25	L-04, V-05, V-34	†
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130	3.99	25		
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130	1.68	25		
Cyclohexane	9.98	5.0	µg/L	10.0		99.8		70-130	3.93	25		
1,2-Dibromo-3-chloropropane (DBCP)	6.42	5.0	µg/L	10.0		**64.2**	*	70-130	0.782	25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109		70-130	2.42	25		
Dibromomethane	10.5	1.0	µg/L	10.0		105		70-130	6.08	25		
1,2-Dichlorobenzene	9.27	1.0	µg/L	10.0		92.7		70-130	3.08	25		
1,3-Dichlorobenzene	9.52	1.0	µg/L	10.0		95.2		70-130	2.69	25		
1,4-Dichlorobenzene	9.55	1.0	µg/L	10.0		95.5		70-130	0.736	25		
trans-1,4-Dichloro-2-butene	10.3	2.0	µg/L	10.0		103		70-130	2.95	25		
Dichlorodifluoromethane (Freon 12)	9.12	2.0	µg/L	10.0		91.2		40-160	1.09	25		†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.851	25		
1,2-Dichloroethane	9.46	1.0	µg/L	10.0		94.6		70-130	5.55	25		
1,1-Dichloroethylene	9.16	1.0	µg/L	10.0		91.6		70-130	6.65	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	3.47	25		
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106		70-130	3.44	25		
Dichlorofluoromethane (Freon 21)	8.76	1.0	µg/L	10.0		87.6		70-130	2.92	25		
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108		70-130	4.43	25		
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107		70-130	0.187	25		
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		40-130	3.36	25		†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105		70-130	1.80	25		
cis-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0		70-130	1.62	25		
trans-1,3-Dichloropropene	9.26	0.50	µg/L	10.0		92.6		70-130	2.35	25		
Diethyl Ether	8.98	2.0	µg/L	10.0		89.8		70-130	3.40	25		
Difluorochloromethane (Freon 22)	9.97	1.0	µg/L	10.0		99.7		70-130	2.48	25		
Diisopropyl Ether (DIPE)	9.24	0.50	µg/L	10.0		92.4		70-130	0.00	25		
1,4-Dioxane	96.4	50	µg/L	100		96.4		40-130	8.88	50		† ‡
Ethanol	73.5	50	µg/L	100		73.5		40-160	9.34	25		
Ethyl Acetate	10.6	10	µg/L	10.0		106		70-130	6.01	25		
Ethylbenzene	10.3	1.0	µg/L	10.0		103		70-130	3.44	25		
Hexachlorobutadiene	7.65	0.60	µg/L	10.0		76.5		70-130	1.43	25		
2-Hexanone (MBK)	88.0	10	µg/L	100		88.0		70-160	1.92	25		†
Iodomethane	147	20	µg/L	100		**147**	*	70-130	5.60	25	L-02, V-20	
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130	0.656	25		
p-Isopropyltoluene (p-Cymene)	9.17	1.0	µg/L	10.0		91.7		70-130	0.109	25		
Methyl Acetate	7.77	1.0	µg/L	10.0		77.7		70-130	2.04	25	V-05	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104		70-130	0.0960	25		
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103		70-130	3.06	25		
Methylene Chloride	9.41	5.0	µg/L	10.0		94.1		70-130	0.530	25		
4-Methyl-2-pentanone (MIBK)	88.9	10	µg/L	100		88.9		70-160	0.773	25		†
Naphthalene	6.15	2.0	µg/L	10.0		61.5		40-130	2.64	25	V-05	†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103		70-130	2.67	25		
Styrene	11.0	1.0	µg/L	10.0		110		70-130	2.12	25		
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115		70-130	2.24	25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130	1.17	25		
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111		70-130	7.38	25		
Tetrahydrofuran	9.02	10	µg/L	10.0		90.2		70-130	0.222	25	J	
Toluene	10.5	1.0	µg/L	10.0		105		70-130	2.91	25		
1,2,3-Trichlorobenzene	7.02	5.0	µg/L	10.0		70.2		70-130	2.60	25	V-05	
1,2,4-Trichlorobenzene	8.27	1.0	µg/L	10.0		82.7		70-130	0.363	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314258 - SW-846 5030B											
LCS Dup (B314258-BSD1)				Prepared & Analyzed: 08/01/22							
1,3,5-Trichlorobenzene	8.77	1.0	µg/L	10.0		87.7		70-130	0.114	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130	0.862	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130	5.46	25	
Trichloroethylene	11.0	1.0	µg/L	10.0		110		70-130	6.43	25	
Trichlorofluoromethane (Freon 11)	8.40	2.0	µg/L	10.0		84.0		70-130	2.12	25	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110		70-130	3.14	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117		70-130	5.57	25	
1,2,3-Trimethylbenzene	9.47	0.50	µg/L	10.0		94.7		70-130	2.30	25	
1,2,4-Trimethylbenzene	9.16	1.0	µg/L	10.0		91.6		70-130	1.32	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106		70-130	2.24	25	
Vinyl Acetate	94.1	20	µg/L	100		94.1		70-130	1.60	25	
Vinyl Chloride	9.35	2.0	µg/L	10.0		93.5		40-160	1.80	25	†
m+p Xylene	21.2	2.0	µg/L	20.0		106		70-130	1.55	25	
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130	0.00	25	
Surrogate: 1,2-Dichloroethane-d4	*19.4*		µg/L	25.0		77.7		70-130			
Surrogate: Toluene-d8	*23.9*		µg/L	25.0		95.4		70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		106		70-130			
Matrix Spike (B314258-MS1)		**Source: 22G1683-02**		Prepared & Analyzed: 08/01/22							
Acetone	164	50	µg/L	100	77.9	85.8		70-130			
Acrylonitrile	11.7	5.0	µg/L	10.0	ND	117		70-130			
tert-Amyl Methyl Ether (TAME)	10.9	0.50	µg/L	10.0	ND	109		70-130			
Benzene	11.3	1.0	µg/L	10.0	ND	113		70-130			
Bromobenzene	10.2	1.0	µg/L	10.0	ND	102		70-130			
Bromochloromethane	14.0	1.0	µg/L	10.0	ND	**140**	*	70-130			MS-15, V-20
Bromodichloromethane	10.4	0.50	µg/L	10.0	ND	104		70-130			
Bromoform	9.36	1.0	µg/L	10.0	ND	93.6		70-130			
Bromomethane	14.9	2.0	µg/L	10.0	ND	**149**	*	70-130			MS-15, V-20
2-Butanone (MEK)	89.8	20	µg/L	100	ND	89.8		70-130			
tert-Butyl Alcohol (TBA)	96.6	20	µg/L	100	ND	96.6		70-130			
n-Butylbenzene	8.51	1.0	µg/L	10.0	ND	85.1		70-130			
sec-Butylbenzene	9.18	1.0	µg/L	10.0	ND	91.8		70-130			
tert-Butylbenzene	9.75	1.0	µg/L	10.0	ND	97.5		70-130			
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0	ND	107		70-130			
Carbon Disulfide	107	5.0	µg/L	100	ND	107		70-130			
Carbon Tetrachloride	11.8	5.0	µg/L	10.0	ND	118		70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0	ND	108		70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0	ND	106		70-130			
Chloroethane	13.0	2.0	µg/L	10.0	ND	130		70-130			
Chloroform	11.6	2.0	µg/L	10.0	ND	116		70-130			
Chloromethane	4.61	2.0	µg/L	10.0	ND	**46.1**	*	70-130			L-04, MS-09, V-05, V-34
2-Chlorotoluene	10.4	1.0	µg/L	10.0	ND	104		70-130			
4-Chlorotoluene	10.5	1.0	µg/L	10.0	ND	105		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.22	5.0	µg/L	10.0	ND	**62.2**	*	70-130			L-04, MS-09, V-05
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0	ND	106		70-130			
Dibromomethane	10.3	1.0	µg/L	10.0	ND	103		70-130			
1,2-Dichlorobenzene	9.34	1.0	µg/L	10.0	ND	93.4		70-130			
1,3-Dichlorobenzene	9.56	1.0	µg/L	10.0	ND	95.6		70-130			
1,4-Dichlorobenzene	9.50	1.0	µg/L	10.0	ND	95.0		70-130			
trans-1,4-Dichloro-2-butene	8.60	2.0	µg/L	10.0	ND	86.0		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314258 - SW-846 5030B											
Matrix Spike (B314258-MS1)	**Source: 22G1683-02**			Prepared & Analyzed: 08/01/22							
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0	ND	105		70-130			
1,1-Dichloroethane	11.8	1.0	µg/L	10.0	ND	118		70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130			
1,1-Dichloroethylene	11.7	1.0	µg/L	10.0	ND	117		70-130			
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0	ND	116		70-130			
trans-1,2-Dichloroethylene	12.0	1.0	µg/L	10.0	ND	120		70-130			
1,2-Dichloropropane	10.9	1.0	µg/L	10.0	ND	109		70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0	ND	103		70-130			
2,2-Dichloropropane	9.29	1.0	µg/L	10.0	ND	92.9		70-130			
1,1-Dichloropropene	12.1	2.0	µg/L	10.0	ND	121		70-130			
cis-1,3-Dichloropropene	9.05	0.50	µg/L	10.0	ND	90.5		70-130			
trans-1,3-Dichloropropene	8.62	0.50	µg/L	10.0	ND	86.2		70-130			
Diethyl Ether	10.7	2.0	µg/L	10.0	ND	107		70-130			
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0	ND	105		70-130			
1,4-Dioxane	106	50	µg/L	100	ND	106		70-130			
Ethylbenzene	10.5	1.0	µg/L	10.0	ND	105		70-130			
Hexachlorobutadiene	7.78	0.60	µg/L	10.0	ND	77.8		70-130			
2-Hexanone (MBK)	86.9	10	µg/L	100	ND	86.9		70-130			
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0	ND	106		70-130			
p-Isopropyltoluene (p-Cymene)	9.41	1.0	µg/L	10.0	ND	94.1		70-130			
Methyl Acetate	8.21	1.0	µg/L	10.0	ND	82.1		70-130			V-05
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0	ND	109		70-130			
Methyl Cyclohexane	10.4	1.0	µg/L	10.0	ND	104		70-130			
Methylene Chloride	10.9	5.0	µg/L	10.0	ND	109		70-130			
4-Methyl-2-pentanone (MIBK)	91.6	10	µg/L	100	ND	91.6		70-130			
Naphthalene	5.98	2.0	µg/L	10.0	ND	**59.8**	*	70-130			MS-07A, V-05
n-Propylbenzene	10.5	1.0	µg/L	10.0	ND	105		70-130			
Styrene	10.6	1.0	µg/L	10.0	ND	106		70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0	ND	114		70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0	ND	100		70-130			
Tetrachloroethylene	11.5	1.0	µg/L	10.0	ND	115		70-130			
Tetrahydrofuran	10.4	10	µg/L	10.0	ND	104		70-130			
Toluene	11.2	1.0	µg/L	10.0	ND	112		70-130			
1,2,3-Trichlorobenzene	6.53	5.0	µg/L	10.0	ND	**65.3**	*	70-130			MS-09, V-05
1,2,4-Trichlorobenzene	7.67	1.0	µg/L	10.0	ND	76.7		70-130			
1,3,5-Trichlorobenzene	8.35	1.0	µg/L	10.0	ND	83.5		70-130			
1,1,1-Trichloroethane	11.7	1.0	µg/L	10.0	ND	117		70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0	ND	108		70-130			
Trichloroethylene	11.8	1.0	µg/L	10.0	ND	118		70-130			
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0	ND	113		70-130			
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0	ND	105		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.0	1.0	µg/L	10.0	ND	**140**	*	70-130			MS-15
1,2,4-Trimethylbenzene	9.20	1.0	µg/L	10.0	ND	92.0		70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0	ND	108		70-130			
Vinyl Chloride	11.8	2.0	µg/L	10.0	ND	118		70-130			
m+p Xylene	21.3	2.0	µg/L	20.0	ND	106		70-130			
o-Xylene	10.5	1.0	µg/L	10.0	ND	105		70-130			
Surrogate: 1,2-Dichloroethane-d4	*21.8*		µg/L	25.0		87.2		70-130			
Surrogate: Toluene-d8	*24.1*		µg/L	25.0		96.5		70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		105		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314258 - SW-846 5030B											
Matrix Spike Dup (B314258-MSD1)	**Source: 22G1683-02**			Prepared & Analyzed: 08/01/22							
Acetone	154	50	µg/L	100	77.9	76.0		70-130	6.20	30	
Acrylonitrile	10.8	5.0	µg/L	10.0	ND	108		70-130	7.55	30	
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0	ND	107		70-130	1.48	30	
Benzene	11.6	1.0	µg/L	10.0	ND	116		70-130	2.89	30	
Bromobenzene	10.3	1.0	µg/L	10.0	ND	103		70-130	1.76	30	
Bromochloromethane	13.9	1.0	µg/L	10.0	ND	**139**	*	70-130	1.08	30	MS-15, V-20
Bromodichloromethane	10.0	0.50	µg/L	10.0	ND	100		70-130	3.14	30	
Bromoform	9.33	1.0	µg/L	10.0	ND	93.3		70-130	0.321	30	
Bromomethane	15.5	2.0	µg/L	10.0	ND	**155**	*	70-130	4.15	30	MS-15, V-20
2-Butanone (MEK)	86.9	20	µg/L	100	ND	86.9		70-130	3.31	30	
tert-Butyl Alcohol (TBA)	90.7	20	µg/L	100	ND	90.7		70-130	6.21	30	
n-Butylbenzene	8.54	1.0	µg/L	10.0	ND	85.4		70-130	0.352	30	
sec-Butylbenzene	9.24	1.0	µg/L	10.0	ND	92.4		70-130	0.651	30	
tert-Butylbenzene	9.99	1.0	µg/L	10.0	ND	99.9		70-130	2.43	30	
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0	ND	104		70-130	3.13	30	
Carbon Disulfide	109	5.0	µg/L	100	ND	109		70-130	2.15	30	
Carbon Tetrachloride	12.1	5.0	µg/L	10.0	ND	121		70-130	2.34	30	
Chlorobenzene	11.0	1.0	µg/L	10.0	ND	110		70-130	1.92	30	
Chlorodibromomethane	10.4	0.50	µg/L	10.0	ND	104		70-130	1.91	30	
Chloroethane	12.8	2.0	µg/L	10.0	ND	128		70-130	0.930	30	
Chloroform	11.8	2.0	µg/L	10.0	ND	118		70-130	1.19	30	
Chloromethane	4.77	2.0	µg/L	10.0	ND	**47.7**	*	70-130	3.41	30	MS-09, V-05, V-34, L-04
2-Chlorotoluene	10.6	1.0	µg/L	10.0	ND	106		70-130	2.57	30	
4-Chlorotoluene	10.7	1.0	µg/L	10.0	ND	107		70-130	1.32	30	
1,2-Dibromo-3-chloropropane (DBCP)	6.59	5.0	µg/L	10.0	ND	**65.9**	*	70-130	5.78	30	L-04, MS-09, V-05
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0	ND	106		70-130	0.0946	30	
Dibromomethane	10.9	1.0	µg/L	10.0	ND	109		70-130	5.36	30	
1,2-Dichlorobenzene	9.33	1.0	µg/L	10.0	ND	93.3		70-130	0.107	30	
1,3-Dichlorobenzene	9.63	1.0	µg/L	10.0	ND	96.3		70-130	0.730	30	
1,4-Dichlorobenzene	9.66	1.0	µg/L	10.0	ND	96.6		70-130	1.67	30	
trans-1,4-Dichloro-2-butene	8.32	2.0	µg/L	10.0	ND	83.2		70-130	3.31	30	
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.0	ND	103		70-130	2.41	30	
1,1-Dichloroethane	11.8	1.0	µg/L	10.0	ND	118		70-130	0.425	30	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0	ND	101		70-130	1.18	30	
1,1-Dichloroethylene	11.8	1.0	µg/L	10.0	ND	118		70-130	0.681	30	
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0	ND	118		70-130	1.46	30	
trans-1,2-Dichloroethylene	12.5	1.0	µg/L	10.0	ND	125		70-130	3.99	30	
1,2-Dichloropropane	11.1	1.0	µg/L	10.0	ND	111		70-130	2.00	30	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0	ND	105		70-130	1.73	30	
2,2-Dichloropropane	9.09	1.0	µg/L	10.0	ND	90.9		70-130	2.18	30	
1,1-Dichloropropene	12.2	2.0	µg/L	10.0	ND	122		70-130	0.329	30	
cis-1,3-Dichloropropene	8.94	0.50	µg/L	10.0	ND	89.4		70-130	1.22	30	
trans-1,3-Dichloropropene	8.51	0.50	µg/L	10.0	ND	85.1		70-130	1.28	30	
Diethyl Ether	10.4	2.0	µg/L	10.0	ND	104		70-130	2.85	30	
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0	ND	106		70-130	0.664	30	
1,4-Dioxane	94.0	50	µg/L	100	ND	94.0		70-130	12.3	30	
Ethylbenzene	10.7	1.0	µg/L	10.0	ND	107		70-130	1.89	30	
Hexachlorobutadiene	7.83	0.60	µg/L	10.0	ND	78.3		70-130	0.641	30	
2-Hexanone (MBK)	84.8	10	µg/L	100	ND	84.8		70-130	2.43	30	
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0	ND	109		70-130	2.70	30	
p-Isopropyltoluene (p-Cymene)	9.59	1.0	µg/L	10.0	ND	95.9		70-130	1.89	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314258 - SW-846 5030B											
Matrix Spike Dup (B314258-MSD1)	**Source: 22G1683-02**			Prepared & Analyzed: 08/01/22							
Methyl Acetate	7.83	1.0	µg/L	10.0	ND	78.3		70-130	4.74	30	V-05
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0	ND	109		70-130	0.642	30	
Methyl Cyclohexane	10.8	1.0	µg/L	10.0	ND	108		70-130	3.69	30	
Methylene Chloride	10.7	5.0	µg/L	10.0	ND	107		70-130	1.95	30	
4-Methyl-2-pentanone (MIBK)	87.5	10	µg/L	100	ND	87.5		70-130	4.56	30	
Naphthalene	5.98	2.0	µg/L	10.0	ND	**59.8**	*	70-130	0.00	30	MS-07A, V-05
n-Propylbenzene	10.6	1.0	µg/L	10.0	ND	106		70-130	1.61	30	
Styrene	10.7	1.0	µg/L	10.0	ND	107		70-130	1.41	30	
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0	ND	116		70-130	1.91	30	
1,1,2,2-Tetrachloroethane	9.93	0.50	µg/L	10.0	ND	99.3		70-130	0.702	30	
Tetrachloroethylene	12.2	1.0	µg/L	10.0	ND	122		70-130	6.07	30	
Tetrahydrofuran	9.73	10	µg/L	10.0	ND	97.3		70-130	6.75	30	J
Toluene	11.1	1.0	µg/L	10.0	ND	111		70-130	0.898	30	
1,2,3-Trichlorobenzene	6.56	5.0	µg/L	10.0	ND	**65.6**	*	70-130	0.458	30	MS-09, V-05
1,2,4-Trichlorobenzene	7.94	1.0	µg/L	10.0	ND	79.4		70-130	3.46	30	
1,3,5-Trichlorobenzene	8.60	1.0	µg/L	10.0	ND	86.0		70-130	2.95	30	
1,1,1-Trichloroethane	12.2	1.0	µg/L	10.0	ND	122		70-130	4.10	30	
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0	ND	108		70-130	0.555	30	
Trichloroethylene	11.9	1.0	µg/L	10.0	ND	119		70-130	1.02	30	
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0	ND	105		70-130	7.98	30	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0	ND	110		70-130	4.28	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.0	1.0	µg/L	10.0	ND	**140**	*	70-130	0.0715	30	MS-15
1,2,4-Trimethylbenzene	9.33	1.0	µg/L	10.0	ND	93.3		70-130	1.40	30	
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0	ND	108		70-130	0.278	30	
Vinyl Chloride	11.7	2.0	µg/L	10.0	ND	117		70-130	0.936	30	
m+p Xylene	22.1	2.0	µg/L	20.0	ND	110		70-130	3.69	20	
o-Xylene	10.8	1.0	µg/L	10.0	ND	108		70-130	2.82	30	
Surrogate: 1,2-Dichloroethane-d4	*21.6*		µg/L	25.0		86.2		70-130			
Surrogate: Toluene-d8	*24.0*		µg/L	25.0		96.1		70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		105		70-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314404 - SW-846 3510C										
Blank (B314404-BLK1)				Prepared: 08/03/22 Analyzed: 08/05/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.30*		µg/L	10.0		23.0	15-110			
LCS (B314404-BS1)				Prepared: 08/03/22 Analyzed: 08/05/22						
1,4-Dioxane	9.96	0.20	µg/L	10.0		99.6	40-140			
Surrogate: 1,4-Dioxane-d8	*2.41*		µg/L	10.0		24.1	15-110			
LCS Dup (B314404-BSD1)				Prepared: 08/03/22 Analyzed: 08/05/22						
1,4-Dioxane	11.1	0.20	µg/L	10.0		111	40-140	11.1	30	
Surrogate: 1,4-Dioxane-d8	*2.16*		µg/L	10.0		21.6	15-110			
Matrix Spike (B314404-MS1)	**Source: 22G1683-02**			Prepared: 08/03/22 Analyzed: 08/08/22						
1,4-Dioxane	12.0	0.19	µg/L	9.71	2.28	99.8	40-140			
Surrogate: 1,4-Dioxane-d8	*2.13*		µg/L	9.71		21.9	15-110			
Matrix Spike Dup (B314404-MSD1)	**Source: 22G1683-02**			Prepared: 08/03/22 Analyzed: 08/08/22						
1,4-Dioxane	12.2	0.19	µg/L	9.52	2.28	104	40-140	1.96	20	
Surrogate: 1,4-Dioxane-d8	*2.08*		µg/L	9.52		21.9	15-110			
Batch B314487 - SW-846 3510C										
Blank (B314487-BLK1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*1.59*		µg/L	10.0		15.9	15-110			
LCS (B314487-BS1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	10.2	0.20	µg/L	10.0		102	40-140			
Surrogate: 1,4-Dioxane-d8	*2.16*		µg/L	10.0		21.6	15-110			
LCS Dup (B314487-BSD1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140	4.41	30	
Surrogate: 1,4-Dioxane-d8	*2.19*		µg/L	10.0		21.9	15-110			
Batch B314787 - SW-846 3510C										
Blank (B314787-BLK1)				Prepared: 08/09/22 Analyzed: 08/10/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.57*		µg/L	10.0		25.7	15-110			
LCS (B314787-BS1)				Prepared: 08/09/22 Analyzed: 08/10/22						
1,4-Dioxane	10.3	0.20	µg/L	10.0		103	40-140			
Surrogate: 1,4-Dioxane-d8	*2.40*		µg/L	10.0		24.0	15-110			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314787 - SW-846 3510C										
LCS Dup (B314787-BSD1)				Prepared: 08/09/22 Analyzed: 08/10/22						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140	2.76	30	
Surrogate: 1,4-Dioxane-d8	*2.35*		µg/L	10.0		23.5	15-110			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314278 - SW-846 3005A											
Blank (B314278-BLK1)				Prepared: 08/01/22 Analyzed: 08/03/22							
Calcium	ND	0.50	mg/L								
LCS (B314278-BS1)				Prepared: 08/01/22 Analyzed: 08/03/22							
Calcium	3.61	0.50	mg/L	4.00		90.4		80-120			
LCS Dup (B314278-BSD1)				Prepared: 08/01/22 Analyzed: 08/03/22							
Calcium	3.75	0.50	mg/L	4.00		93.8		80-120	3.74	20	
Batch B314518 - SW-846 3005A											
Blank (B314518-BLK1)				Prepared: 08/04/22 Analyzed: 08/13/22							
Calcium	ND	0.50	mg/L								
LCS (B314518-BS1)				Prepared: 08/04/22 Analyzed: 08/13/22							
Calcium	4.24	0.50	mg/L	4.00		106		80-120			
LCS Dup (B314518-BSD1)				Prepared: 08/04/22 Analyzed: 08/13/22							
Calcium	3.99	0.50	mg/L	4.00		99.8		80-120	6.11	20	
Matrix Spike (B314518-MS1)	**Source: 22G1683-02**			Prepared: 08/04/22 Analyzed: 08/13/22							
Calcium	353	0.50	mg/L	4.00	328	**621**	*	75-125			MS-19
Matrix Spike Dup (B314518-MSD1)	**Source: 22G1683-02**			Prepared: 08/04/22 Analyzed: 08/13/22							
Calcium	346	0.50	mg/L	4.00	328	**455**	*	75-125	1.90	20	MS-19

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314179 - EPA 300.0										
Blank (B314179-BLK1)				Prepared & Analyzed: 07/29/22						
Nitrate as N	ND	0.10	mg/L							
LCS (B314179-BS1)				Prepared & Analyzed: 07/29/22						
Nitrate as N	0.96	0.10	mg/L	1.00		96.2	90-110			
LCS Dup (B314179-BSD1)				Prepared & Analyzed: 07/29/22						
Nitrate as N	0.94	0.10	mg/L	1.00		93.9	90-110	2.40	20	
Batch B314280 - EPA 300.0										
Blank (B314280-BLK1)				Prepared & Analyzed: 07/29/22						
Sulfate	ND	1.0	mg/L							
LCS (B314280-BS1)				Prepared & Analyzed: 07/29/22						
Sulfate	11	1.0	mg/L	10.0		108	90-110			
LCS Dup (B314280-BSD1)				Prepared & Analyzed: 07/29/22						
Sulfate	11	1.0	mg/L	10.0		108	90-110	0.537	20	
Batch B314500 - SM21-23 2320B										
Blank (B314500-BLK1)				Prepared & Analyzed: 08/04/22						
Alkalinity	ND	1.0	mg/L							
LCS (B314500-BS1)				Prepared & Analyzed: 08/04/22						
Alkalinity	60	1.0	mg/L	61.2		98.0	85.8-110			
LCS Dup (B314500-BSD1)				Prepared & Analyzed: 08/04/22						
Alkalinity	61	1.0	mg/L	61.2		99.7	85.8-110	1.65	6.91	
Duplicate (B314500-DUP2)	**Source: 22G1683-02**			Prepared & Analyzed: 08/04/22						
Alkalinity	280	1.0	mg/L		270			2.17	11.5	
Matrix Spike (B314500-MS2)	**Source: 22G1683-02**			Prepared & Analyzed: 08/04/22						
Alkalinity	320	1.0	mg/L	50.0	270	92.0	81.4-115			
Batch B314512 - SM 21-23 5310B										
Blank (B314512-BLK1)				Prepared & Analyzed: 08/04/22						
Total Organic Carbon	ND	1.0	mg/L							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B314512 - SM 21-23 5310B											
LCS (B314512-BS1)				Prepared & Analyzed: 08/04/22							
Total Organic Carbon	10.2	1.0	mg/L	10.0		102		88.2-114			
LCS Dup (B314512-BSD1)				Prepared & Analyzed: 08/04/22							
Total Organic Carbon	10.4	1.0	mg/L	10.0		104		88.2-114	2.03	11.1	
Matrix Spike (B314512-MS2)	**Source: 22G1683-02**			Prepared & Analyzed: 08/04/22							
Total Organic Carbon	7.29	1.0	mg/L	10.0	2.14	51.5		10-164			
Matrix Spike Dup (B314512-MSD2)	**Source: 22G1683-02**			Prepared & Analyzed: 08/04/22							
Total Organic Carbon	7.33	1.0	mg/L	10.0	2.14	51.9		10-164	0.547	20	
Batch B314694 - SM 21-23 5310B											
Blank (B314694-BLK1)				Prepared & Analyzed: 08/08/22							
Total Organic Carbon	ND	1.0	mg/L								
LCS (B314694-BS1)				Prepared & Analyzed: 08/08/22							
Total Organic Carbon	9.58	1.0	mg/L	10.0		95.8		88.2-114			
LCS Dup (B314694-BSD1)				Prepared & Analyzed: 08/08/22							
Total Organic Carbon	10.3	1.0	mg/L	10.0		103		88.2-114	7.51	11.1	
Batch B314847 - EPA 300.0											
Blank (B314847-BLK1)				Prepared & Analyzed: 08/10/22							
Sulfate	ND	1.0	mg/L								
LCS (B314847-BS1)				Prepared & Analyzed: 08/10/22							
Sulfate	9.5	1.0	mg/L	10.0		94.8		90-110			
LCS Dup (B314847-BSD1)				Prepared & Analyzed: 08/10/22							
Sulfate	9.5	1.0	mg/L	10.0		94.7		90-110	0.134	20	
Duplicate (B314847-DUP1)	**Source: 22G1683-02**			Prepared & Analyzed: 08/10/22							
Sulfate	580	25	mg/L		580				0.111	20	
Matrix Spike (B314847-MS1)	**Source: 22G1683-02**			Prepared & Analyzed: 08/10/22							
Sulfate	660	25	mg/L	250	580	**31.8**	*	80-120			MS-07

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
S-10	Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
SM 21-23 5310B in Water	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
SM21-23 2320B in Water	
Alkalinity	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6010D in Water	
Calcium	CT,NH,NY,ME,VA,NC
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
SW-846 8270E in Water	
1,4-Dioxane	NY

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

Pace Analytical®

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https://www.pacelabs.com/

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1800 Elm Street SE
Minneapolis, MN 55414

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2261683

2 coolers

CHAIN OF CUSTODY RECORD (New York)

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

Company Name: Arcadis

Address: One Lincoln Center 110 West Fayette St. Syracuse

Phone: 315-442-8568

Project Name: Northern Circuits

Project Location: E. Syracuse

Project Number: 30053669

Project Manager: Chris Kassel

Pace Analytical Quote Name/Number:

Invoice Recipient: Chris Kassel Chris.Kassel@arcadis-us.com

Sampled By: Dan Deardo

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Chris.Kassel@arcadis-us.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOC 8260B	1,4 Dioxane 8270D SIM	Calcium, Iron, Manganese, Sodium 6010 Total	Nitrate + Sulfate	TOC	Alkalinity by SM2320B
1	MW-19D	7-28-22 1050			X	GW		X	X				
2	MW-19S	7-28-22 1145			X	GW		X	X	X	X	X	X
3	MW-20S	7-28-22 1405			X	GW		X	X	X	X	X	X
4	MW-20D	7-28-22 1525			X	GW		X	X	X	X	X	X
5	MW-11S	7-28-22 1447			X	GW				X	X	X	X
6	MW-12S	7-28-22 1607			X	GW				X	X	X	X
7	MW-17S	7-28-22 1645			X	GW		X	X				
8	DUP-072822	7-28-22			X	GW		X	X	X	X	X	X
9	TRIP BLANK	—	—	—	—	DI		X					

# of Containers	3	2	1	1	1	1
[2] Preservation Code	H	B	N	O	P	O
[3] Container Code	V	A	P	P	A	P

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) None
P = Phosphoric

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

Comments: Cat B Deliverable
MW-19S → MS + MSD
Compliance Monitoring

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7-28-22 1800
Received by: (signature) 3.4/5.5	Date/Time: 7/29 953
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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Table of Contents

[redacted]

FedEx® Tracking

DELIVERED

Friday

7/29/2022 at 9:53 am

Signed for by: R.PETRAITIS

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

Get Status Updates

TRACKING ID

276130999554

FROM
EAST LONGMEADOW, MA US

Label Created
7/28/2022 16:44

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
7/28/2022 17:54

IN TRANSIT
WINDSOR LOCKS, CT
7/29/2022 07:25

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/29/2022 07:33

DELIVERED
EAST LONGMEADOW, MA US

DELIVERED
7/29/2022 at 9:53 AM

View travel history

Manage Delivery

2 Piece Shipment

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Aquis

Received By LA Date 7/20/22 Time 9:53

How were the samples received? In Cooler 4 No Cooler ____ On Ice T No Ice ____

Direct From Sample F Ambient ____ Melted Ice ____

Were samples within Tempurature? Within 2-6°C T By Gun # 5 Actual Temp - 3.4|5.5

By Blank # ____ Actual Temp - ____

Was Custody Seal In tact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T splitting samples require F

Were trip blanks receive N On COC? F

Do All Samples Have the proper pH? N/A Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	16	1 Liter Plastic		16 oz Amb.	
HCL-	26	500 mL Amb.		500 mL Plastic	6	8oz Amb/Clear	
Meoh-		250 mL Amb.	6	250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

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August 17, 2022

Chris Kassel
NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209

Project Location: E. Syracuse, NY
Client Job Number:
Project Number: 734124
Laboratory Work Order Number: 22G1804

Enclosed are results of analyses for samples as received by the laboratory on July 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
4 Dwight Park Dr
Syracuse, NY 13209
ATTN: Chris Kassel

REPORT DATE: 8/17/2022

PURCHASE ORDER NUMBER: 142878

PROJECT NUMBER: 734124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G1804

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: E. Syracuse, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-18S	22G1804-01	Ground Water		SW-846 8260D	
				SW-846 8270E	
MW-6S	22G1804-02	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
MW-6D	22G1804-03	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
MW-16S	22G1804-04	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
MW-16D	22G1804-05	Ground Water		EPA 300.0	
				SM 21-23 5310B	
				SM21-23 2320B	
				SW-846 6010D	
				SW-846 8260D	
				SW-846 8270E	
Trip Blank	22G1804-06	Ground Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromochloromethane
B314338-BS1, B314338-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B314338-BSD1

1,2-Dibromo-3-chloropropane (DB
B314338-BS1

Bromomethane
B314338-BSD1

Chloroethane
B314338-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Acetone
B314338-BS1

Chloromethane
B314338-BS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1

Acetone
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1

Chloromethane
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22G1804-05[MW-16D]

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

1,2-Dibromo-3-chloropropane (DB
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

Acetone
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

Chloromethane
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

Hexachlorobutadiene
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

Naphthalene
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Trichloroethylene
B314338-BS1, B314338-BSD1, S074782-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromochloromethane
B314338-BS1, B314338-BSD1, S074782-CCV1

Bromomethane
B314338-BS1, B314338-BSD1, S074782-CCV1

Carbon Disulfide
B314338-BS1, B314338-BSD1, S074782-CCV1

Tetrachloroethylene
B314338-BS1, B314338-BSD1, S074782-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

Chloromethane
22G1804-01[MW-18S], 22G1804-04[MW-16S], 22G1804-05[MW-16D], 22G1804-06[Trip Blank], B314338-BLK1, B314338-BS1, B314338-BSD1, S074782-CCV1

SW-846 8270E

Qualifications:

E

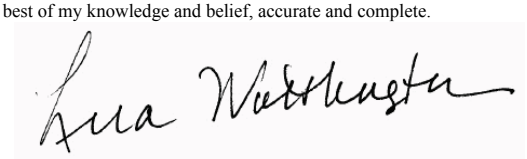
Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

1,4-Dioxane
22G1804-05[MW-16D]

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The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	6.0	50	2.0	µg/L	1	R-05, V-05, J	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	82.9	70-130		8/2/22 17:32
Toluene-d8	99.4	70-130		8/2/22 17:32
4-Bromofluorobenzene	102	70-130		8/2/22 17:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-18S | Sampled: 7/29/2022 08:55

Sample ID: 22G1804-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/8/22 23:55	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.8	15-110		8/8/22 23:55

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6S | Sampled: 7/29/2022 10:36

Sample ID: 22G1804-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	63	0.50	0.11	mg/L	1		SW-846 6010D	8/1/22	8/3/22 21:11	JLC

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6S | Sampled: 7/29/2022 10:36

Sample ID: 22G1804-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	240	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:02	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 17:12	IS
Sulfate	24	1.0	0.55	mg/L	1		EPA 300.0	7/30/22	7/30/22 17:12	IS
Total Organic Carbon	2.4	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 16:57	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6D | Sampled: 7/29/2022 09:21

Sample ID: 22G1804-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	89	0.50	0.11	mg/L	1		SW-846 6010D	8/1/22	8/3/22 21:16	JLC

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-6D | Sampled: 7/29/2022 09:21

Sample ID: 22G1804-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	270	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:38	DET
Nitrate as N	0.52	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 16:28	IS
Sulfate	58	5.0	2.7	mg/L	5		EPA 300.0	7/30/22	7/30/22 16:50	IS
Total Organic Carbon	1.7	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:12	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	R-05, V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloroethane	3.5	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloroethylene	1.2	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,1-Trichloroethane	0.75	1.0	0.17	µg/L	1	J	SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 17:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.0	70-130		8/2/22 17:59
Toluene-d8	99.9	70-130		8/2/22 17:59
4-Bromofluorobenzene	104	70-130		8/2/22 17:59

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	8/4/22	8/9/22 0:15	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	28.1	15-110		8/9/22 0:15	

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	130	0.50	0.11	mg/L	1		SW-846 6010D	8/5/22	8/16/22 14:05	QNW

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16S | Sampled: 7/29/2022 10:15

Sample ID: 22G1804-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	470	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:49	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 14:59	IS
Sulfate	13	1.0	0.55	mg/L	1		EPA 300.0	7/30/22	7/30/22 14:59	IS
Total Organic Carbon	2.5	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:33	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	76	500	20	µg/L	10	R-05, V-05, J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Acrylonitrile	ND	50	5.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Benzene	ND	10	2.0	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromochloromethane	ND	10	3.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromodichloromethane	ND	5.0	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromoform	ND	10	3.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Bromomethane	ND	50	15	µg/L	10	V-34	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Butanone (MEK)	ND	200	16	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butyl Alcohol (TBA)	ND	200	47	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
sec-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Carbon Disulfide	ND	50	14	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chlorobenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chlorodibromomethane	ND	5.0	2.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloroethane	15	20	3.2	µg/L	10	J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloroform	ND	20	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Chloromethane	ND	20	5.2	µg/L	10	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Chlorotoluene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
4-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.0	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Dibromomethane	ND	10	3.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3-Dichlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,4-Dichloro-2-butene	ND	20	16	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloroethane	590	10	1.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichloroethane	ND	10	3.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloroethylene	4.6	10	1.4	µg/L	10	R-05, J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
cis-1,2-Dichloroethylene	ND	10	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,2-Dichloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2-Dichloropropane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2,2-Dichloropropane	ND	10	3.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1-Dichloropropene	ND	20	1.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
trans-1,3-Dichloropropene	ND	5.0	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Diethyl Ether	ND	20	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,4-Dioxane	1200	500	210	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Ethylbenzene	ND	10	2.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Hexachlorobutadiene	ND	6.0	4.6	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
2-Hexanone (MBK)	ND	100	11	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Isopropylbenzene (Cumene)	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	0.97	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl Acetate	ND	10	4.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methyl Cyclohexane	ND	10	2.4	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Methylene Chloride	ND	50	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Naphthalene	ND	20	2.4	µg/L	10	V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
n-Propylbenzene	ND	10	0.86	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Styrene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Tetrachloroethylene	ND	10	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Tetrahydrofuran	ND	100	4.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,3-Trichlorobenzene	ND	50	3.0	µg/L	10	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,4-Trichlorobenzene	ND	10	2.5	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3,5-Trichlorobenzene	ND	10	2.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,1-Trichloroethane	ND	10	1.7	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Trichloroethylene	ND	10	1.9	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,3-Trichloropropane	ND	20	2.8	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,2,4-Trimethylbenzene	ND	10	2.0	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
1,3,5-Trimethylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
Vinyl Chloride	4.0	20	2.1	µg/L	10	J	SW-846 8260D	8/2/22	8/2/22 18:25	MFF
m+p Xylene	ND	20	4.6	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF
o-Xylene	ND	10	2.3	µg/L	10		SW-846 8260D	8/2/22	8/2/22 18:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	81.8	70-130		8/2/22 18:25
Toluene-d8	99.0	70-130		8/2/22 18:25
4-Bromofluorobenzene	104	70-130		8/2/22 18:25

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	870	0.19	0.031	µg/L	1	E	SW-846 8270E	8/4/22	8/9/22 0:34	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	30.1	15-110		8/9/22 0:34

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Calcium	250	0.50	0.11	mg/L	1		SW-846 6010D	8/5/22	8/16/22 14:10	QNW

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: MW-16D | Sampled: 7/29/2022 11:30

Sample ID: 22G1804-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	420	1.0	0.65	mg/L	1		SM21-23 2320B	8/4/22	8/4/22 13:59	DET
Nitrate as N	ND	0.10	0.042	mg/L	1		EPA 300.0	7/30/22	7/30/22 15:43	IS
Sulfate	450	25	14	mg/L	25		EPA 300.0	8/12/22	8/12/22 16:12	IS
Total Organic Carbon	4.4	1.0	0.54	mg/L	1		SM 21-23 5310B	8/8/22	8/8/22 17:52	IS

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: Trip Blank | Sampled: 7/29/2022 00:00

Sample ID: 22G1804-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	R-05, V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Bromomethane	ND	5.0	1.5	µg/L	1	V-34	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Chloromethane	ND	2.0	0.52	µg/L	1	R-05, V-05, V-34	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1	R-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF

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Project Location: E. Syracuse, NY | Sample Description: | Work Order: 22G1804

Date Received: 7/30/2022

Field Sample #: Trip Blank | Sampled: 7/29/2022 00:00

Sample ID: 22G1804-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Naphthalene	ND	2.0	0.24	µg/L	1	V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1	L-04, V-05	SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	8/2/22	8/2/22 14:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	83.0	70-130		8/2/22 14:28
Toluene-d8	101	70-130		8/2/22 14:28
4-Bromofluorobenzene	107	70-130		8/2/22 14:28

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Sample Extraction Data

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-02 [MW-6S]	B314222	10.0	10.0	07/30/22
22G1804-03 [MW-6D]	B314222	10.0	10.0	07/30/22
22G1804-03 [MW-6D]	B314222	10.0	10.0	07/30/22
22G1804-04 [MW-16S]	B314222	10.0	10.0	07/30/22
22G1804-05 [MW-16D]	B314222	10.0	10.0	07/30/22

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-05 [MW-16D]	B315037	10.0	10.0	08/12/22

SM 21-23 5310B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-02 [MW-6S]	B314694	50.0	50.0	08/08/22
22G1804-03 [MW-6D]	B314694	50.0	50.0	08/08/22
22G1804-04 [MW-16S]	B314694	50.0	50.0	08/08/22
22G1804-05 [MW-16D]	B314694	50.0	50.0	08/08/22

SM21-23 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-02 [MW-6S]	B314500	100	100	08/04/22
22G1804-03 [MW-6D]	B314500	100	100	08/04/22
22G1804-04 [MW-16S]	B314500	100	100	08/04/22
22G1804-05 [MW-16D]	B314500	100	100	08/04/22

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-02 [MW-6S]	B314278	50.0	50.0	08/01/22
22G1804-03 [MW-6D]	B314278	50.0	50.0	08/01/22

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-04 [MW-16S]	B314606	50.0	50.0	08/05/22
22G1804-05 [MW-16D]	B314606	50.0	50.0	08/05/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-01 [MW-18S]	B314338	5	5.00	08/02/22
22G1804-04 [MW-16S]	B314338	5	5.00	08/02/22
22G1804-05 [MW-16D]	B314338	0.5	5.00	08/02/22
22G1804-06 [Trip Blank]	B314338	5	5.00	08/02/22

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1804-01 [MW-18S]	B314487	1040	1.00	08/04/22
22G1804-04 [MW-16S]	B314487	1050	1.00	08/04/22
22G1804-05 [MW-16D]	B314487	1040	1.00	08/04/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314338 - SW-846 5030B										
Blank (B314338-BLK1)				Prepared & Analyzed: 08/02/22						
Acetone	ND	50	µg/L							R-05, V-05
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-34
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							R-05, V-05, V-34
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							R-05
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							V-05
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314338 - SW-846 5030B												
Blank (B314338-BLK1)				Prepared & Analyzed: 08/02/22								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L								V-05	
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L								L-04, V-05	
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*22.1*		µg/L	25.0		88.3		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		99.9		70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		101		70-130				
LCS (B314338-BS1)				Prepared & Analyzed: 08/02/22								
Acetone	68.6	50	µg/L	100		**68.6**	*	70-160			L-07A, R-05, V-05	†
Acrylonitrile	10.8	5.0	µg/L	10.0		108		70-130				
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108		70-130				
Benzene	11.1	1.0	µg/L	10.0		111		70-130				
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromochloromethane	13.3	1.0	µg/L	10.0		**133**	*	70-130			L-02, V-20	
Bromodichloromethane	10.9	0.50	µg/L	10.0		109		70-130				
Bromoform	9.68	1.0	µg/L	10.0		96.8		70-130				
Bromomethane	15.3	2.0	µg/L	10.0		153		40-160			V-20, V-34	†
2-Butanone (MEK)	81.6	20	µg/L	100		81.6		40-160				†
tert-Butyl Alcohol (TBA)	85.7	20	µg/L	100		85.7		40-160				†
n-Butylbenzene	8.06	1.0	µg/L	10.0		80.6		70-130				
sec-Butylbenzene	8.63	1.0	µg/L	10.0		86.3		70-130				
tert-Butylbenzene	9.62	1.0	µg/L	10.0		96.2		70-130				
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103		70-130				
Carbon Disulfide	115	5.0	µg/L	100		115		70-130			V-20	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102		70-130				
Chlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110		70-130				
Chloroethane	10.7	2.0	µg/L	10.0		107		70-130				
Chloroform	10.9	2.0	µg/L	10.0		109		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314338 - SW-846 5030B												
LCS (B314338-BS1)				Prepared & Analyzed: 08/02/22								
Chloromethane	3.96	2.0	µg/L	10.0		**39.6**	*	40-160			L-07A, R-05, V-05, V-34	†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130				
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	6.92	5.0	µg/L	10.0		**69.2**	*	70-130			L-07, V-05	
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118		70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dichlorobenzene	9.17	1.0	µg/L	10.0		91.7		70-130				
1,3-Dichlorobenzene	9.55	1.0	µg/L	10.0		95.5		70-130				
1,4-Dichlorobenzene	9.32	1.0	µg/L	10.0		93.2		70-130				
trans-1,4-Dichloro-2-butene	8.20	2.0	µg/L	10.0		82.0		70-130				
Dichlorodifluoromethane (Freon 12)	9.17	2.0	µg/L	10.0		91.7		40-160				†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104		70-130				
1,1-Dichloroethylene	9.43	1.0	µg/L	10.0		94.3		70-130			R-05	
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115		70-130				
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130				
2,2-Dichloropropane	9.69	1.0	µg/L	10.0		96.9		40-130				†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111		70-130				
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130				
trans-1,3-Dichloropropene	9.66	0.50	µg/L	10.0		96.6		70-130				
Diethyl Ether	9.12	2.0	µg/L	10.0		91.2		70-130				
Diisopropyl Ether (DIPE)	9.53	0.50	µg/L	10.0		95.3		70-130				
1,4-Dioxane	114	50	µg/L	100		114		40-130				†
Ethylbenzene	9.94	1.0	µg/L	10.0		99.4		70-130				
Hexachlorobutadiene	7.81	0.60	µg/L	10.0		78.1		70-130			V-05	
2-Hexanone (MBK)	87.8	10	µg/L	100		87.8		70-160				†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104		70-130				
p-Isopropyltoluene (p-Cymene)	9.50	1.0	µg/L	10.0		95.0		70-130				
Methyl Acetate	8.36	1.0	µg/L	10.0		83.6		70-130				
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130				
Methyl Cyclohexane	11.4	1.0	µg/L	10.0		114		70-130				
Methylene Chloride	9.94	5.0	µg/L	10.0		99.4		70-130				
4-Methyl-2-pentanone (MIBK)	91.5	10	µg/L	100		91.5		70-160				†
Naphthalene	6.33	2.0	µg/L	10.0		63.3		40-130			V-05	†
n-Propylbenzene	9.76	1.0	µg/L	10.0		97.6		70-130				
Styrene	10.4	1.0	µg/L	10.0		104		70-130				
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130				
Tetrachloroethylene	12.0	1.0	µg/L	10.0		120		70-130			V-20	
Tetrahydrofuran	9.38	10	µg/L	10.0		93.8		70-130			J	
Toluene	10.9	1.0	µg/L	10.0		109		70-130				
1,2,3-Trichlorobenzene	6.90	5.0	µg/L	10.0		**69.0**	*	70-130			L-04, V-05	
1,2,4-Trichlorobenzene	8.24	1.0	µg/L	10.0		82.4		70-130				
1,3,5-Trichlorobenzene	8.56	1.0	µg/L	10.0		85.6		70-130				
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119		70-130				
Trichloroethylene	11.8	1.0	µg/L	10.0		118		70-130			V-06	
Trichlorofluoromethane (Freon 11)	9.23	2.0	µg/L	10.0		92.3		70-130				
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B314338 - SW-846 5030B													
LCS (B314338-BS1)				Prepared & Analyzed: 08/02/22									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.0		114		70-130					
1,2,4-Trimethylbenzene	8.95	1.0	µg/L	10.0		89.5		70-130					
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130					
Vinyl Chloride	10.0	2.0	µg/L	10.0		100		40-160					†
m+p Xylene	20.4	2.0	µg/L	20.0		102		70-130					
o-Xylene	9.75	1.0	µg/L	10.0		97.5		70-130					
Surrogate: 1,2-Dichloroethane-d4	*19.0*		µg/L	25.0		76.1		70-130					
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130					
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		105		70-130					
LCS Dup (B314338-BSD1)				Prepared & Analyzed: 08/02/22									
Acetone	96.1	50	µg/L	100		96.1		70-160	**33.3**	*	25	R-05, V-05	†
Acrylonitrile	12.8	5.0	µg/L	10.0		128		70-130	17.3		25		
tert-Amyl Methyl Ether (TAME)	11.9	0.50	µg/L	10.0		119		70-130	9.44		25		
Benzene	12.1	1.0	µg/L	10.0		121		70-130	8.26		25		
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130	0.00		25		
Bromochloromethane	14.1	1.0	µg/L	10.0		**141**	*	70-130	5.90		25	L-02, V-20	
Bromodichloromethane	11.3	0.50	µg/L	10.0		113		70-130	3.42		25		
Bromoform	9.05	1.0	µg/L	10.0		90.5		70-130	6.73		25		
Bromomethane	19.1	2.0	µg/L	10.0		**191**	*	40-160	21.9		25	L-07, V-20, V-34	†
2-Butanone (MEK)	101	20	µg/L	100		101		40-160	21.6		25		†
tert-Butyl Alcohol (TBA)	103	20	µg/L	100		103		40-160	18.4		25		†
n-Butylbenzene	8.38	1.0	µg/L	10.0		83.8		70-130	3.89		25		
sec-Butylbenzene	8.86	1.0	µg/L	10.0		88.6		70-130	2.63		25		
tert-Butylbenzene	10.0	1.0	µg/L	10.0		100		70-130	4.17		25		
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116		70-130	11.4		25		
Carbon Disulfide	127	5.0	µg/L	100		127		70-130	9.49		25	V-20	
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118		70-130	14.3		25		
Chlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	3.44		25		
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110		70-130	0.182		25		
Chloroethane	13.6	2.0	µg/L	10.0		**136**	*	70-130	24.2		25	L-07	
Chloroform	12.3	2.0	µg/L	10.0		123		70-130	12.8		25		
Chloromethane	5.14	2.0	µg/L	10.0		51.4		40-160	**25.9**	*	25	R-05, V-05, V-34	†
2-Chlorotoluene	9.95	1.0	µg/L	10.0		99.5		70-130	1.00		25		
4-Chlorotoluene	9.97	1.0	µg/L	10.0		99.7		70-130	0.600		25		
1,2-Dibromo-3-chloropropane (DBCP)	7.85	5.0	µg/L	10.0		78.5		70-130	12.6		25	V-05	
1,2-Dibromoethane (EDB)	12.3	0.50	µg/L	10.0		123		70-130	4.15		25		
Dibromomethane	11.5	1.0	µg/L	10.0		115		70-130	4.72		25		
1,2-Dichlorobenzene	9.31	1.0	µg/L	10.0		93.1		70-130	1.52		25		
1,3-Dichlorobenzene	9.65	1.0	µg/L	10.0		96.5		70-130	1.04		25		
1,4-Dichlorobenzene	9.52	1.0	µg/L	10.0		95.2		70-130	2.12		25		
trans-1,4-Dichloro-2-butene	8.93	2.0	µg/L	10.0		89.3		70-130	8.52		25		
Dichlorodifluoromethane (Freon 12)	10.7	2.0	µg/L	10.0		107		40-160	15.6		25		†
1,1-Dichloroethane	12.3	1.0	µg/L	10.0		123		70-130	11.2		25		
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112		70-130	7.23		25		
1,1-Dichloroethylene	12.4	1.0	µg/L	10.0		124		70-130	**27.1**	*	25	R-05	
cis-1,2-Dichloroethylene	12.2	1.0	µg/L	10.0		122		70-130	12.1		25		
trans-1,2-Dichloroethylene	12.9	1.0	µg/L	10.0		129		70-130	13.8		25		
1,2-Dichloropropane	11.7	1.0	µg/L	10.0		117		70-130	1.55		25		
1,3-Dichloropropane	11.9	0.50	µg/L	10.0		119		70-130	2.39		25		
2,2-Dichloropropane	11.6	1.0	µg/L	10.0		116		40-130	18.4		25		†
1,1-Dichloropropene	12.5	2.0	µg/L	10.0		125		70-130	11.9		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B314338 - SW-846 5030B												
LCS Dup (B314338-BSD1)				Prepared & Analyzed: 08/02/22								
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	2.66	25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130	4.85	25		
Diethyl Ether	11.6	2.0	µg/L	10.0		116		70-130	24.1	25		
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114		70-130	18.2	25		
1,4-Dioxane	106	50	µg/L	100		106		40-130	7.07	50		† ‡
Ethylbenzene	9.94	1.0	µg/L	10.0		99.4		70-130	0.00	25		
Hexachlorobutadiene	7.65	0.60	µg/L	10.0		76.5		70-130	2.07	25	V-05	
2-Hexanone (MBK)	100	10	µg/L	100		100		70-160	13.2	25		†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100		70-130	3.34	25		
p-Isopropyltoluene (p-Cymene)	9.61	1.0	µg/L	10.0		96.1		70-130	1.15	25		
Methyl Acetate	10.2	1.0	µg/L	10.0		102		70-130	20.3	25		
Methyl tert-Butyl Ether (MTBE)	12.0	1.0	µg/L	10.0		120		70-130	11.7	25		
Methyl Cyclohexane	11.5	1.0	µg/L	10.0		115		70-130	1.31	25		
Methylene Chloride	11.9	5.0	µg/L	10.0		119		70-130	17.7	25		
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105		70-160	13.4	25		†
Naphthalene	6.63	2.0	µg/L	10.0		66.3		40-130	4.63	25	V-05	†
n-Propylbenzene	9.80	1.0	µg/L	10.0		98.0		70-130	0.409	25		
Styrene	10.3	1.0	µg/L	10.0		103		70-130	0.774	25		
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108		70-130	1.68	25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130	0.0966	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118		70-130	1.85	25	V-20	
Tetrahydrofuran	11.0	10	µg/L	10.0		110		70-130	15.6	25		
Toluene	10.9	1.0	µg/L	10.0		109		70-130	0.00	25		
1,2,3-Trichlorobenzene	6.75	5.0	µg/L	10.0		**67.5**	*	70-130	2.20	25	L-04, V-05	
1,2,4-Trichlorobenzene	8.04	1.0	µg/L	10.0		80.4		70-130	2.46	25		
1,3,5-Trichlorobenzene	8.35	1.0	µg/L	10.0		83.5		70-130	2.48	25		
1,1,1-Trichloroethane	11.9	1.0	µg/L	10.0		119		70-130	12.4	25		
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.0		117		70-130	1.52	25		
Trichloroethylene	12.5	1.0	µg/L	10.0		125		70-130	5.53	25	V-06	
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105		70-130	13.2	25		
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110		70-130	1.28	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.5	1.0	µg/L	10.0		**135**	*	70-130	17.3	25	L-07	
1,2,4-Trimethylbenzene	9.25	1.0	µg/L	10.0		92.5		70-130	3.30	25		
1,3,5-Trimethylbenzene	9.93	1.0	µg/L	10.0		99.3		70-130	2.88	25		
Vinyl Chloride	12.5	2.0	µg/L	10.0		125		40-160	21.8	25		†
m+p Xylene	20.2	2.0	µg/L	20.0		101		70-130	0.493	25		
o-Xylene	9.95	1.0	µg/L	10.0		99.5		70-130	2.03	25		
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.0		89.7		70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		105		70-130				

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314487 - SW-846 3510C										
Blank (B314487-BLK1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*1.59*		µg/L	10.0		15.9	15-110			
LCS (B314487-BS1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	10.2	0.20	µg/L	10.0		102	40-140			
Surrogate: 1,4-Dioxane-d8	*2.16*		µg/L	10.0		21.6	15-110			
LCS Dup (B314487-BSD1)				Prepared: 08/04/22 Analyzed: 08/08/22						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140	4.41	30	
Surrogate: 1,4-Dioxane-d8	*2.19*		µg/L	10.0		21.9	15-110			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314278 - SW-846 3005A										
Blank (B314278-BLK1)				Prepared: 08/01/22 Analyzed: 08/03/22						
Calcium	ND	0.50	mg/L							
LCS (B314278-BS1)				Prepared: 08/01/22 Analyzed: 08/03/22						
Calcium	3.61	0.50	mg/L	4.00		90.4	80-120			
LCS Dup (B314278-BSD1)				Prepared: 08/01/22 Analyzed: 08/03/22						
Calcium	3.75	0.50	mg/L	4.00		93.8	80-120	3.74	20	
Batch B314606 - SW-846 3005A										
Blank (B314606-BLK1)				Prepared: 08/05/22 Analyzed: 08/16/22						
Calcium	ND	0.50	mg/L							
LCS (B314606-BS1)				Prepared: 08/05/22 Analyzed: 08/16/22						
Calcium	4.02	0.50	mg/L	4.00		100	80-120			
LCS Dup (B314606-BSD1)				Prepared: 08/05/22 Analyzed: 08/16/22						
Calcium	4.00	0.50	mg/L	4.00		100	80-120	0.333	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B314222 - EPA 300.0										
Blank (B314222-BLK1)				Prepared & Analyzed: 07/30/22						
Nitrate as N	ND	0.10	mg/L							
Sulfate	ND	1.0	mg/L							
LCS (B314222-BS1)				Prepared & Analyzed: 07/30/22						
Nitrate as N	0.98	0.10	mg/L	1.00		97.5	90-110			
Sulfate	11	1.0	mg/L	10.0		107	90-110			
LCS Dup (B314222-BSD1)				Prepared & Analyzed: 07/30/22						
Nitrate as N	0.98	0.10	mg/L	1.00		98.2	90-110	0.705	20	
Sulfate	11	1.0	mg/L	10.0		107	90-110	0.0760	20	
Batch B314500 - SM21-23 2320B										
Blank (B314500-BLK1)				Prepared & Analyzed: 08/04/22						
Alkalinity	ND	1.0	mg/L							
LCS (B314500-BS1)				Prepared & Analyzed: 08/04/22						
Alkalinity	60	1.0	mg/L	61.2		98.0	85.8-110			
LCS Dup (B314500-BSD1)				Prepared & Analyzed: 08/04/22						
Alkalinity	61	1.0	mg/L	61.2		99.7	85.8-110	1.65	6.91	
Batch B314694 - SM 21-23 5310B										
Blank (B314694-BLK1)				Prepared & Analyzed: 08/08/22						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B314694-BS1)				Prepared & Analyzed: 08/08/22						
Total Organic Carbon	9.58	1.0	mg/L	10.0		95.8	88.2-114			
LCS Dup (B314694-BSD1)				Prepared & Analyzed: 08/08/22						
Total Organic Carbon	10.3	1.0	mg/L	10.0		103	88.2-114	7.51	11.1	
Batch B315037 - EPA 300.0										
Blank (B315037-BLK1)				Prepared & Analyzed: 08/12/22						
Sulfate	ND	1.0	mg/L							
LCS (B315037-BS1)				Prepared & Analyzed: 08/12/22						
Sulfate	10	1.0	mg/L	10.0		104	90-110			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B315037 - EPA 300.0										
LCS Dup (B315037-BSD1)				Prepared & Analyzed: 08/12/22						
Sulfate	10	1.0	mg/L	10.0		102	90-110	1.59	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
SM 21-23 5310B in Water	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
SM21-23 2320B in Water	
Alkalinity	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6010D in Water	
Calcium	CT,NH,NY,ME,VA,NC
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

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

Company Name:	Arcadis
Address:	One Lincoln Center 110 West Fayette St. Syracuse
Phone:	315-992-0569
Project Name:	Northern Circuits
Project Location:	E. Syracuse
Project Number:	36053191
Project Manager:	Chris Kassel
Pace Analytical Quote Name/Number	
Invoice Recipient:	Chris.Kassel@arcadis.com
Sampled By:	Dan Meander

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Chris.Kassel@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC 8260B	1,4 Dioxane 8270D SIM	Calcium 6010 Total	Nitrate + Sulfate	TOC	Alk by SM2320B	# of Containers	Preservation Code	Container Code
								3	2	1	6	2	1			
								H	O	N	O	P	O			
								V	A	P	P	A	P			
01	MW-18S	7-29-22 0835			X	GW		X	X							
02	MW-6S	7-29-22 1036			X	GW				X	X	X	X			
03	MW-6D	7-29-22 0921			X	GW				X	X	X	X			
04	MW-16S	7-29-22 1015			X	GW		X	X	X	X	X	X			
05	MW-16D	7-29-22 1130			X	GW		X	X	X	X	X	X			
06	TRIP BLANK	—				DI		X								

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) None
P = Phosphoric

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

Comments: Cat B Deliverable Compliance Monitoring

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (Signature)		Date/Time: 7-29-22 1320
Received by: (signature)	4.9, 5.2C	Date/Time: 7/30/22 1137
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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[redacted]

FedEx® Tracking

DELIVERED

Saturday

7/30/2022 at 11:37 am

Signed for by: R.FAUST

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

Get Status Updates

TRACKING ID

276160562467

FROM
EAST LONGMEADOW, MA US

Label Created
7/29/2022 12:07

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
7/29/2022 15:04

IN TRANSIT
WINDSOR LOCKS, CT
7/30/2022 08:21

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/30/2022 08:26

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EAST LONGMEADOW, MA US

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7/30/2022 at 11:37 AM

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F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Arcadis

Received By RLF Date 7/30/22 Time 1137

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct From Sample ____ Ambient ____ Melted Ice ____

Were samples within Tempurature? Within 2-6°C T By Gun # 3 Actual Temp - 4.9, 5.2C
By Blank # ____ Actual Temp - ____

Was Custody Seal In tact? T Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T
Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? T Who was notified? Emma

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T splitting samples require F

Were trip blanks receive T On COC? T

Do All Samples Have the proper pH? Acid T Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	11	500 mL Amb.		500 mL Plastic	4	8oz Amb/Clear	
Meoh-		250 mL Amb.	4	250 mL Plastic	8	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 16, 2022

Chris Kassel
Arcadis

,

RE: Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Dear Chris Kassel:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Stephanie Fitzgerald, NYDEC
Mark A Flusche, Arcadis

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-12S **Lab ID: 70212903001** Collected: 04/27/22 11:55 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	76-13-1	
1,1-Dichloroethane	**4020**	ug/L	100	100		05/06/22 17:56	75-34-3	
1,1-Dichloroethene	**127**	ug/L	1.0	1		05/06/22 13:44	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 13:44	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	95-50-1	
1,2-Dichloroethane	**3.6**	ug/L	1.0	1		05/06/22 13:44	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	106-46-7	
1,4-Dioxane (p-Dioxane)	**125**	ug/L	100	1		05/06/22 13:44	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 13:44	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 13:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 13:44	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 13:44	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 13:44	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	108-90-7	
Chloroethane	**34.7**	ug/L	1.0	1		05/06/22 13:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 13:44	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 13:44	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 13:44	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:44	75-69-4	
Vinyl chloride	**20.8**	ug/L	1.0	1		05/06/22 13:44	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-12S **Lab ID: 70212903001** Collected: 04/27/22 11:55 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 13:44	1330-20-7	
cis-1,2-Dichloroethene	**10.2**	ug/L	1.0	1		05/06/22 13:44	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:44	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 13:44	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/06/22 13:44	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/06/22 13:44	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-13S **Lab ID: 70212903002** Collected: 04/27/22 13:05 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	76-13-1	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		05/06/22 18:34	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 18:34	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 18:34	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 18:34	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 18:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 18:34	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 18:34	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	108-90-7	
Chloroethane	**5.7**	ug/L	1.0	1		05/06/22 18:34	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 18:34	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	124-48-1	
Dichlorodifluoromethane	**6.8**	ug/L	1.0	1		05/06/22 18:34	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 18:34	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 18:34	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 18:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-13S **Lab ID: 70212903002** Collected: 04/27/22 13:05 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 18:34	1330-20-7	
cis-1,2-Dichloroethene	**3.8**	ug/L	1.0	1		05/06/22 18:34	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 18:34	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 18:34	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 18:34	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/06/22 18:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10S **Lab ID: 70212903003** Collected: 04/27/22 11:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	76-13-1	
1,1-Dichloroethane	**320**	ug/L	5.0	5		05/06/22 17:36	75-34-3	
1,1-Dichloroethene	**17.1**	ug/L	1.0	1		05/06/22 14:23	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 14:23	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 14:23	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 14:23	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 14:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 14:23	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 14:23	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 14:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 14:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 14:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	108-90-7	
Chloroethane	**6.5**	ug/L	1.0	1		05/06/22 14:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 14:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	124-48-1	
Dichlorodifluoromethane	**1.3**	ug/L	1.0	1		05/06/22 14:23	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 14:23	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 14:23	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 14:23	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 14:23	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:23	75-69-4	
Vinyl chloride	**2.3**	ug/L	1.0	1		05/06/22 14:23	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10S **Lab ID: 70212903003** Collected: 04/27/22 11:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 14:23	1330-20-7	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		05/06/22 14:23	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:23	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/06/22 14:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/06/22 14:23	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		05/06/22 14:23	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10D **Lab ID: 70212903004** Collected: 04/27/22 09:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	71-55-6	M1
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	76-13-1	
1,1-Dichloroethane	**64.4**	ug/L	1.0	1		05/06/22 14:42	75-34-3	
1,1-Dichloroethene	**4.8**	ug/L	1.0	1		05/06/22 14:42	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	87-61-6	R1
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	120-82-1	R1
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 14:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 14:42	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 14:42	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 14:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 14:42	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 14:42	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	74-83-9	L1,M0, R1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 14:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 14:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	124-48-1	
Dichlorodifluoromethane	**1.5**	ug/L	1.0	1		05/06/22 14:42	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 14:42	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 14:42	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 14:42	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 14:42	75-69-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-10D **Lab ID: 70212903004** Collected: 04/27/22 09:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**1.4**	ug/L	1.0	1		05/06/22 14:42	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 14:42	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	156-60-5	M1,R1
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 14:42	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 14:42	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 14:42	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 14:42	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1 **Lab ID: 70212903005** Collected: 04/27/22 14:20 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:01	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 15:01	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 15:01	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 15:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:01	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 15:01	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:01	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:01	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:01	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:01	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	100-42-5	
Tetrachloroethene	**825**	ug/L	10.0	10		05/06/22 18:15	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	108-88-3	
Trichloroethene	**33.0**	ug/L	1.0	1		05/06/22 15:01	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:01	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1 **Lab ID: 70212903005** Collected: 04/27/22 14:20 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:01	1330-20-7	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	1		05/06/22 15:01	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:01	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		05/06/22 15:01	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 15:01	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/06/22 15:01	2037-26-5	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9S **Lab ID: 70212903006** Collected: 04/27/22 13:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	76-13-1	
1,1-Dichloroethane	**5.9**	ug/L	1.0	1		05/06/22 15:21	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:21	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 15:21	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 15:21	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 15:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:21	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 15:21	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:21	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	124-48-1	
Dichlorodifluoromethane	**2.3**	ug/L	1.0	1		05/06/22 15:21	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:21	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:21	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:21	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	100-42-5	
Tetrachloroethene	**121**	ug/L	1.0	1		05/06/22 15:21	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	108-88-3	
Trichloroethene	**24.1**	ug/L	1.0	1		05/06/22 15:21	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:21	75-01-4	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9S **Lab ID: 70212903006** Collected: 04/27/22 13:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:21	1330-20-7	
cis-1,2-Dichloroethene	**6.3**	ug/L	1.0	1		05/06/22 15:21	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:21	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/06/22 15:21	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 15:21	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 15:21	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9D **Lab ID: 70212903007** Collected: 04/27/22 14:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	76-13-1	
1,1-Dichloroethane	**78.5**	ug/L	1.0	1		05/06/22 15:40	75-34-3	
1,1-Dichloroethene	**2.1**	ug/L	1.0	1		05/06/22 15:40	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 15:40	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 15:40	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 15:40	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 15:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 15:40	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 15:40	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 15:40	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	124-48-1	
Dichlorodifluoromethane	**38.4**	ug/L	1.0	1		05/06/22 15:40	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 15:40	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 15:40	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 15:40	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-9D **Lab ID: 70212903007** Collected: 04/27/22 14:07 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 15:40	1330-20-7	
cis-1,2-Dichloroethene	**3.4**	ug/L	1.0	1		05/06/22 15:40	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 15:40	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 15:40	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 15:40	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/06/22 15:40	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1D **Lab ID: 70212903008** Collected: 04/27/22 15:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 16:00	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 16:00	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 16:00	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 16:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 16:00	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 16:00	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 16:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 16:00	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 16:00	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 16:00	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 16:00	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	100-42-5	
Tetrachloroethene	**184**	ug/L	1.0	1		05/06/22 16:00	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	108-88-3	
Trichloroethene	**26.9**	ug/L	1.0	1		05/06/22 16:00	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:00	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-1D **Lab ID: 70212903008** Collected: 04/27/22 15:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:00	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:00	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 16:00	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:00	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/06/22 16:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-14D **Lab ID: 70212903009** Collected: 04/27/22 16:45 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 16:19	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 16:19	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 16:19	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 16:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 16:19	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 16:19	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 16:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 16:19	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 16:19	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:19	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-14D **Lab ID: 70212903009** Collected: 04/27/22 16:45 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:19	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:19	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/06/22 16:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:19	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:19	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8S **Lab ID: 70212903010** Collected: 04/27/22 15:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	79-00-5	
1,1,2-Trichlorotrifluoroethane	**191**	ug/L	2.0	2		05/06/22 18:54	76-13-1	
1,1-Dichloroethane	**265**	ug/L	2.0	2		05/06/22 18:54	75-34-3	
1,1-Dichloroethene	**53.8**	ug/L	1.0	1		05/06/22 16:38	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 16:38	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	95-50-1	
1,2-Dichloroethane	**2.1**	ug/L	1.0	1		05/06/22 16:38	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 16:38	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 16:38	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 16:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 16:38	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 16:38	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 16:38	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 16:38	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	124-48-1	
Dichlorodifluoromethane	**194**	ug/L	1.0	1		05/06/22 16:38	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 16:38	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 16:38	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 16:38	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	100-42-5	
Tetrachloroethene	**186**	ug/L	1.0	1		05/06/22 16:38	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	108-88-3	
Trichloroethene	**42.3**	ug/L	1.0	1		05/06/22 16:38	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:38	75-69-4	
Vinyl chloride	**1.4**	ug/L	1.0	1		05/06/22 16:38	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8S **Lab ID: 70212903010** Collected: 04/27/22 15:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:38	1330-20-7	
cis-1,2-Dichloroethene	**67.6**	ug/L	1.0	1		05/06/22 16:38	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	10061-01-5	
trans-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		05/06/22 16:38	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:38	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 16:38	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/06/22 16:38	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8D **Lab ID: 70212903011** Collected: 04/27/22 16:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	76-13-1	
1,1-Dichloroethane	**45.5**	ug/L	1.0	1		05/06/22 16:58	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 16:58	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 16:58	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 16:58	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 16:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 16:58	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 16:58	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 16:58	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 16:58	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	124-48-1	
Dichlorodifluoromethane	**24.0**	ug/L	1.0	1		05/06/22 16:58	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 16:58	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 16:58	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 16:58	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 16:58	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: MW-8D **Lab ID: 70212903011** Collected: 04/27/22 16:17 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 16:58	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 16:58	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/06/22 16:58	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 16:58	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 16:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: TRIP BLANK **Lab ID: 70212903012** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 13:25	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 13:25	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 13:25	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 13:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 13:25	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 13:25	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 13:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 13:25	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 13:25	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/06/22 13:25	75-01-4	

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(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: TRIP BLANK **Lab ID: 70212903012** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 13:25	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 13:25	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/06/22 13:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/06/22 13:25	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/06/22 13:25	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: DUP-042722 **Lab ID: 70212903013** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	76-13-1	
1,1-Dichloroethane	**274**	ug/L	3.0	3		05/06/22 19:13	75-34-3	
1,1-Dichloroethene	**17.4**	ug/L	1.0	1		05/06/22 17:17	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/06/22 17:17	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/06/22 17:17	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/06/22 17:17	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/06/22 17:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/06/22 17:17	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/06/22 17:17	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/06/22 17:17	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	74-83-9	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/06/22 17:17	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/06/22 17:17	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	108-90-7	
Chloroethane	**5.4**	ug/L	1.0	1		05/06/22 17:17	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/06/22 17:17	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	74-87-3	
Cyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	124-48-1	
Dichlorodifluoromethane	**1.5**	ug/L	1.0	1		05/06/22 17:17	75-71-8	IH,v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/06/22 17:17	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/06/22 17:17	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/06/22 17:17	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/06/22 17:17	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/06/22 17:17	75-69-4	
Vinyl chloride	**2.0**	ug/L	1.0	1		05/06/22 17:17	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Sample: DUP-042722 **Lab ID: 70212903013** Collected: 04/27/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/06/22 17:17	1330-20-7	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	1		05/06/22 17:17	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/06/22 17:17	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/06/22 17:17	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/06/22 17:17	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/06/22 17:17	2037-26-5	

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QUALITY CONTROL DATA

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

QC Batch: 255553 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212903001, 70212903002, 70212903003, 70212903004, 70212903005, 70212903006, 70212903007, 70212903008, 70212903009, 70212903010, 70212903011, 70212903012, 70212903013

METHOD BLANK: 1290657 Matrix: Water
Associated Lab Samples: 70212903001, 70212903002, 70212903003, 70212903004, 70212903005, 70212903006, 70212903007, 70212903008, 70212903009, 70212903010, 70212903011, 70212903012, 70212903013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/06/22 11:39	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	05/06/22 11:39	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/06/22 11:39	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/06/22 11:39	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
1,4-Dioxane (p-Dioxane)	ug/L	<100	100	05/06/22 11:39	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/06/22 11:39	
2-Hexanone	ug/L	<5.0	5.0	05/06/22 11:39	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/06/22 11:39	
Acetone	ug/L	<5.0	5.0	05/06/22 11:39	
Benzene	ug/L	<1.0	1.0	05/06/22 11:39	
Bromochloromethane	ug/L	<1.0	1.0	05/06/22 11:39	
Bromodichloromethane	ug/L	<1.0	1.0	05/06/22 11:39	
Bromoform	ug/L	<1.0	1.0	05/06/22 11:39	
Bromomethane	ug/L	<1.0	1.0	05/06/22 11:39	
Carbon disulfide	ug/L	<1.0	1.0	05/06/22 11:39	
Carbon tetrachloride	ug/L	<1.0	1.0	05/06/22 11:39	
Chlorobenzene	ug/L	<1.0	1.0	05/06/22 11:39	
Chloroethane	ug/L	<1.0	1.0	05/06/22 11:39	
Chloroform	ug/L	<1.0	1.0	05/06/22 11:39	
Chloromethane	ug/L	<1.0	1.0	05/06/22 11:39	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/06/22 11:39	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/06/22 11:39	
Cyclohexane	ug/L	<1.0	1.0	05/06/22 11:39	v3
Dibromochloromethane	ug/L	<1.0	1.0	05/06/22 11:39	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/06/22 11:39	v3
Ethylbenzene	ug/L	<1.0	1.0	05/06/22 11:39	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/06/22 11:39	
Methyl acetate	ug/L	<1.0	1.0	05/06/22 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

METHOD BLANK: 1290657 Matrix: Water

Associated Lab Samples: 70212903001, 70212903002, 70212903003, 70212903004, 70212903005, 70212903006, 70212903007, 70212903008, 70212903009, 70212903010, 70212903011, 70212903012, 70212903013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/06/22 11:39	
Methylcyclohexane	ug/L	<1.0	1.0	05/06/22 11:39	v3
Methylene Chloride	ug/L	<1.0	1.0	05/06/22 11:39	
Styrene	ug/L	<1.0	1.0	05/06/22 11:39	
Tetrachloroethene	ug/L	<1.0	1.0	05/06/22 11:39	v3
Toluene	ug/L	<1.0	1.0	05/06/22 11:39	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/06/22 11:39	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/06/22 11:39	
Trichloroethene	ug/L	<1.0	1.0	05/06/22 11:39	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/06/22 11:39	
Vinyl chloride	ug/L	<1.0	1.0	05/06/22 11:39	
Xylene (Total)	ug/L	<3.0	3.0	05/06/22 11:39	
1,2-Dichloroethane-d4 (S)	%	102	81-122	05/06/22 11:39	
4-Bromofluorobenzene (S)	%	96	79-118	05/06/22 11:39	
Toluene-d8 (S)	%	98	82-122	05/06/22 11:39	

LABORATORY CONTROL SAMPLE: 1290658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.8	96	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-127	
1,1,2-Trichloroethane	ug/L	50	51.0	102	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.1	88	54-133	
1,1-Dichloroethane	ug/L	50	49.4	99	72-126	
1,1-Dichloroethene	ug/L	50	49.8	100	66-133	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	50-143	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	46.3	93	47-133	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	81-123	
1,2-Dichlorobenzene	ug/L	50	47.6	95	80-117	
1,2-Dichloroethane	ug/L	50	53.9	108	69-134	
1,2-Dichloropropane	ug/L	50	49.6	99	75-125	
1,3-Dichlorobenzene	ug/L	50	46.4	93	82-116	
1,4-Dichlorobenzene	ug/L	50	46.3	93	80-117	
1,4-Dioxane (p-Dioxane)	ug/L	1250	1170	94	32-175	
2-Butanone (MEK)	ug/L	50	51.3	103	33-165	IH
2-Hexanone	ug/L	50	53.1	106	50-128	IH
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.5	99	62-131	
Acetone	ug/L	50	71.3	143	14-156	IH
Benzene	ug/L	50	51.5	103	78-117	
Bromochloromethane	ug/L	50	51.4	103	77-122	
Bromodichloromethane	ug/L	50	51.3	103	80-123	
Bromoform	ug/L	50	51.8	104	49-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

LABORATORY CONTROL SAMPLE: 1290658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	71.8	144	10-143	IH,L1,v1
Carbon disulfide	ug/L	50	50.6	101	66-133	
Carbon tetrachloride	ug/L	50	43.5	87	64-135	
Chlorobenzene	ug/L	50	49.1	98	79-117	
Chloroethane	ug/L	50	41.3	83	31-156	
Chloroform	ug/L	50	53.1	106	79-123	
Chloromethane	ug/L	50	38.4	77	39-116	
cis-1,2-Dichloroethene	ug/L	50	52.5	105	77-125	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	78-131	
Cyclohexane	ug/L	50	37.5	75	53-130	v3
Dibromochloromethane	ug/L	50	50.2	100	65-123	
Dichlorodifluoromethane	ug/L	50	35.4	71	13-149	IH,v3
Ethylbenzene	ug/L	50	44.5	89	79-115	
Isopropylbenzene (Cumene)	ug/L	50	40.0	80	74-118	
Methyl acetate	ug/L	50	51.0	102	10-214	
Methyl-tert-butyl ether	ug/L	50	52.1	104	69-118	
Methylcyclohexane	ug/L	50	34.9	70	63-124	v3
Methylene Chloride	ug/L	50	51.1	102	67-123	
Styrene	ug/L	50	48.3	97	82-121	
Tetrachloroethene	ug/L	50	33.2	66	65-120	v3
Toluene	ug/L	50	49.8	100	80-114	
trans-1,2-Dichloroethene	ug/L	50	53.0	106	74-123	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	73-135	
Trichloroethene	ug/L	50	46.7	93	79-115	
Trichlorofluoromethane	ug/L	50	48.7	97	51-136	
Vinyl chloride	ug/L	50	42.5	85	49-118	
Xylene (Total)	ug/L	150	135	90	80-118	
1,2-Dichloroethane-d4 (S)	%			100	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			100	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290659 1290660

Parameter	Units	70212903004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	52.8	61.8	106	124	72-123	16	M1
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.3	56.4	101	113	64-133	11	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	51.8	58.3	104	117	78-120	12	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	53.6	63.0	107	126	56-136	16	
1,1-Dichloroethane	ug/L	64.4	50	50	116	122	103	116	70-124	5	
1,1-Dichloroethene	ug/L	4.8	50	50	57.5	65.3	105	121	61-139	13	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	48.8	60.3	98	121	48-140	21	R1
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	49.7	61.0	99	122	53-138	21	R1
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	46.0	52.1	92	104	32-137	12	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	51.1	56.0	102	112	78-121	9	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1290659 1290660

Parameter	Units	70212903004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichlorobenzene	ug/L	<1.0	50	50	50.9	58.7	102	117	75-120	14	
1,2-Dichloroethane	ug/L	<1.0	50	50	53.5	59.6	107	119	58-138	11	
1,2-Dichloropropane	ug/L	<1.0	50	50	50.0	58.2	100	116	74-122	15	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	50.6	59.6	101	119	78-119	16	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	49.4	58.9	99	118	76-118	18	
1,4-Dioxane (p-Dioxane)	ug/L	<100	1250	1250	1350	1470	108	117	10-192	8	
2-Butanone (MEK)	ug/L	<5.0	50	50	45.7	50.0	91	100	33-148	9	IH
2-Hexanone	ug/L	<5.0	50	50	51.1	54.9	102	110	49-124	7	IH
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	53.1	58.0	106	116	60-136	9	
Acetone	ug/L	<5.0	50	50	47.5	50.8	95	102	35-112	7	IH
Benzene	ug/L	<1.0	50	50	52.2	62.3	104	125	70-130	18	
Bromochloromethane	ug/L	<1.0	50	50	50.9	57.3	102	115	70-122	12	
Bromodichloromethane	ug/L	<1.0	50	50	51.9	59.2	104	118	74-122	13	
Bromoform	ug/L	<1.0	50	50	50.9	57.5	102	115	39-139	12	
Bromomethane	ug/L	<1.0	50	50	57.0	76.3	114	153	10-130	29	IH,M0,R1, v1
Carbon disulfide	ug/L	<1.0	50	50	50.5	58.3	101	117	60-129	14	
Carbon tetrachloride	ug/L	<1.0	50	50	50.4	56.4	101	113	56-143	11	
Chlorobenzene	ug/L	<1.0	50	50	51.7	60.3	103	121	74-122	15	
Chloroethane	ug/L	<1.0	50	50	41.0	47.3	82	95	35-146	14	
Chloroform	ug/L	<1.0	50	50	53.8	61.8	108	124	71-129	14	
Chloromethane	ug/L	<1.0	50	50	35.8	41.1	72	82	29-112	14	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	54.2	62.8	108	126	73-129	15	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50.8	56.4	102	113	67-130	10	
Cyclohexane	ug/L	<1.0	50	50	49.6	57.9	99	116	46-146	15	v3
Dibromochloromethane	ug/L	<1.0	50	50	49.8	56.2	100	112	55-126	12	
Dichlorodifluoromethane	ug/L	1.5	50	50	24.0	28.1	45	53	10-123	16	IH,v3
Ethylbenzene	ug/L	<1.0	50	50	51.7	59.5	103	119	70-126	14	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.6	60.0	101	120	68-127	17	
Methyl acetate	ug/L	<1.0	50	50	46.8	52.3	94	105	10-260	11	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	50.8	57.1	102	114	60-140	12	
Methylcyclohexane	ug/L	<1.0	50	50	50.2	59.6	100	119	66-135	17	v3
Methylene Chloride	ug/L	<1.0	50	50	48.3	56.6	97	113	69-117	16	
Styrene	ug/L	<1.0	50	50	51.0	58.5	102	117	79-123	14	
Tetrachloroethene	ug/L	<1.0	50	50	40.6	47.7	81	95	64-124	16	v3
Toluene	ug/L	<1.0	50	50	53.4	61.4	107	123	76-123	14	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	53.3	65.5	107	131	69-127	21	M1,R1
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50.2	56.5	100	113	61-130	12	
Trichloroethene	ug/L	<1.0	50	50	51.7	60.9	103	122	73-125	16	
Trichlorofluoromethane	ug/L	<1.0	50	50	52.9	60.5	106	121	59-129	13	
Vinyl chloride	ug/L	1.4	50	50	41.8	48.2	81	94	33-127	14	
Xylene (Total)	ug/L	<3.0	150	150	155	180	103	120	78-123	15	
1,2-Dichloroethane-d4 (S)	%						101	98	81-122		
4-Bromofluorobenzene (S)	%						101	99	79-118		
Toluene-d8 (S)	%						99	98	82-122		

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NORTHERN CIRCUITS #734124 4/27
Pace Project No.: 70212903

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212903001	**MW-12S**	EPA 8260C/5030C	255553		
70212903002	**MW-13S**	EPA 8260C/5030C	255553		
70212903003	**MW-10S**	EPA 8260C/5030C	255553		
70212903004	**MW-10D**	EPA 8260C/5030C	255553		
70212903005	**MW-1**	EPA 8260C/5030C	255553		
70212903006	**MW-9S**	EPA 8260C/5030C	255553		
70212903007	**MW-9D**	EPA 8260C/5030C	255553		
70212903008	**MW-1D**	EPA 8260C/5030C	255553		
70212903009	**MW-14D**	EPA 8260C/5030C	255553		
70212903010	**MW-8S**	EPA 8260C/5030C	255553		
70212903011	**MW-8D**	EPA 8260C/5030C	255553		
70212903012	**TRIP BLANK**	EPA 8260C/5030C	255553		
70212903013	**DUP-042722**	EPA 8260C/5030C	255553		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in

WO# : 70212903

70212903

LAB USE ONLY

Company:	Arcadis
Address:	One Lincoln Center 110 West Fayette St. Syracuse NY
Report To:	Chris Kassel
Copy To:	
Customer Project Name/Number:	Northern Circuits
Phone:	315-992-0568
Email:	Daniel.Meardo@arcadis.com
Collected by (print):	Daniel Meardo
Collected by (signature):	
Sample Disposal:	[ ] Dispose as appropriate [ ] Return [ ] Archive _____ [ ] Hold _____
Billing Information:	Bills NYSDEC
Email To:	Chris.Kassel@arcadis
Site Collection Info/Address:	3 Holt Dr. Dewitt, NY
State / County/City / Time Zone Collected:	PT MT CT ET
Site/Facility ID #	
Purchase Order #	
Quote #	
Turnaround Date Required:	Standard
RUSH:	Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)
Compliance Monitoring?	[ ] Yes [ ] No
DW PWS ID #:	
DW Location Code #:	
Immediately Packed on Ice?	[ ] Yes [ ] No
Field Filtered (if applicable):	[ ] Yes [ ] No
Analysis:	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	8260	1,4 Dioxane	Analyses	LAB Sample # / Comments
MW-12S	GW	G	4/27/22	1155	/	/		5	x	x		
MW-13S	GW	G	4/27/22	1305	/	/		5	x	x		
MW-10S	GW	G	4/27/22	1107	/	/		5	x	x		
MW-10D	GW	G	4/27/22	0930	/	/		15	x	x		MS/MSD
MW-1	GW	G	4/27/22	1420	/	/		5	x	x		
MW-9S	GW	G	4/27/22	1307	/	/		5	x	x		
MW-9D	GW	G	4/27/22	1407	/	/		5	x	x		
MW-1D	GW	G	4/27/22	1530	/	/		5	x	x		
MW-14D	GW	G	4/27/22	1645	/	/		5	x	x		
MW-8S	GW	G	4-27-22	1517	/	/		5	x	x		

Customer Remarks/ Special Conditions/ Possible Hazards: 3 coolers

Type of Ice Used: Wet [x] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y (N) N/A

Packing Material Used: Bubble Bags

LAB Tracking #: 1167 2nd 3007

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [x] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier

MTJL LAB USE ONLY

Table #: _____

ACCT #: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: IR91

Cooler 1 Temp Upon Receipt 2.7 oC

Cooler 1 Therm Corr. Factor +1 oC

Cooler 1 Corrected Temp 2.8 oC

Comments: _____

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page _____ of _____

Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
ANA	4-27-22 1715	PACE	4/27 1715
CACE	4/28 1700	PACE	4/29/22 12:43

Page 35 of 41

F-ALL-C-010-rev.00, 05Jul2018

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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WO# : 70212903 — Worder Number or MTJL Log-in

PM: LS1 Due Date: 05/13/22

CLIENT: ARCADIS-SYRA

USE ONLY

Company: Arcadis	**Billing Information:** Bill to NYSDEC
Address: One Lincoln Center 110 West Fayette St.	
Report To: Chris. Kassel	**Email To:** Chris.Kassel@arcadis.com
Copy To:	**Site Collection Info/Address:**
Customer Project Name/Number: NoAhern Circuits	**State:** NY **County/City:** De Witt **Time Zone Collected:** PT MT CT (ET)
Phone: 315-942-9568 **Email:** Daniel.Meandro@arcadis	**Site/Facility ID #**
Collected by (print): Dan Meandro	**Purchase Order #**
Collected by (signature):	**Quote #**
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive _____ [ ] Hold _____	**Turnaround Date Required:** Standard **RUSH:** Same Day / Next Day / 2 Day / 3 Day / 4 Day / 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No **DW PWS ID #:** **DW Location Code #:** **Immediately Packed on Ice?** [X] Yes [ ] No **Field Filtered (if applicable):** [ ] Yes [X] No **Analysis:** _____

Container Preservative Type **: 3 (A)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 8260	Analyses: 8270 SIM	LAB USE ONLY: Lab Sample # / Comments
MW-8D	GW	G	4-27-22	1617	-	-	-	5	X	X	
TRIP BLANK	DI	-	-	-	-	-	-	2	X		
DUP-042722	GW	G	4-27-22	-	-	-	-	5	X	X	

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	(Y)	N	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples received on ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in holding time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips: _____			
Sample pH Acceptable	Y	N	(NA)
pH Strips: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

Customer Remarks/ Special Conditions/ Possible Hazards: 3 coolers

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used: Zip Ties

LAB Tracking #: 7767 2R1 3007

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [X] NA

Samples received via: [X] FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #: _____

ACCT #: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: T4C41

Cooler 1 Temp Upon Receipt: 2.7 oC

Cooler 1 Therm Corr. Factor: 1.1 oC

Cooler 1 Corrected Temp: 2.6 oC

Comments: _____

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page _____ of _____

	Date/Time		Date/Time
Relinquished by/Company: (Signature)	4/27/22 1715	Received by/Company: (Signature)	4/27/22 1715
Relinquished by/Company: (Signature) PACE	4/28 1700	Received by/Company: (Signature) PACE	4/29/22 10:45
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

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F-ALL-C-010-rev.00 05Jul2018

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May 13, 2022

Lea Sherman
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: Northern Circuit #734124 4/27
Client Job Number:
Project Number: 70212903
Laboratory Work Order Number: 22E0086

Enclosed are results of analyses for samples as received by the laboratory on May 3, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Lea Sherman

REPORT DATE: 5/13/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70212903

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22E0086

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Northern Circuit #734124 4/27

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-12S	22E0086-01	Water		SW-846 8270E	
MW-13S	22E0086-02	Water		SW-846 8270E	
MW-10S	22E0086-03	Water		SW-846 8270E	
MW-10D	22E0086-04	Water		SW-846 8270E	
MW-1	22E0086-05	Water		SW-846 8270E	
MW-9S	22E0086-06	Water		SW-846 8270E	
MW-9D	22E0086-07	Water		SW-846 8270E	
MW-1D	22E0086-08	Water		SW-846 8270E	
MW-14D	22E0086-09	Water		SW-846 8270E	
MW-8S	22E0086-10	Water		SW-846 8270E	
MW-8D	22E0086-11	Water		SW-846 8270E	
DUP-042722	22E0086-12	Water		SW-846 8270E	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8270E

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

1,4-Dioxane
22E0086-01[MW-12S], B307529-MS1, B307529-MSD1

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

22E0086-01RE1[MW-12S]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-12S Sampled: 4/27/2022 11:55

Sample ID: 22E0086-01

Sample Matrix: Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	110	1.0	µg/L	1		SW-846 8270E	5/11/22	5/12/22 16:06	IMR
1,4-Dioxane	120	0.19	µg/L	1	E	SW-846 8270E	5/4/22	5/9/22 17:00	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.9	15-110		5/9/22 17:00
1,4-Dioxane-d8	50.8	15-110		5/12/22 16:06

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-13S Sampled: 4/27/2022 13:05

Sample ID: 22E0086-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	48	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:20	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	21.7	15-110					5/9/22 17:20

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-10S Sampled: 4/27/2022 11:07

Sample ID: 22E0086-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	11	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:39	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.1	15-110		5/9/22 17:39

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-10D Sampled: 4/27/2022 09:30

Sample ID: 22E0086-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	92	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 17:59	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.5	15-110		5/9/22 17:59

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-1 Sampled: 4/27/2022 14:20

Sample ID: 22E0086-05

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 18:37	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	20.9	15-110					5/9/22 18:37

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-9S Sampled: 4/27/2022 13:07

Sample ID: 22E0086-06

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.65	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 18:56	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	26.5	15-110		5/9/22 18:56

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-9D Sampled: 4/27/2022 14:07

Sample ID: 22E0086-07

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.9	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:16	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	22.9	15-110		5/9/22 19:16

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-1D Sampled: 4/27/2022 15:30

Sample ID: 22E0086-08

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.24	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:35	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.2	15-110		5/9/22 19:35

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-14D Sampled: 4/27/2022 16:45

Sample ID: 22E0086-09

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 19:55	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	22.3	15-110		5/9/22 19:55

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-8S Sampled: 4/27/2022 15:17

Sample ID: 22E0086-10

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.54	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:14	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.4	15-110		5/9/22 20:14

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: MW-8D Sampled: 4/27/2022 16:17

Sample ID: 22E0086-11

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.1	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:34	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.0	15-110		5/9/22 20:34

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Project Location: Northern Circuit #734124 4/27 Sample Description: Work Order: 22E0086

Date Received: 5/3/2022

Field Sample #: DUP-042722 Sampled: 4/27/2022 00:00

Sample ID: 22E0086-12

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	11	0.19	µg/L	1		SW-846 8270E	5/4/22	5/9/22 20:54	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.0	15-110		5/9/22 20:54

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0086-01 [MW-12S]	B307529	1040	1.00	05/04/22
22E0086-02 [MW-13S]	B307529	1040	1.00	05/04/22
22E0086-03 [MW-10S]	B307529	1040	1.00	05/04/22
22E0086-04 [MW-10D]	B307529	1040	1.00	05/04/22
22E0086-05 [MW-1]	B307529	1040	1.00	05/04/22
22E0086-06 [MW-9S]	B307529	1030	1.00	05/04/22
22E0086-07 [MW-9D]	B307529	1030	1.00	05/04/22
22E0086-08 [MW-1D]	B307529	1040	1.00	05/04/22
22E0086-09 [MW-14D]	B307529	1040	1.00	05/04/22
22E0086-10 [MW-8S]	B307529	1030	1.00	05/04/22
22E0086-11 [MW-8D]	B307529	1040	1.00	05/04/22
22E0086-12 [DUP-042722]	B307529	1040	1.00	05/04/22

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0086-01RE1 [MW-12S]	B308122	200	1.00	05/11/22

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B307529 - SW-846 3510C										
Blank (B307529-BLK1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.38*		µg/L	10.0		23.8	15-110			
LCS (B307529-BS1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	10.1	0.20	µg/L	10.0		101	40-140			
Surrogate: 1,4-Dioxane-d8	*2.29*		µg/L	10.0		22.9	15-110			
LCS Dup (B307529-BSD1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	10.1	0.20	µg/L	10.0		101	40-140	0.267	30	
Surrogate: 1,4-Dioxane-d8	*2.29*		µg/L	10.0		22.9	15-110			
Matrix Spike (B307529-MS1)	**Source: 22E0086-04**			Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	102	0.19	µg/L	9.62	92.1	98.2	40-140			E
Surrogate: 1,4-Dioxane-d8	*2.04*		µg/L	9.62		21.2	15-110			
Matrix Spike Dup (B307529-MSD1)	**Source: 22E0086-04**			Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	102	0.19	µg/L	9.62	92.1	98.4	40-140	0.0199	20	E
Surrogate: 1,4-Dioxane-d8	*2.05*		µg/L	9.62		21.3	15-110			
Batch B308122 - SW-846 3510C										
Blank (B308122-BLK1)				Prepared: 05/11/22 Analyzed: 05/12/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.19*		µg/L	10.0		21.9	15-110			
LCS (B308122-BS1)				Prepared: 05/11/22 Analyzed: 05/12/22						
1,4-Dioxane	10.1	0.20	µg/L	10.0		101	40-140			
Surrogate: 1,4-Dioxane-d8	*2.61*		µg/L	10.0		26.1	15-110			
LCS Dup (B308122-BSD1)				Prepared: 05/11/22 Analyzed: 05/12/22						
1,4-Dioxane	10.5	0.20	µg/L	10.0		105	40-140	3.71	30	
Surrogate: 1,4-Dioxane-d8	*2.30*		µg/L	10.0		23.0	15-110			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
H-06	Sample was extracted past the recommended holding time.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
1,4-Dioxane	NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22E0086

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: ☒ Yes ☐ No

Workorder: 70212903 **Workorder Name:** NORTHERN CIRCUITS #734124 4/27 **Owner Received Date:** 4/29/2022 **Results Requested By:** 5/13/2022

Report To	Subcontract To
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: # preserved	Requested Analysis: 1,4 DIOXANE BY 8270 SIM	LAB USE ONLY
1	MW-12S	PS	4/27/2022 11:55	70212903001	Water	1	X	
2	MW-13S	PS	4/27/2022 13:05	70212903002	Water	1	X	
3	MW-10S	PS	4/27/2022 11:07	70212903003	Water	1	X	
4	MW-10D	RQS	4/27/2022 09:30	70212903004	Water	1	X	
5	MW-1	PS	4/27/2022 14:20	70212903005	Water	1	X	
6	MW-9S	PS	4/27/2022 13:07	70212903006	Water	1	X	
7	MW-9D	PS	4/27/2022 14:07	70212903007	Water	1	X	
8	MW-1D	PS	4/27/2022 15:30	70212903008	Water	1	X	
9	MW-14D	PS	4/27/2022 16:45	70212903009	Water	1	X	
10	MW-8S	PS	4/27/2022 15:17	70212903010	Water	1	X	
11	MW-8D	PS	4/27/2022 16:17	70212903011	Water	1	X	
12	DUP-042722	PS	4/27/2022 00:00	70212903013	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	SARA Rivinius Pace LI	5/2/22 1800		5/3/22 0003
2				
3				

Comments

Cooler Temperature on Receipt 3.3 2.6 3.0 2.7 3.7 °C | Custody Seal Y or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in

WO#: 70212903

70212903

Company: Arcadis

Address: One Lincoln Center 110 West Fayette St. Syracuse NY

Report To: Chris Kassel

Copy To:

Customer Project Name/Number: Northern Circuits

Phone: 315-992-0568

Email: Daniel.Meardon@arcadis.com

Collected by (print): Daniel Meardon

Collected by (signature):

Sample Disposal:
[ ] Dispose as appropriate [ ] Return
[ ] Archive _____
[ ] Hold _____

Billing Information: Bills NYSDEC

Email To: Chris.Kassel@arcadis

Site Collection Info/Address: 8 Isle St. Beulit, NY

State / County/City / Time Zone Collected: PT MT CT ET

Site/Facility ID #

Purchase Order #

Quote #

Turnaround Date Required: Standard

RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:

DW Location Code #:

Immediately Packed on ice? [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	8260 - 1,4 Dioxane (8270 SIM)	
MW-125	GW	G	4/27/22	1155				5	X	X
MW-135	GW	G	4/27/22	1305				5	X	X
MW-105	GW	G	4/27/22	1107				5	X	X
MW-100	GW	G	4/27/22	0930				15	X	X
MW-1	GW	G	4/27/22	1420				5	X	X
MW-95	GW	G	4/27/22	1307				5	X	X
MW-90	GW	G	4/27/22	1407				5	X	X
MW-10	GW	G	4/27/22	1530				5	X	X
MW-140	GW	G	4/27/22	1645				5	X	X
MW-85	GW	G	4-27-22	1517				5	X	X

Customer Remarks/ Special Conditions/ Possible Hazards:

3 coolers

Type of Ice Used: Wet Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (<72 hours): Y (N) NA

Packing Material Used: Bubble Bag

LAB Tracking #: 7767 2nd 3207

Radchem sample(s) screened: <500 cpm [ ] Y [ ] N [ ] NA

Cooler(s) received via: FedEx [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

Relinquished by/Company: (Signature) ANA — Date/Time: 4-27-22 1715 — Received by/Company : (Signature) — Date/Time: 4/27 1715

Relinquished by/Company : (Signature) — Date/Time: 4/28 1700 — Received by/Company : (Signature) — Date/Time: 4/29/22 08:48

Relinquished by/Company : (Signature) — Date/Time: — Received by/Company : (Signature) — Date/Time:

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Profile/Line:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Container Count

115/175 D

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: T1069

Cooler 1 Temp Upon Receipt: 2.2 °C

Cooler 1 Therm Corr. Factor: +0.1 °C

Cooler 1 Corrected Temp: 2.3 °C

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page: of

Table of Contents

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

Company: Arcadis

Address: One Lincoln Center 110 West Fayette St.

Billing Information: Bill to NYSDEC

Report To: Chris. Kassel

Email To: Chris.Kassel@arcadis.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Northern Circuits

State: NY County/City: De Witt Time Zone Collected: PT MT CT ET

Phone: 315-992-9585

Email: Daniel.Meandro@arcadis.com

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected by (print): Don Meandro

Purchase Order #:

DW PWS ID #:

Collected by (signature):

Quote #:

DW Location Code #:

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold

Turnaround Date Required: Standard

RUSH: Next Day 2 Day 3 Day 4 Day Same Day 5 Day (Expedite Charges Apply)

Immediately Packed on Ice? [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	8260	1,4 Dioxane
MW-8D	GW	G	4-27-22	1617	-	-	-	5	X	X
TRIP BLANK	OT	-	-	-	-	-	-	2	X	
DUP-042722	GW	G	4-27-22	-	-	-	-	6	X	X

Customer Remarks/ Special Conditions/ Possible Hazards: 3 coolers

Type of Ice (Wet) (Blue) (Dry) (None)

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Lab Sample Temperature Info: Temp Blank Received: Y N NA; Therm ID #; Cooler 1 Temp Upon Receipt; Cooler 1 Therm Corr. Factor; Cooler 1 Corrected Temp; Comments:

Trip Blank Received: Y N NA; HCL MeOH TSP Other

Nonconformance(s): YES / NO; Page: of:

Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
	4-27-22 1715	PACE	4/27/22 1715
PACE	4/28 1700		4/29/22 10:40

Page 1 of 1

ALL-C-010-rev.00, 05Jul2018

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FedEx® Tracking

578925031351

ADD NICKNAME

Delivered
Tuesday, 5/3/2022 at 10:03 am

THIS IS 1 OF 8 PIECES



DELIVERED

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

MELVILLE, NY US

TO

EAST LONGMEADOW, MA US

MANAGE DELIVERY

8 Piece Shipment

TRACKING ID	STATUS	SHIP DATE	DELIVERY DATE	HANDLING PIECE UNITS	SHIPPER CITY, STATE	RECIPIENT CITY, STATE
578925031330 (master)	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031384	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031373	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031340	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031351	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Pace

Received By LP Date 5-3-22 Time 1003

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp -3 3, 2.6, 20, 2.4, 3.8

By Blank # _____ Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	28	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 16, 2022

Chris Kassel
Arcadis

,

RE: Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Dear Chris Kassel:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri for
Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Stephanie Fitzgerald, NYDEC
Mark A Flusche, Arcadis

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW2 **Lab ID: 70212974001** Collected: 04/28/22 09:35 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 15:49	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 15:49	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 15:49	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 15:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 15:49	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 15:49	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 15:49	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 15:49	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 15:49	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW2 **Lab ID: 70212974001** Collected: 04/28/22 09:35 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 15:49	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:49	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 15:49	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 15:49	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 15:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW1 **Lab ID: 70212974002** Collected: 04/28/22 10:55 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 16:08	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 16:08	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 16:08	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 16:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 16:08	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 16:08	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 16:08	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 16:08	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 16:08	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:08	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW1 **Lab ID: 70212974002** Collected: 04/28/22 10:55 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:08	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:08	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		05/10/22 16:08	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 16:08	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW4 **Lab ID: 70212974003** Collected: 04/28/22 12:20 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	**3.0**	ug/L	1.0	1		05/10/22 16:28	76-13-1	
1,1-Dichloroethane	**1.5**	ug/L	1.0	1		05/10/22 16:28	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 16:28	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 16:28	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 16:28	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 16:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 16:28	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 16:28	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 16:28	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 16:28	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 16:28	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:28	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW4 **Lab ID: 70212974003** Collected: 04/28/22 12:20 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:28	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:28	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 16:28	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 16:28	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6S **Lab ID: 70212974004** Collected: 04/28/22 14:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 16:47	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 16:47	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 16:47	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 16:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 16:47	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 16:47	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 16:47	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 16:47	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 16:47	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 16:47	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 16:47	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	100-42-5	
Tetrachloroethene	**13.7**	ug/L	1.0	1		05/10/22 16:47	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	108-88-3	
Trichloroethene	**28.8**	ug/L	1.0	1		05/10/22 16:47	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 16:47	75-69-4	
Vinyl chloride	**1.0**	ug/L	1.0	1		05/10/22 16:47	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6S **Lab ID: 70212974004** Collected: 04/28/22 14:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 16:47	1330-20-7	
cis-1,2-Dichloroethene	**82.1**	ug/L	1.0	1		05/10/22 16:47	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 16:47	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 16:47	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 16:47	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6D **Lab ID: 70212974005** Collected: 04/28/22 15:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	**213**	ug/L	2.0	2		05/11/22 13:00	76-13-1	
1,1-Dichloroethane	**85.1**	ug/L	1.0	1		05/10/22 17:06	75-34-3	
1,1-Dichloroethene	**4.1**	ug/L	1.0	1		05/10/22 17:06	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:06	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 17:06	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:06	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 17:06	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:06	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:06	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:06	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	124-48-1	
Dichlorodifluoromethane	**217**	ug/L	2.0	2		05/11/22 13:00	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:06	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:06	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:06	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	100-42-5	
Tetrachloroethene	**143**	ug/L	1.0	1		05/10/22 17:06	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	108-88-3	
Trichloroethene	**23.5**	ug/L	1.0	1		05/10/22 17:06	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:06	75-69-4	
Vinyl chloride	**1.5**	ug/L	1.0	1		05/10/22 17:06	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: MW-6D **Lab ID: 70212974005** Collected: 04/28/22 15:45 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:06	1330-20-7	
cis-1,2-Dichloroethene	**18.7**	ug/L	1.0	1		05/10/22 17:06	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:06	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 17:06	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 17:06	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 17:06	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW3 **Lab ID: 70212974006** Collected: 04/28/22 16:50 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:25	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 17:25	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:25	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 17:25	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:25	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:25	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:25	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:25	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: HRP-MW3 **Lab ID: 70212974006** Collected: 04/28/22 16:50 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:25	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:25	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		05/10/22 17:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 17:25	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 17:25	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: TRIP BLANK **Lab ID: 70212974007** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 15:30	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 15:30	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 15:30	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 15:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 15:30	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 15:30	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 15:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 15:30	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 15:30	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:30	75-01-4	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: TRIP BLANK **Lab ID: 70212974007** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 15:30	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:30	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 15:30	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 15:30	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: DUP-042822 **Lab ID: 70212974008** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	76-13-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-35-4	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	120-82-1	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 17:45	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	106-46-7	
1,4-Dioxane (p-Dioxane)	**<100**	ug/L	100	1		05/10/22 17:45	123-91-1	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 17:45	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 17:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 17:45	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 17:45	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 17:45	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	110-82-7	v3
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	124-48-1	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-71-8	v3
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 17:45	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-20-9	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 17:45	1634-04-4	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-69-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 17:45	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Sample: DUP-042822 **Lab ID: 70212974008** Collected: 04/28/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 17:45	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 17:45	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 17:45	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/10/22 17:45	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/10/22 17:45	2037-26-5	

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QUALITY CONTROL DATA

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

QC Batch: 255955
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212974001, 70212974002, 70212974003, 70212974004, 70212974005, 70212974006, 70212974007, 70212974008

METHOD BLANK: 1293034
Matrix: Water
Associated Lab Samples: 70212974001, 70212974002, 70212974003, 70212974004, 70212974005, 70212974006, 70212974007, 70212974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/10/22 10:55	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,4-Dioxane (p-Dioxane)	ug/L	<100	100	05/10/22 10:55	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/10/22 10:55	
2-Hexanone	ug/L	<5.0	5.0	05/10/22 10:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/10/22 10:55	
Acetone	ug/L	<5.0	5.0	05/10/22 10:55	
Benzene	ug/L	<1.0	1.0	05/10/22 10:55	
Bromochloromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Bromodichloromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Bromoform	ug/L	<1.0	1.0	05/10/22 10:55	
Bromomethane	ug/L	<1.0	1.0	05/10/22 10:55	
Carbon disulfide	ug/L	<1.0	1.0	05/10/22 10:55	
Carbon tetrachloride	ug/L	<1.0	1.0	05/10/22 10:55	
Chlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
Chloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
Chloroform	ug/L	<1.0	1.0	05/10/22 10:55	
Chloromethane	ug/L	<1.0	1.0	05/10/22 10:55	v3
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/10/22 10:55	
Cyclohexane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Dibromochloromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Ethylbenzene	ug/L	<1.0	1.0	05/10/22 10:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/10/22 10:55	
Methyl acetate	ug/L	<1.0	1.0	05/10/22 10:55	

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(631)694-3040

QUALITY CONTROL DATA

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

METHOD BLANK: 1293034 Matrix: Water

Associated Lab Samples: 70212974001, 70212974002, 70212974003, 70212974004, 70212974005, 70212974006, 70212974007, 70212974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/10/22 10:55	
Methylcyclohexane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Methylene Chloride	ug/L	<1.0	1.0	05/10/22 10:55	
Styrene	ug/L	<1.0	1.0	05/10/22 10:55	
Tetrachloroethene	ug/L	<1.0	1.0	05/10/22 10:55	v3
Toluene	ug/L	<1.0	1.0	05/10/22 10:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/10/22 10:55	
Trichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Vinyl chloride	ug/L	<1.0	1.0	05/10/22 10:55	
Xylene (Total)	ug/L	<3.0	3.0	05/10/22 10:55	
1,2-Dichloroethane-d4 (S)	%	103	81-122	05/10/22 10:55	
4-Bromofluorobenzene (S)	%	98	79-118	05/10/22 10:55	
Toluene-d8 (S)	%	99	82-122	05/10/22 10:55	

LABORATORY CONTROL SAMPLE: 1293035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-127	
1,1,2-Trichloroethane	ug/L	50	52.1	104	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.3	93	54-133	
1,1-Dichloroethane	ug/L	50	49.0	98	72-126	
1,1-Dichloroethene	ug/L	50	48.2	96	66-133	
1,2,3-Trichlorobenzene	ug/L	50	48.4	97	50-143	
1,2,4-Trichlorobenzene	ug/L	50	47.9	96	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	46.0	92	47-133	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	81-123	
1,2-Dichlorobenzene	ug/L	50	48.5	97	80-117	
1,2-Dichloroethane	ug/L	50	54.2	108	69-134	
1,2-Dichloropropane	ug/L	50	49.4	99	75-125	
1,3-Dichlorobenzene	ug/L	50	47.4	95	82-116	
1,4-Dichlorobenzene	ug/L	50	48.1	96	80-117	
1,4-Dioxane (p-Dioxane)	ug/L	1250	1180	94	32-175	
2-Butanone (MEK)	ug/L	50	47.5	95	33-165	IH
2-Hexanone	ug/L	50	51.0	102	50-128	IH
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.9	106	62-131	v1
Acetone	ug/L	50	50.5	101	14-156	IH
Benzene	ug/L	50	51.0	102	78-117	
Bromochloromethane	ug/L	50	52.6	105	77-122	
Bromodichloromethane	ug/L	50	51.8	104	80-123	
Bromoform	ug/L	50	51.0	102	49-138	

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(631)694-3040

QUALITY CONTROL DATA

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

LABORATORY CONTROL SAMPLE: 1293035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	63.9	128	10-143	IH,v1
Carbon disulfide	ug/L	50	47.4	95	66-133	
Carbon tetrachloride	ug/L	50	43.9	88	64-135	
Chlorobenzene	ug/L	50	49.2	98	79-117	
Chloroethane	ug/L	50	42.4	85	31-156	
Chloroform	ug/L	50	53.5	107	79-123	
Chloromethane	ug/L	50	35.7	71	39-116	v3
cis-1,2-Dichloroethene	ug/L	50	50.8	102	77-125	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	78-131	
Cyclohexane	ug/L	50	36.7	73	53-130	v3
Dibromochloromethane	ug/L	50	50.0	100	65-123	
Dichlorodifluoromethane	ug/L	50	33.8	68	13-149	IH,v3
Ethylbenzene	ug/L	50	44.8	90	79-115	
Isopropylbenzene (Cumene)	ug/L	50	40.7	81	74-118	
Methyl acetate	ug/L	50	53.7	107	10-214	
Methyl-tert-butyl ether	ug/L	50	50.7	101	69-118	
Methylcyclohexane	ug/L	50	34.3	69	63-124	v3
Methylene Chloride	ug/L	50	49.9	100	67-123	
Styrene	ug/L	50	49.7	99	82-121	
Tetrachloroethene	ug/L	50	32.7	65	65-120	v3
Toluene	ug/L	50	50.9	102	80-114	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	74-123	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	73-135	
Trichloroethene	ug/L	50	48.3	97	79-115	
Trichlorofluoromethane	ug/L	50	49.5	99	51-136	
Vinyl chloride	ug/L	50	42.0	84	49-118	
Xylene (Total)	ug/L	150	137	92	80-118	
1,2-Dichloroethane-d4 (S)	%			100	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			98	82-122	

SAMPLE DUPLICATE: 1293217

Parameter	Units	70213002002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,4-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

SAMPLE DUPLICATE: 1293217

Parameter	Units	70213002002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dioxane (p-Dioxane)	ug/L	<100	<100		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		v3
cis-1,2-Dichloroethene	ug/L	2.7	2.7	1	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Cyclohexane	ug/L	<1.0	<1.0		v3
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		v3
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methyl acetate	ug/L	<1.0	<1.0		
Methyl-tert-butyl ether	ug/L	<1.0	<1.0		
Methylcyclohexane	ug/L	<1.0	<1.0		v3
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		v3
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	11.2	12.0	7	
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	102	104		
4-Bromofluorobenzene (S)	%	98	97		
Toluene-d8 (S)	%	99	96		

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QUALIFIERS

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NORTHERN CURCUITS #734124 4/28
Pace Project No.: 70212974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212974001	**HRP-MW2**	EPA 8260C/5030C	255955		
70212974002	**HRP-MW1**	EPA 8260C/5030C	255955		
70212974003	**HRP-MW4**	EPA 8260C/5030C	255955		
70212974004	**MW-6S**	EPA 8260C/5030C	255955		
70212974005	**MW-6D**	EPA 8260C/5030C	255955		
70212974006	**HRP-MW3**	EPA 8260C/5030C	255955		
70212974007	**TRIP BLANK**	EPA 8260C/5030C	255955		
70212974008	**DUP-042822**	EPA 8260C/5030C	255955		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affi... **WO# : 70212974** MTJL Log-in

ALL S

70212974

Company: ArcAdis	**Billing Information:** Bill NYSDEC
Address: One Lincoln Center 110 West Fayette St. Syracuse NY	
Report To: Chris Kassel	**Email To:** Chris.Kassel@arcadis.com
Copy To:	**Site Collection Info/Address:** 8 Adler Dr.
Customer Project Name/Number:	State: NY County/City: De Witt Time Zone Collected: / PT MT CT ET
Phone: 315-992-0568 Email: Daniel.Meandro@arcadis.com	Site/Facility ID #:
Collected by (print): Dan Meandro	Purchase Order #:
Collected by (signature): Dan Meandro	Quote #:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive _____ [ ] Hold _____	Turnaround Date Required: Standard
RUSH: Next Day 2 Day 3 Day 4 Day 5 Day Same Day (Expedite Charges Apply)	Immediately Packed on Ice? [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] No
	Analysis:
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #:
	DW Location Code #:

Container Preservative Type: 3 U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

LS1

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: 8260	Analyses: 8270 SIM (1,4 Dioxane)	LAB USE ONLY: Lab Sample # / Comments
HRP-MW2	GW	G	4-28-22	0935	/	/		5	X	X	
HRP-MW1	GW	G	4-28-22	1055	/	/		5	X	X	
HRP-MW4	GW	G	4-28-22	1220	/	/		5	X	X	
MW-65	GW	G	4-28-22	1445	/	/		5	X	X	
MW-60	GW	G	4-28-22	1545	/	/		5	X	X	
HRP-MW3	GW	G	4-28-22	1650	/	/		5	X	X	
TRIP BLANK	DI	/	/	/	/	/		2	X		
DUP-042822	GW	G	4-28-22	/	/	/		5	X	X	

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB Profile/Line:

Customer Remarks/ Special Conditions/ Possible Hazards:

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

Packing Material Used: Bubble wrap

LAB Tracking #: 7767 3366 3109

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: IR04

Cooler 1 Temp Upon Receipt: 0.7 oC

Cooler 1 Therm Corr. Factor: 0.1 oC

Cooler 1 Corrected Temp: 0.8 oC

Comments:

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page _____ of _____

Relinquished by/Company : (Signature)	Date/Time:	Received by/Company : (Signature)	Date/Time:
Dan Meandro ANA	4-28-22 1720	PACE	4/28/22 1720
PACE	4/29/22 1700		4/29/22 1100

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 13, 2022

Lea Sherman
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: Northern Circuit #734124 4/28
Client Job Number:
Project Number: 70212974
Laboratory Work Order Number: 22E0091

Enclosed are results of analyses for samples as received by the laboratory on May 3, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Lea Sherman

REPORT DATE: 5/13/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70212974

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22E0091

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Northern Circuit #734124 4/28

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HRP-MW2	22E0091-01	Water		SW-846 8270E	
HRP-MW1	22E0091-02	Water		SW-846 8270E	
HRP-MW4	22E0091-03	Water		SW-846 8270E	
MW-6S	22E0091-04	Water		SW-846 8270E	
MW-6D	22E0091-05	Water		SW-846 8270E	
HRP-MW3	22E0091-06	Water		SW-846 8270E	
DUP-042822	22E0091-07	Water		SW-846 8270E	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW2 Sampled: 4/28/2022 09:35

Sample ID: 22E0091-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.33	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 21:58	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.6	15-110		5/12/22 21:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW1 Sampled: 4/28/2022 10:55

Sample ID: 22E0091-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:18	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.6	15-110		5/12/22 22:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW4 Sampled: 4/28/2022 12:20

Sample ID: 22E0091-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.27	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:37	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.8	15-110		5/12/22 22:37

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Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: MW-6S Sampled: 4/28/2022 14:45

Sample ID: 22E0091-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.41	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 22:56	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.7	15-110		5/12/22 22:56

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Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: MW-6D Sampled: 4/28/2022 15:45

Sample ID: 22E0091-05

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.6	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:16	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.3	15-110		5/12/22 23:16

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Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: HRP-MW3 Sampled: 4/28/2022 16:50

Sample ID: 22E0091-06

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:35	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	20.2	15-110		5/12/22 23:35

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Project Location: Northern Circuit #734124 4/28 Sample Description: Work Order: 22E0091

Date Received: 5/3/2022

Field Sample #: DUP-042822 Sampled: 4/28/2022 00:00

Sample ID: 22E0091-07

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270E	5/4/22	5/12/22 23:54	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	20.7	15-110		5/12/22 23:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22E0091-01 [HRP-MW2]	B307529	1060	1.00	05/04/22
22E0091-02 [HRP-MW1]	B307529	1060	1.00	05/04/22
22E0091-03 [HRP-MW4]	B307529	1060	1.00	05/04/22
22E0091-04 [MW-6S]	B307529	1060	1.00	05/04/22
22E0091-05 [MW-6D]	B307529	1050	1.00	05/04/22
22E0091-06 [HRP-MW3]	B307529	1050	1.00	05/04/22
22E0091-07 [DUP-042822]	B307529	1050	1.00	05/04/22

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B307529 - SW-846 3510C										
Blank (B307529-BLK1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.38*		µg/L	10.0		23.8	15-110			
LCS (B307529-BS1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	10.1	0.20	µg/L	10.0		101	40-140			
Surrogate: 1,4-Dioxane-d8	*2.29*		µg/L	10.0		22.9	15-110			
LCS Dup (B307529-BSD1)				Prepared: 05/04/22 Analyzed: 05/09/22						
1,4-Dioxane	10.1	0.20	µg/L	10.0		101	40-140	0.267	30	
Surrogate: 1,4-Dioxane-d8	*2.29*		µg/L	10.0		22.9	15-110			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
1,4-Dioxane	NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22E0091

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: ☒ Yes ☐ No

Workorder: 70212974 **Workorder Name:** NORTHERN CURCUITS #734124 4/28 **Owner Received Date:** 4/30/2022 **Results Requested By:** 5/16/2022

Report To	Subcontract To
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis	LAB USE ONLY
1	HRP-MW2	PS	4/28/2022 09:35	70212974001	Water	1		
2	HRP-MW1	PS	4/28/2022 10:55	70212974002	Water	1		
3	HRP-MW4	PS	4/28/2022 12:20	70212974003	Water	1		
4	MW-6S	PS	4/28/2022 14:45	70212974004	Water	1		
5	MW-6D	PS	4/28/2022 15:45	70212974005	Water	1		
6	HRP-MW3	PS	4/28/2022 16:50	70212974006	Water	1		
7	DUP-042822	PS	4/28/2022 00:00	70212974008	Water	1		

Transfers	Released By	Date/Time	Received By	Date/Time
1	Sara Rivinius Pace LI	5/2/22 1800		5/3 1003
2				
3				

Comments

Cooler Temperature on Receipt 2.8 3.3°C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

LAB USE ONLY- Affi... ALL S...

WO#: 70212974

70212974

MTJL Log-in

Company: ArcAdis	Billing Information: Bill NYSDEC
Address: One Lincoln Center 110 West Fayette St. Syracuse NY	
Report To: Chris Kassel	Email To: Chris.Kassel@arcadis.com
Copy To:	Site Collection Info/Address: 8 Addr Dr.
Customer Project Name/Number:	State: NY County/City: DeWitt Time Zone Collected: PT MT CT ET
Phone: 315-992-0568 Email: Daniel.Meandro@arcadis.com	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected by (print): Dan Meandro	Purchase Order #: DW PWS ID #:
Collected by (signature): Dan Meandro	Quote #: DW Location Code #:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold	Turnaround Date Required: Standard RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)
	Immediately Packed on Ice? [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] No
	Analysis:

Container Preservative Type: 3 U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

LS1

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/ Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: 8260	8270 SIM (1,4 Dioxane)								LAB Profile/Line:
HRP-MW2	GW	G	4-28-22	0935	/	/		5	X	X								↓ LAB USE ONLY: ↓ Lab Sample # / Comments
HRP-MW1	GW	G	4-28-22	1055	/	/		5	X	X								
HRP-MW4	GW	G	4-28-22	1220	/	/		5	X	X								
MW-6S	GW	G	4-28-22	1445	/	/		5	X	X								
MW-6D	GW	G	4-28-22	1545	/	/		5	X	X								
HRP-MW3	GW	G	4-28-22	1650	/	/		5	X	X								
TRIP BLANK	DI	/	/	/	/	/		2	X									
DUP-042822	GW	G	4-28-22	/	/	/		5	X	X								

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

Customer Remarks/ Special Conditions/ Possible Hazards:

Type of Ice Used: Wet [X] Blue [ ] Dry [ ] None [ ]

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Bubble wrap

LAB Tracking #: 7767 3366 2109

Radchem sample(s) screened: (<500 cpm): [ ] Y [ ] N [ ] NA

Samples received via: [X] FEDEX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prelogin:

PM:

PB:

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: IR01

Cooler 1 Temp Upon Receipt: 0.7 oC

Cooler 1 Therm Corr. Factor: 0.1 oC

Cooler 1 Corrected Temp: 0.8 oC

Comments:

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s): YES / NO

Page: of

Relinquished by/Company: (Signature) Dan Meandro ANA	Date/Time: 4-28-22 1720	Received by/Company: (Signature) Tom PACE	Date/Time: 4/28/22 1720
Relinquished by/Company: (Signature) Tom PACE	Date/Time: 4/29/22 1700	Received by/Company: (Signature)	Date/Time: 4/30/22 1100
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

ALL-C-010-rev.00, 05Jul2018

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[redacted]

FedEx® Tracking

578925031373

ADD NICKNAME

Delivered
Tuesday, 5/3/2022 at 10:03 am

THIS IS 1 OF 8 PIECES

DELIVERED

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
MELVILLE, NY US	EAST LONGMEADOW, MA US

MANAGE DELIVERY

8 Piece Shipment

TRACKING ID	STATUS	SHIP DATE	DELIVERY DATE	HANDLING PIECE UNITS	SHIPPER CITY, STATE	RECIPIENT CITY, STATE
578925031330 (master)	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031384	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031373	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031340	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA
578925031351	Delivered	5/2/22	5/3/22	0	MELVILLE NY	EAST LONGMEADOW MA

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Pace

Received By LR Date 5-3-22 Time 1603

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.8, 3.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name F
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	14	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: ☒ Yes ☐ No

Workorder: 70212974 **Workorder Name:** NORTHERN CURCUITS #734124 4/28 **Owner Received Date:** 4/30/2022 **Results Requested By:** 5/16/2022

Report To	Subcontract To
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 1, 4 Dioxane by 8270SIM												LAB USE ONLY
1	HRP-MW2	PS	4/28/2022 09:35	70212974001	Water	1						X												
2	HRP-MW1	PS	4/28/2022 10:55	70212974002	Water	1						X												
3	HRP-MW4	PS	4/28/2022 12:20	70212974003	Water	1						X												
4	MW-6S	PS	4/28/2022 14:45	70212974004	Water	1						X												
5	MW-6D	PS	4/28/2022 15:45	70212974005	Water	1						X												
6	HRP-MW3	PS	4/28/2022 16:50	70212974006	Water	1						X												
7	DUP-042822	PS	4/28/2022 00:00	70212974008	Water	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Comments

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

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