

**PRE-DESIGN INVESTIGATION REPORT
FORMER OSSINING WORKS SITE, OPERABLE UNIT No. 1
OSSINING, WESTCHESTER COUNTY, NEW YORK
SITE NO. 360172**



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August 2024

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Certification

I, Matthew S Hysell, P.E. certify that I am currently a New York State registered professional engineer as defined in Title 6 of the New York Codes, Rules, and Regulations Part 375 and that this *Pre-Design Investigation 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 *PDI Work Plan* and any DER-approved modifications. Based on my inquiry of the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.



A handwritten signature in blue ink that reads "Matthew S Hysell". The signature is written in a cursive style and is positioned above a horizontal line.

Matthew S Hysell, P.E.

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Contents

Acronyms and Abbreviations..... iv

1 Introduction..... 1

1.1 Objective and Scope 1

1.2 Site Background 1

1.2.1 Location and Physical Setting..... 1

1.2.2 Historical Site Operations..... 3

1.3 OU-1 Characterization 4

1.3.1 Geology..... 4

1.3.2 Hydrogeology..... 4

1.3.3 Nature and Extent of Impacts 4

1.3.3.1 Distribution of Visual Impacts and NAPL 5

1.3.3.2 Soil Quality.....5

1.3.3.3 Groundwater Quality.....6

1.3.3.4 Sediment Quality 6

1.4 Recommended Remedy 7

1.5 Phase II ESA Results..... 8

1.5.1 Soil 8

1.5.2 Groundwater 8

1.6 Report Organization 9

2 PDI Field Activities 10

2.1 Mobilization and Utility Clearance 10

2.2 Soil Borings..... 11

2.3 Geotechnical Test Pitting..... 11

2.4 Surface Soil Sampling..... 12

2.5 Survey..... 12

2.6 Community Air Monitoring 13

2.7 IDW Management..... 13

3 PDI Results..... 14

3.1 Subsurface Soil Sample Results..... 14

3.1.1 Field Observations 14

3.1.2 Subsurface Soil Sampling Results 14

3.1.2.1	TCL VOCs.....	15
3.1.2.2	TCL SVOCs	15
3.2	Geotechnical Test Pit Results	16
3.3	Surface Soil Sample Results	17
3.3.1	VOCs	18
3.3.2	SVOCs	18
3.3.3	Inorganics.....	18
4	Recommendations and Path Forward	19
4.1	ISS Treatment and Soil Excavation Limits	19
4.2	Retaining Wall Support	20
4.3	Undeveloped Eastern Portion of the OU-1-DPW Property	20
5	References	21

Tables

Table 1	Subsurface Soil Sample Volatile Organic Compound Analytical Results
Table 2	Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Table 3	Surface Soil Sample Volatile Organic Compound Analytical Results
Table 4	Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Table 5	Surface Soil Sample Inorganic Analytical Results

Figures

Figure 1	Site Location Map
Figure 2	Site Map with Former MGP Structures and RI Sampling Locations
Figure 3	PDI Soil Sampling and Test Pit Locations
Figure 4	NAPL Observations
Figure 5	Subsurface Soil BTEX
Figure 6	Subsurface Soil PAHs
Figure 7	Updated ISS Treatment and Soil Excavation Limits

Appendices

Appendix A	Boring Logs
Appendix B	Test Pit Logs
Appendix C	Borbas Surveying & Mapping, LLC Survey Map
Appendix D	CAMP Data
Appendix E	Waste Characterization Analytical Reports
Appendix F	Waste Disposal Documentation
Appendix G	Data Usability Summary Reports

Acronyms and Abbreviations

AAR	Alternatives Analysis Report
AMSL	above mean sea level
ASP	Analytical Services Protocol
Arcadis	Arcadis of New York, Inc.
AWQS	Ambient Water Quality Standards
bgs	below grade surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAMP	Community Air Monitoring Plan
COCs	constituents of concern
Con Edison	Consolidated Edison Company of New York, Inc.
CY	cubic yards
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ESA	Environmental Site Assessment
GTP	geotechnical test pit
I/C/R	ignitability, reactivity, and corrosivity
IDW	investigation-derived waste
ISS	in-situ soil stabilization
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
ODPW	Ossining Department of Public Works
OU-1-DPW Property	Operable Unit No. 1
OU-2	Operable Unit No. 2
OU-3	Operable Unit No. 3
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
Phase II ESA	Phase II Environmental Site Assessment
PDI	pre-design investigation

Pre-Design Investigation Report

PDI Work Plan	pre-design investigation work plan
PPE	personal protective equipment
RCRA	Resource Conservation and Recovery Act
RETEC	RETEC Group, Inc.
RI	remedial investigation
RRSCOs	restricted-residential soil cleanup objectives
SCOs	soil cleanup objectives
SESI	SESI Consulting Engineers
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
WB 30 Water Street	WB 30 Water Street, LLC
WBP	WBP Development LLC
USEPA	United States Environmental Protection Agency

1 Introduction

This Pre-Design Investigation (PDI) Report was prepared by Arcadis of New York, Inc (Arcadis) on behalf of Consolidated Edison Company of New York, Inc. (Con Edison) to document the completed PDI activities and results for portions of Operable Unit No. 1 (OU-1) of the former Ossining Works site (site) located in Ossining, New York. The location of the site is shown on Figure 1. The former Ossining Works site is identified as New York State Department of Environmental Conservation (NYSDEC) Site No. 360172 and is currently being addressed under an existing multi-site Consent Order (Consent Order No. 0.20180516-519) between Con Edison and the NYSDEC. The PDI was also conducted in anticipation of the NYSDEC entering into a Brownfield Cleanup Agreement (BCA) with WB 30 Water Street, LLC (WB 30 Water Street) to facilitate redevelopment of portions of OU-1 as discussed below.

The PDI activities for the site were conducted in accordance with the NYSDEC-approved Pre-Design Investigation Work Plan (PDI Work Plan) prepared by Con Edison (September 2023). The PDI activities focused on a portion of OU-1 located south of Central Avenue which is owned by the Village of Ossining and was primarily utilized by the Village of Ossining Department of Public Works (the OU-1-DPW Property).

1.1 Objective and Scope

The overall objective of the PDI was to obtain data to support the remedial design for the recommended remedy as presented in the NYSDEC-approved OU-1 Alternatives Analysis Report (OU-1 AAR; Arcadis 2023) and to be documented in a forthcoming NYSDEC- Decision Document for the OU-1 Property. PDI field activities addressed the following objectives:

- Further define the limits of in-situ soil stabilization (ISS) treatment activities that will be implemented to address manufactured gas plant (MGP)-related residuals in subsurface soil at the site.
- Determine the extent, if any, of MGP-related impacts that may be present in two former gas holders in the southwest portion of the OU-1-DPW property (which were not accessible during previous investigation activities) and a former gas holder in the northern portion of the OU-1-DPW property.
- Investigate the construction and condition of a retaining wall located along the south bank of Kill Brook.
- Evaluate chemical constituents in surface soil in the undeveloped eastern portion of the OU-1-DPW Property.

Relevant site background information is presented below.

1.2 Site Background

The location and physical setting of the site is described below, followed by a summary of relevant historical information related to the PDI activities.

1.2.1 Location and Physical Setting

As shown on Figures 1 and 2, the site is located on an eastern escarpment of the Hudson River valley and is bisected by Kill Brook, which flows west-southwest towards the Hudson River. The site consists of three operable units, including OU-1, Operable Unit No. 2 (OU-2), and Operable Unit No. 3 (OU-3) located in Ossining, Westchester County, New York.

The layout of OU-1 is presented on Figure 2. OU-1 consists of two parcels with a total combined size of approximately 3.95 acres. The largest parcel consists of an approximately 3.45-acre area OU-1 DPW Property which is bordered by Central Avenue to the north, Main Street to the south, and North Water Street to the west. The second parcel consists of a 0.5-acre Con Edison-owned electrical substation located north of Central Avenue near the intersection with North Water Street. OU-1-DPW Property includes the former MGP operations area as shown by the historical MGP-related structures depicted on Figure 2. All former structures to the south of Kill Brook have been demolished to grade. An Ossining Department of Public Works former vehicle maintenance and storage building is located on the portion of the OU-1 DPW Property north of Kill Brook. OU-1-DPW Property is mostly surrounded by fence, except the area east of the former MGP operation which is wooded. The eastern portion of the OU-1 DPW Property is mostly enclosed by steep-nearly vertical bedrock walls.

The Village of Ossining has partnered with WB 30 Water Street to redevelop the OU-1-DPW Property. The planned redevelopment includes construction of an aboveground parking garage on the north side of Kill Brook and a mixed-use, multi-story building on the south side of the Brook. WB 30 Water Street plans to enter into a BCA with the NYSDEC to further investigate and remediate the OU-1-DPW Property. To support the BCA application, WB 30 Water Street's consultant, SESI Consulting Engineers (SESI), completed a total of 15 additional soil borings across the site during June 2021 as part of a Phase 2 Environmental Site Assessment (Phase II ESA) to provide sample coverage in areas that were not previously sampled. The results for the SESI Phase II ESA are summarized in Section 1.5.

OU-2 is located hydraulically downgradient to the west of the OU-1-DPW Property and consists of an approximately 6-acre area. OU-2 is bordered by Quimby Street to the north, Secor Road and South Water Street to the south, North Water Street to the east, and Westerly Road to the west, as shown on Figure 2. The western portion of OU-2 is currently used as an asphalt-paved commuter parking lot for the Metropolitan Transit Authority (MTA). The western portion of OU-2 also includes several commercial and residential properties. The tracks and right-of-way for the Metro-North Railroad extend along the western portion of OU-2. The Ossining Metro-North Rail Station and passenger platforms are located along Secor Road in the southwest portion of OU-2. No historical MGP operations were conducted at OU-2 and identified MGP-related impacts are associated with off-site migration from the OU-1-DPW Property.

OU-3 consists of an approximately 4.5-acre parcel located west and downgradient of OU-2 that is bordered by Kill Brook to the north, a wood pier/walkway to the south, Westerly Road to the east and the Hudson River to the west. The Harbor Square Condominium, a restaurant, and an associated parking lot are located on OU-3. Investigation activities associated with OU-3 are covered under a separate voluntary agreement with NYSDEC (BCP Site No. C360091) and have mostly been performed by the consultant for the current owner. The Harbor Square Property owner has constructed a slurry wall to contain and manage MGP impacts in OU-3.

Surface elevations at OU-1-DPW Property range from approximately 15 feet above mean sea level (AMSL) along North Water Street to approximately 50 feet AMSL along Main Street and at the former gas holder property north of Central Avenue. OU-2 and OU-3 gently slope towards the Hudson River with ground surface elevations ranging from approximately 5 to 9 feet AMSL. The majority of site surface drainage flows to Kill Brook (either directly or via-catch basins), then to the Hudson River which is located approximately 1,000 feet west of the OU-1-DPW Property. Kill Brook flows at a surface elevation which is approximately 5 feet lower than the surrounding areas. Most areas of the site are generally asphalt-paved and/or have a compacted gravel surface covering. The eastern-most portion of OU-1-DPW Property is undeveloped and wooded.

1.2.2 Historical Site Operations

Information on historical MGP operations at the site was obtained from the document entitled Historical Investigation Report – Former Ossining Works MGP Site (Site #V00568) prepared by The RETEC Group, Inc. (RETEC, 2003). Information presented in the RETEC document includes a review of available Sanborn Fire Insurance Maps for the years 1886, 1891, 1897, 1903, 1911, 1924, 1931, 1942, 1949, and 1971, current and historical use of the site and adjacent properties, and potential environmental issues associated with these current and historical activities. Historical MGP structures are shown on Figure 2.

Historical MGP operations were conducted at the site from 1855 until 1929. Initially, the site was operated by Sing Sing Gas Manufacturing Company and utilized for the production of coal gas. The RETEC report indicates that the MGP operation initially consisted of a single gas holder as well as a production building. The initial property boundaries included the central portion of OU-1-DPW Property, south of Kill Brook.

The 1886 Sanborn map shows the initial MGP operations, including the gas production building (consisting of a purifying room and retorts), a coal house, a storage building, and one gas holder. Additional property west of the initial plant area was acquired in 1860, with an eastern expansion in 1867. By 1897, the MGP production area included a second gas holder, a gas production building, and coal houses. The storage building was not shown on the 1897 Sanborn map.

By 1901, ownership of the MGP transferred to the Ossining Light, Heat, and Power Company. In 1902, the MGP began producing carbureted water gas, using the Lowe carbureted water gas method, in conjunction with coal gas production. By 1904, MGP operations transitioned to carbureted water gas production exclusively. In 1905 the Northern Westchester Lighting Company assumed ownership of the MGP. Ownership was later incorporated under control of the Consolidated Gas Company of New York (predecessor of Con Edison). Additional land was acquired by 1906 and again in 1923 to expand the plant property south to Main Street.

In 1911, the retorts were replaced by generators and a third gas holder (above-ground with a capacity of 100,000 cubic feet) was added to the western portion of the property. The original gas holder west of the generator house was converted to an oil tank with a capacity of 144,000 gallons.

A 500,000 cubic foot gas holder was constructed on the parcel north of Central Avenue in 1921. Before construction of the gas holder, the land north of Central Avenue had been utilized as a lumber yard. By 1924, an additional oil tank, purifying tank, and meter house had been added south of Kill Brook in present day OU-1-DPW Property. The 1931 Sanborn Map indicates that oil tanks and a storage building were constructed on the northern parcel alongside the gas holder. A site photograph from circa 1930 also shows a large oil tank and two smaller tanks in the area north of Kill Brook and south of Central Avenue.

MGP operations at the site produced approximately 9 million cubic feet to 140 million cubic feet of manufactured gas per year, operating continuously until 1929. After 1926, production decreased until the plant was placed on stand-by status in 1930. Records indicate that the former MGP was retired from service in 1943.

The 1949 Sanborn Map indicates that the western-most gas holder, oil tank, meter room, storage building, and two purifying tanks were removed from the site. The oil tanks and former buildings north of Kill Brook were also removed and the area is labeled vacant.

The 1971 Sanborn Map indicates that the large gas holder located north of Kill Brook was removed and the MGP buildings are labeled as ODPW buildings and utilized for truck storage/repair and general storage.

1.3 OU-1 Characterization

This section presents an overall site characterization and a summary of the nature and extent of impacted media at the OU-1-DPW Property based on the Remedial Investigation Report (RI Report, Arcadis 2020a). The site characterization consists of an overview of the site geology and hydrogeology, and a summary of the nature and extent of identified impacts for OU-1-DPW Property.

1.3.1 Geology

A geologic cross-section location map and associated geologic cross-sections are provided in the RI Report and in the OU-1 AAR. The OU-1-DPW Property is underlain by three principal stratigraphic units: fill, sand & gravel, and bedrock (in descending order from the ground surface). The character of these stratigraphic units is briefly described below:

- **Fill** – The fill unit was likely deposited and reworked as a result of the historical MGP operations at OU-1-DPW Property. The fill unit consists of fine to coarse sand, with varying amounts of unsorted angular gravel and lesser amounts of silt, concrete, brick, wood, slag, coal, metal and/or glass. The thickness of this unit varies from approximately 3 to 15 feet. The water table is generally found within this unit.
- **Sand & Gravel** – The sand and gravel appears to be continuous across OU-1-DPW Property, with the exception easternmost portion of OU-1. The sand and gravel unit generally consists of a relatively loose dark gray unsorted sand and unsorted gravel with lesser amounts of silt, cobbles and mica. The thickness of this unit increases east to west from non-present to over 30 feet.
- **Bedrock** – The bedrock unit is comprised of metamorphic Schist. Bedrock is encountered at depths ranging from 15 feet below grade to greater than 40 feet below grade dipping steeply toward the Hudson River.

1.3.2 Hydrogeology

Both shallow and deep overburden groundwater in OU-1-DPW Property flow towards the Hudson River. The water table across OU-1-DPW Property is typically found within the fill materials at depths ranging from approximately 6 feet below grade to 16 feet below grade. The hydraulic conductivity of the fill unit and the underlying sand and gravel are similar (ranging from 0.8 to 8 feet/day) and therefore, these units can be considered the same unit with regard to hydraulic characteristics (i.e., same hydrostratigraphic unit). A shallow groundwater contour map (prepared using water-level data collected on April 3, 2012) is presented in the RI Report and the OU-1 AAR.

1.3.3 Nature and Extent of Impacts

Manufactured gas-production byproducts encountered at former MGP sites typically consist of coal tar and gas purifier waste. Coal tar is frequently encountered as non-aqueous phase liquid (NAPL). Principal components of coal tar that are routinely analyzed for at MGP sites are benzene, toluene, ethylbenzene, and xylene (BTEX) compounds, which are volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs), which are semi-volatile organic compounds (SVOCs). Gas purifier waste often contains cyanide and as such, total and free cyanide analyses are typically analyzed during investigations of MGP sites. As detailed below, coal tar, BTEX, and PAHs were identified as the constituents of concern (COCs) for the OU-1-DPW Property. The following

subsections present a summary of the nature and extent of MGP-related environmental impacts identified for OU-1-DPW Property based on these COCs and the presence of coal tar NAPL.

1.3.3.1 Distribution of Visual Impacts and NAPL

NAPL is the most frequently encountered environmental impact resulting from the former MGP operations at OU-1-DPW Property. Evidence of visible NAPL (i.e., NAPL in quantities greater than sheens) is generally observed in the south-central portion of OU-1-DPW Property within the sand and gravel unit at depths varying from 1.6 feet below grade to 26.8 feet below grade. Visible NAPL was encountered at 12 of the 19 soil borings/monitoring wells (i.e., MW-04, MW-05, SB-04, SB-05, SB-07, SB-18, SB-18A, SB-19, SB-20, SB-24, SB-52 and SB 53). NAPL was observed in the saturated zone in a majority of the locations, with the exception of TP-01, SB-07, SB-18, SB-20, and SB-52, where NAPL was observed only in the unsaturated zone (NAPL was observed in both the saturated zone and the unsaturated zones at SB-05 and SB-19). No evidence of NAPL was observed at the property currently occupied by the Con Edison-owned electrical substation north of Central Avenue. Forensic fingerprint analyses of one soil sample (from SB-19) indicates carbureted water gas as a potential hydrocarbon source. NAPL observations are shown on the Geologic Cross-Sections and NAPL in Subsurface Soil figures presented in the RI and the OU-1 AAR.

1.3.3.2 Soil Quality

BTEX compounds, PAHs, and inorganic constituents were detected in several of the soil samples collected as part of the RIs. Subsurface soil analytical results were compared to restricted-residential and commercial use soil cleanup objectives (SCOs) and SCOs for protection of groundwater presented in 6 NYCRR Part 375-6. The restricted-residential SCOs are applicable to OU-1-DPW Property based on the current and anticipated future site use. The SCOs for the protection of groundwater are also potentially applicable because Kill Brook is located within OU-1-DPW Property. The greatest concentrations of BTEX and PAHs were generally detected in soil samples collected from locations where visual impacts were observed. Soil impacts are distributed as follows:

- BTEX concentrations identified in soil samples collected at OU-1-DPW Property are shown in the RI Report and the AAR. Individual BTEX compounds were detected at concentrations exceeding the SCOs for the protection of groundwater in 12 of 57 subsurface soil samples collected from 26 locations. A total of 4 subsurface soil samples contained individual BTEX compounds at concentrations exceeding restricted-residential SCOs and no subsurface soil samples contained individual BTEX compounds at concentrations exceeding commercial SCOs.
- PAH concentrations identified in soil samples collected at OU-1-DPW Property are shown in the RI Report and the AAR. Individual PAHs were detected at concentrations exceeding SCOs for the protection of groundwater and at concentrations exceeding the restricted-residential use SCOs in 31 of 57 subsurface soil samples collected from 26 locations. A total of 29 soil samples contained individual PAH compounds at concentrations exceeding the commercial use SCOs.
- Cyanide was identified at concentrations exceeding the restricted-residential and commercial use SCOs in one (1) subsurface soil sample collected from the 9- to 10-foot depth interval at boring SB-52. This boring location was in the area of the former purifiers. Cyanide is frequently associated with purifier waste impacted material. Cyanide was not detected at concentrations exceeding the SCOs in the remaining soil samples.

Five (5) additional inorganic constituents were detected at concentrations greater than applicable SCOs, including arsenic, barium, copper, lead, and mercury. These elevated concentrations of inorganics were attributed to historic and recent fill materials and/or background concentrations.

1.3.3.3 Groundwater Quality

Analytical results for groundwater samples collected during the RI were compared to the Class GA groundwater quality standards/guidance values presented in the NYSDEC's Division of Water, Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Groundwater Effluent Limitations (TOGS 1.1.1) (NYSDEC, 1998). Analytical results indicated the following:

- BTEX concentrations identified in groundwater samples collected from monitoring wells located at OU-1-DPW Property are shown in the RI Report and the AAR. Individual BTEX compounds were detected at concentrations exceeding the NYSDEC standards/guidance values in groundwater samples collected at monitoring wells MW-04 and MW-06.
- PAH compounds identified in groundwater samples collected from monitoring wells located at OU-1-DPW Property are shown in the RI Report and the AAR. Individual PAH compounds were detected at concentrations exceeding the NYSDEC standards/ guidance values in groundwater samples collected at monitoring wells MW-03, MW-04, and MW-06.
- Total cyanide was not detected at concentrations exceeding the groundwater quality standards at any of the monitoring well locations.

Iron and sodium were detected at concentrations exceeding the groundwater quality standards in each of the groundwater samples collected from MW-03, MW-04, and MW-06. Manganese was also detected at concentrations exceeding the groundwater quality standards in a groundwater sample collected from MW-6. Groundwater exceedances for iron, sodium, and manganese detections were attributed to naturally occurring background conditions.

1.3.3.4 Sediment Quality

Analytical results for individual BTEX compounds and total PAHs were compared to sediment guidance values (SGVs) presented in the NYSDEC Division of Fish, Wildlife, and Marine Resources guidance document entitled *Screening and Assessment of Contaminated Sediment* (CP-60) (NYSDEC, June 2014). The sediment results were compared to the NYSDEC SGVs for Class A through Class C water. According to the NYSDEC Environmental Resource Mapper, the portion of Kill Brook (also known as Sing Sing Kill) that flows through OU-1 is a Class C freshwater system. Per the instructions in the NYSDEC guidance, the sediment results were also compared to the USEPA PAH SGVs. Sediment impacts are distributed as follows:

- Individual BTEX compounds were not detected at concentrations exceeding the NYSDEC CP-60 criteria in any sediment sample collected at Kill Brook.
- PAH concentrations identified in sediment samples collected from the reach of Kill Brook that flows through OU-1 are shown in the Ri Report and the AAR. Total PAHs in surface sediment samples were below the NYSDEC Class A SGV. Total PAHs in subsurface sediment samples collected at SS-06 and SS-07 exceeded the NYSDEC Class A SGV and were well below the Class C SGV. Individual PAH concentrations were also below the USEPA PAH SGVs, except for phenanthrene and pyrene in the 6- to 12-inch depth interval at SS-07.

1.4 Recommended Remedy

Con Edison initially submitted the OU-1 AAR prepared to the NYSDEC in December 2020 (Arcadis 2020). The OU-1 AAR identified and evaluated potential remedial alternatives for the OU-1-DPW Property in a manner consistent with NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) (NYSDEC, 2010).

The remedial action approach for the recommended alternative (Alternative 3) presented in the OU-1 AAR includes removal of soil exceeding NYSDEC Part 375-6 restricted residential soil cleanup objectives (SCOs) to a depth of 5 feet below ground surface (bgs) followed by in-situ soil stabilization (ISS) of soil containing significant quantities of NAPL to a depth of 34 feet bgs. To identify soil containing significant quantities of NAPL, Arcadis screened soil boring logs for visual observations of potentially mobile NAPL (focusing on NAPL quantities exceeding reported blebs and/or sheens) and identified soil samples with analytical results for total PAHs and total BTEX exceeding 500 ppm and 10 ppm, respectively. Soil samples exceeding 10 ppm total BTEX which did not contain potential mobile NAPL were not included in the proposed ISS limits for Alternative 3.

The recommended remedy proposed in the OU-1 AAR consists of the following components:

- Excavating approximately 2,830 cubic yards (CY) of shallow subsurface material (to depths of up to 5 feet bgs) to address soil containing constituents of concern (COCs) at concentrations greater than New York Codes, Rules and Regulations (NYCRR) Part 375-6 restricted-residential soil cleanup objectives (RRSCOs) and/or significant quantities of non-aqueous phase liquids (NAPL) or to remove shallow obstructions and allow for material bulking during ISS treatment. Proposed soil excavation limits and depths from the OU-1 AAR are shown on Figure 3.
- Implementing ISS treatment to address approximately 5,890 CY of subsurface soil containing significant quantities of NAPL to a depth of up to 34 bgs. Proposed ISS treatment limits and depths from the OU-1 AAR are shown on Figure 3.
- Installing NAPL recovery wells and implementing a NAPL recovery program.
- Installing groundwater monitoring wells and conducting long-term groundwater/NAPL monitoring.
- Establishing institutional controls.
- Developing a Site Management Plan (SMP).

NYSDEC comments on the OU-1 AAR were transmitted to Con Edison in a September 30, 2022 letter. Among other comments, the NYSDEC requested that Con Edison expand the footprint of the ISS treatment area to include several borings where MGP-impacts were identified in RI soil borings, investigate two former gas holders in the southwest portion of the OU-1-DPW Property (which were inaccessible during the RI activities), and investigate one gasholder located on the portion of the OU-1-DPW Property north of Kill Brook. NYSDEC comments on the OU-1 AAR were discussed during a February 7, 2023 conference call between personnel from the NYSDEC, Con Edison, and Arcadis. Con Edison's responses to NYSDEC comments and a revised OU-1 AAR were subsequently submitted to the NYSDEC during March 2023 (Arcadis 2023). In the response letter, Con Edison indicated that PDI efforts would be implemented to determine the final soil excavation and ISS treatment limits and to evaluate areas that were previously inaccessible during the RI. Con Edison also identified the need for subsurface investigation to evaluate the construction and condition of the retaining wall along the south bank of Kill Brook and agreed to investigate the potential presence of chemical constituents in surface soil in the undeveloped eastern portion of OU-1-DPW Property for purposes of evaluating its suitability to serve as part of the site cover system in this area.

The revised OU-1 AAR was approved by the NYSDEC in a June 27, 2023 letter to Con Edison. Figures 3, 5, and 6 of this PDI Report present the proposed remedial limits that were included in the NYSDEC-approved OU-1 AAR.

1.5 Phase II ESA Results

MGP-related results from the SESI Phase II ESA completed during June 2021 include:

1.5.1 Soil

- NAPL Observations:
 - Evidence of dense NAPL was observed in B-9, B-14, and B-15 at depths up to 26 feet bgs.
- VOCs:
 - B-9 (13-15 feet bgs), B-12 (2-4 feet bgs), B-14 (17-19 feet bgs), and B-15 (12-14 feet bgs) exceeded 10 ppm for total BTEX.
 - B-9 (13-15 feet bgs) and B-14 (11-13 and 17-19 feet bgs) exceeded the RRSCOs for naphthalene.
 - B-15 (12-14 feet bgs) exceeded the RRSCOs for benzene, toluene, ethylbenzene, total xylenes, naphthalene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene.
- SVOCs:
 - B-9 (13-15 feet bgs), B-14 (17-19 and 24-26 feet bgs) and B-15 (12-14 feet bgs) exceeded 500 ppm for total PAH.
 - B-5 (4-6 feet bgs), B-7 (8-10 feet bgs), B-9 (5-7 and 13-15 feet bgs), B-10 (9-11 feet bgs), B-11 (1-3 feet bgs), B-12 (2-4 and 12-14 feet bgs), B-13 (3-5 feet bgs), B-14 (11-13 and 17-19 feet bgs), and B-15 (12-14 feet bgs) exceeded the RRSCO for one or more of the following SVOCs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

1.5.2 Groundwater

- VOCs:
 - GW-2 exceeded NYSDEC groundwater quality standards and/or guidance values for benzene, ethylbenzene, xylenes, isopropylbenzene, naphthalene, 1,3,5 trimethylbenzene, and 1,2,4 trimethylbenzene.
 - MW-4 exceeded the NYSDEC groundwater quality standards and/or guidance values for benzene, ethylbenzene, and isopropylbenzene.
- SVOCs:
 - GW-1, GW-2, and MW-4 exceeded the NYSDEC groundwater quality standards and/or guidance values for acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluorene, indeno(1,2,3-cd)pyrene. Naphthalene, phenanthrene, phenol, and pyrene.

The results of the SESI Phase II ESA were reviewed as part of the development of proposed PDI activities and to support the PDI recommendations and path forward described in Section 4. SESI completed additional geotechnical borings in October 2023. No samples were collected for analysis of MGP-related constituents as

part of the October 2023 geotechnical sampling completed by SESI and no information relating to those activities is presented in this PDI Report.

1.6 Report Organization

The remainder of this report is organized into the following sections:

- **Section 2 – PDI Field Activities:** Summarizes the field activities performed for the PDI, including mobilization and utility clearance, soil borings, test pitting, surface soil sampling, site survey, community air monitoring, contingency plan, and investigation-derived waste (IDW) management.
- **Section 3 – PDI Results:** Presents the results of the PDI subsurface soil samples, retaining wall evaluation, and surface soil samples.
- **Section 4 – Recommendations and Path Forward:** Presents proposed updated soil excavation and ISS limits based on the Phase II ESA and PDI results and discusses considerations for future remedial design efforts.
- **Section 5 – References:** Presents a list of reference documents used in the preparation of this report.

This report includes the following appendices:

- Appendix A – Boring Logs
- Appendix B – Test Pit Logs
- Appendix C – Borbas Surveying & Mapping, LLC Survey Map
- Appendix D – CAMP Data
- Appendix E – IDW Waste Characterization Analytical Report
- Appendix F – IDW Waste Disposal Documentation
- Appendix G – Data Usability Summary Reports

2 PDI Field Activities

The PDI field activities were implemented between October 13 and December 21, 2023 in accordance with the PDI Work Plan (Con Edison 2023). Health and safety protocols were implemented in accordance with the site-specific Health and Safety Plan, which was updated before implementing the PDI activities.

The field activities consisted of the following:

- Mobilizing to the site and conducting utility clearance activities.
- Completing 22 soil borings.
- Excavating 6 test pits adjacent to the retaining wall along the south bank of Kill Brook.
- Collecting 8 surface soil samples in the undeveloped eastern portion of the OU-1-DPW Property.
- Completing a survey of the PDI locations, including the soil borings, test pits, and surface soil samples.
- Conducting community air monitoring during the PDI investigation activities.
- Managing IDW generated by the PDI activities.

The PDI field activities are described in detail in the following subsections.

2.1 Mobilization and Utility Clearance

One week before the start of PDI field activities, Con Edison notified the United States Army Corps of Engineers, New York District Office and NYSDEC Region 3 Permits Office that work would be conducted adjacent to the stream bank pursuant to the NYSDEC-approved PDI Work Plan. Arcadis' drilling subcontractor, Cascade Environmental (Cascade), was prepared to implement contingency measures, consisting of deployment of turbidity curtains and/or absorbent booms, as appropriate, in accordance with the contingency measures described in the PDI Work Plan. No visible sheens or excess turbidity were observed in the stream during PDI activities and therefore the contingency plan and contingency measures were not implemented.

Before implementing intrusive PDI activities, overhead and subsurface utilities/structures in the immediate vicinity of the locations were evaluated by completing the following:

- Reviewing detailed utility plans for the site during a site visit on October 13, 2023.
- Contacting Dig Safely New York (811) to identify and mark the location of underground utilities in the public roadways and sidewalks (e.g., Water Street Main St, Central Avenue).
- Arcadis' utility locating subcontractor (Ground Penetrating Radar Systems), identified and marked the location of underground utilities in the immediate vicinity of the PDI subsurface sampling locations on October 13, 2023. Utilities and other subsurface features were identified through a geophysical survey using electromagnetic and ground penetrating radar techniques.
- Cascade cleared each soil boring and test pit location to 5 feet bgs by hand clearing (i.e., non-mechanical methods) with support of a portable vacuum compressor and air knife, between October 16 and 25, 2023.

Soil boring, test pits, and surface soil sampling locations were modified in the field (as needed) based on the presence of the identified utilities, other subsurface features, and surface features.

2.2 Soil Borings

Soil borings were completed at 22 locations (SB-100 through SB-121), as shown on Figure 3, to achieve the following:

- Further delineate the limits of soil excavation and ISS treatment.
- Determine the extent, if any, of MGP-related impacts that may be present within and adjacent to the two previously inaccessible former gas holders in the southwest portion of OU-1 and the gas holder located on the portion of the OU-1-DPW Property located north of Kill Brook.

The borings were completed by Cascade using roto sonic drilling methods between October 18 and 26, 2023. Soil boring logs are provided in Appendix A. Soil recovered from each sample interval during drilling was screened with a photoionization detector (PID) and described/logged by field personnel for color, texture, moisture content, and presence/absence of NAPL. Locations where potentially mobile NAPL (focusing on NAPL quantifies exceeding reported blebs and/or sheens) was observed during the PDI are shown on Figure 4. Soil samples were collected from different depth intervals within each soil boring based on subsurface conditions observed (to target the most visibly impacted soil interval at each location and underlying intervals that did not exhibit visual impacts, where possible). A total of 40 subsurface soil samples (plus three duplicate soil samples) collected from 21 locations were submitted to Eurofins/TestAmerica Laboratories (Eurofins) for laboratory analysis for Target Compound List (TCL) VOCs, including BTEX, by USEPA Method 8260 and TCL SVOCs, including PAHs, by USEPA Method 8270. Soil samples were not recovered for laboratory analysis at boring location SB-111 since the only material encountered at that location following utility clearance was heavily weather bedrock that was not suitable for laboratory analysis.

Planned soil borings SB-101, SB-104 and SB-109 could not be completed at the originally proposed boring locations included in the PDI Work Plan due to large boulders/debris that were encountered during utility clearance which prevented hand clearance of these locations to 5 feet bgs. These locations were relocated as soil boring SB-101A, SB-104A and SB-109A (shown on Figure 3), respectively.

Following completion, soil borings were tremie-grouted to grade. Soil borings were repaired with asphalt patch or non-shrink grout, as appropriate, to match the surrounding surface conditions.

2.3 Geotechnical Test Pitting

Geotechnical test pits (GTP) were completed at 6 locations (GTP-1 through GTP-4, GTP-6, and GTP-7), as shown on Figure 3 to visually assess the condition and construction of the retaining wall (i.e., whether the retaining wall was constructed on a footing or as a gravity wall).

The test pits were completed by Cascade using a mini excavator on October 25 and 26, 2023. An Arcadis geotechnical engineer observed the initial excavation efforts, and an Arcadis staff engineer was present during all test pitting efforts to document the findings, including photographs and field notes. Test pit logs are provided in Appendix B. Each test pit was completed to the anticipated depth of the retaining wall footer, to groundwater, or to subsurface obstructions, where encountered.

Planned test pit GTP-5 was not completed due to concerns with potentially damaging the integrity of the retaining wall adjacent to this location. Two additional test pits (GTP-6 and GTP-7) which were not included in the PDI Work Plan were added to provide additional coverage for the geotechnical evaluation of the retaining wall.

No soil samples were collected for laboratory analysis from the test pits. Following completion, each test pit was backfilled with spoils generated from the excavation. Excavated material was placed in approximately the same order it was excavated (i.e., last out, first in).

2.4 Surface Soil Sampling

Surface soil samples were collected at 8 locations (SS-1 through SS-8) to evaluate potential chemical constituents in surface soil in the undeveloped eastern portion of the OU-1-DPW property, as shown on Figure 3.

The surface soil samples were collected by Arcadis using a hand auger on October 27, 2023. As outlined in the PDI Work Plan, surface soil grab samples were originally proposed to be collected at 10 surface soil sampling locations. The planned surface soil sampling locations were adjusted and relocated in the field based on the existing conditions. The eastern portion of the OU-1-DPW property consists of a gorge that is bisected by Kill Brook, with steep slopes and cliffs near the property boundaries to the north and south. The surface sampling locations were generally relocated closer to Kill Brook in flat areas near the brook shoreline with sufficient soil for sampling. Two locations to the north of Kill Brook in the northern portion of the site were eliminated due to the cliff in this area that prevented access.

The PDI Work Plan also targeted the collection of surface soil grab samples from the 0 to 2-inch, 2 to 6-inch, and 12 to 24-inch below grade soil horizon at each sampling location. The surface soil sample depth intervals were modified in the field as follows:

- Samples from the 2-inch to 12-inch interval were collected instead of the target 2-inch to 6-inch interval due to a field error. Con Edison notified NYSDEC via email on October 30, 2023 of the discrepancy and NYSDEC responded on November 11, 2023 indicating that the 2-inch to 12-inch interval was acceptable.
- Refusal was encountered in several locations between 12-inch and 24-inch bgs due to gravel, cobbles, and/or bedrock. The 12-inch to 24-inch bgs sample was adjusted to 12-inch to 18-inch where sufficient material was available for sampling, or the sample was not collected, depending on the depth of refusal.

Each grab sample was submitted to Eurofins for laboratory testing, and analyzed for TCL VOCs by USEPA Method 8260, TCL SVOCs by USEPA Method 8270, and Target Analyte List (TAL) metals by USEPA 6010/7471b.

2.5 Survey

Arcadis' surveying subcontractor (Borbas Surveying & Mapping, LLC) performed the following survey activities on December 12, 2023 in support of the PDI:

- Documented the coordinates and surface elevations of the PDI locations, including the soil borings, test pits, and surface soil samples
- Prepared a survey map with the PDI locations.

A copy of the PDI survey map is included as Appendix C.

2.6 Community Air Monitoring

During drilling for soil borings and excavation for test pits, community air monitoring for particulates and VOCs was completed in accordance with the New York State Department of Health, Generic Community Air Monitoring Plan (CAMP; NYSDEC 2010) included as Appendix 1a to DER-10. No exceedances of response/action levels occurred during the intrusive activities. CAMP air monitoring results are provided in Appendix D.

2.7 IDW Management

Soil cuttings, personal protective equipment (PPE), spent disposable sampling materials, and water generated during sampling and decontamination activities were segregated by waste type and placed in United States Department of Transportation-approved 55-gallon steel drums. Solid waste included 10 drums of soil cuttings, 6 drums of asphalt and concrete, and 4 drums of polyethylene sheeting and PPE. Liquid waste included 1 drum of concrete grout. Each drum/container was appropriately labeled (i.e., with the contents, generator, location, and date). Representative composite samples were collected for waste characterization and analyzed for polychlorinated biphenyls (PCBs), Toxicity Characteristic Leaching Procedure (TCLP) metals, TCLP VOCs, TCLP SVOCs, and Resource Conservation and Recovery Act (RCRA) waste characteristics (including ignitability, reactivity, and corrosivity [I/C/R]). Laboratory reports for the waste characterization samples are included in Appendix E. The waste characterization results indicated that the solid waste generated by the PDI activities is non-hazardous. The liquid waste generated by the PDI activities was characterized as a corrosive hazardous waste and a characteristic hazardous waste due to exceedance of the TCLP regulatory limit for chromium.

The IDW drums were transported for off-site treatment/disposal at a Con Edison-approved disposal facility by Arcadis' waste hauler (Clean Earth, Inc.) on December 21, 2023. Materials for the waste staging area consisting of polyethylene sheeting and 4-inch diameter polyvinyl chloride pipes (used to form berms for the poly sheeting) were transported offsite by Arcadis to the Westchester County waste transfer facility in Elmsford, New York, on January 3, 2024. Waste disposal documentation is provided in Appendix F.

3 PDI Results

This section presents the findings of the PDI activities described in Section 2. Subsurface soil observations and analytical results for subsurface soil samples, observations from test pits that were excavated to evaluate the retaining wall along Kill Brook, and results for surface soil samples collected in the eastern portion of the OU-1-DPW property are discussed below.

3.1 Subsurface Soil Sample Results

MGP-related visual impacts were encountered in soil borings completed across the site. A summary of visual MGP-related impacts observed at the PDI sampling locations is presented in Section 3.1.1.

3.1.1 Field Observations

As indicated by the boring logs included in Appendix A, subsurface conditions encountered at the PDI boring locations were consistent with observations during the RI. No subsurface gas holder foundations or other features were encountered at boring locations completed within the two former gas holders in the southwest portion of the OU-1-DPW property. The two holders in the southwest portion of the OU-1-DPW property appear to have been constructed above-grade with shallow subsurface foundations installed as needed for structural support.

Visual evidence of MGP-residual impacts (including sheens, NAPL blebs, and NAPL-coated materials) was identified in 11 of the 22 borings, as follows:

- SB-101A: 10-16 feet bgs
- SB-103: 6.7-17 feet bgs
- SB-104A: 11-12.3 feet bgs
- SB-106: 10-15 feet bgs
- SB-107: 11.75-12.9 feet bgs
- SB-110: 10-22.2 feet bgs
- SB-112: 10.2-10.3 feet bgs
- SB-117: 5-25 feet bgs
- SB-119: 5-20 feet bgs
- SB-120: 10.6-22.5 feet bgs
- SB-121: 12-25 feet bgs.

Figure 4 shows locations where potentially mobile NAPL (as defined above in Section 1.4) was identified.

3.1.2 Subsurface Soil Sampling Results

Subsurface soil samples were analyzed for VOCs and SVOCs. Analytical results for the laboratory analysis were reported using NYSDEC Analytical Services Protocol (ASP) Category B data deliverable packages. Each data package was validated, and Data Usability Summary Reports (DUSRs) are provided in Appendix G.

For the purposes of evaluating the subsurface soil analytical results, the results were compared (in Tables 1 and 2) to the protection of groundwater, restricted-residential use, and commercial use soil cleanup objectives (SCOs) presented in 6 NYCRR Part 375-6.8(b). MGP-related constituents identified in the subsurface soil samples include BTEX and PAHs. For the purpose of evaluating MGP-related impacts in the subsurface soil samples, the analytical results for total BTEX and total PAHs were compared to screening levels of 10 ppm and 500 ppm, respectively. For this report, total PAHs is the sum of detected concentrations for the 16 priority pollutant PAHs identified by the USEPA (USEPA 2009), including acenaphthene, acenaphthylene, anthracene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Subsurface soil analytical results for VOCs and SVOCs are summarized below.

3.1.2.1 TCL VOCs

TCL VOC analytical results for subsurface soil samples are presented in Table 1 and total BTEX results are shown on Figure 5. Sampling locations on Figure 5 where BTEX compounds were identified at concentrations exceeding their respective protection of groundwater, restricted-residential use, or commercial use SCOs are shown in bold and sample locations where total BTEX concentrations exceed 10 ppm are shaded. TCL VOCs subsurface analytical results are summarized as follows:

- TCL VOCs were non-detect and/or below the SCOs in 18 of 40 subsurface soil samples.
- TCL VOCs were detected at concentrations exceeding the protection of groundwater SCOs in 22 subsurface soil samples collected at 13 sample locations:
 - Only 5 VOCs were detected in subsurface soil samples at concentrations exceeding the protection of groundwater SCOs (acetone, benzene, ethylbenzene, methylene chloride, and toluene).
 - Acetone was detected in eight samples. Acetone is a common laboratory contaminant, and these results may be a laboratory artifact.
 - Methylene chloride was detected in one sample (SB-104-A; 11-12 feet bgs) at an estimated concentration of 0.056 ppm which slightly exceeds the 0.05 ppm protection of groundwater SCO.
- BTEX (benzene, ethylbenzene, and toluene) was detected at concentrations exceeding the RRSCOs in 5 subsurface soil samples at 4 sample locations.
 - Benzene was detected at concentrations exceeding the commercial use SCO of 44 mg/kg in 3 samples at 3 sample locations, including SB-103 (11.5-12.5 feet bgs) at a concentration of 200 mg/kg, SB-117 (10-11 feet bgs) at a concentration of 54 mg/kg, and SB-119 (11-12 feet bgs) at a concentration of 140 mg/kg. These samples are located at depths greater than 10 feet bgs.
- Total BTEX exceeded 10 ppm in 14 samples collected at 9 sample locations. The samples were SB-101A (10-11 feet bgs), SB-103 (11.5-12.5 and 15-16 feet bgs), SB-104A (11-12 feet bgs), SB-106 (13.5-14 feet bgs), SB-110 (16-16.5 feet bgs), SB-117 (10-11, 16-17, and 20.5-21.5 feet bgs), SB-119 (11-12 feet bgs), SB-120 (13-14 [including the duplicate sample] and 20-21 feet bgs), and SB-121 (15.5-16.5 feet bgs).

3.1.2.2 TCL SVOCs

TCL SVOC analytical results for subsurface soil samples are presented in Table 2 and shown on Figure 6. Sampling locations where PAH compounds were identified at concentrations greater than their respective SCO

for protection of groundwater, restricted-residential use, or commercial use are shown in bold and sample locations where total PAHs concentrations exceed 500 ppm are shaded.

TCL SVOCs subsurface analytical results are summarized as follows:

- TCL SVOCs were either not detected or were less than SCOs in 13 of 40 samples (tentatively identified SVOCs may be present at some of these locations).
- TCL SVOCs were detected at concentrations exceeding the protection of groundwater SCOs in 27 samples collected at 14 sample locations.
- PAHs were detected at concentrations exceeding the RRSCOs in 26 samples at 13 sample locations.
- PAHs were detected at concentrations exceeding the commercial use SCOs in 16 samples at 11 sample locations.
 - SB-101A is located near the former pump house, SB-103 is located near the former relief holder, and SB-104A is located near the former coal storage. These locations are adjacent to the ISS treatment limits prepared for the OU-1 AAR.
 - SB-106 and SB-107 are located near the former relief holder and the samples collected from these locations are below the excavation limits prepared for the OU-1 AAR.
 - SB-110 is located near the former relief holder and adjacent to the excavation limits prepared for the OU-1 AAR.
 - SB-112, SB-115, SB-120, and SB-121 are located near the former gas holders, and SB-117 and SB-119 are located within the former gas holders.
- Total PAH exceeded 500 ppm in 7 samples collected at 6 sample locations. The samples were SB-101A (10-11 feet bgs), SB-103 (11.5-12.5 feet bgs), SB-117 (10-11 feet bgs), SB-119 (11-12 feet bgs), SB-120 (13-14 feet bgs [including the duplicate sample]), and SB-121 (15.5-16.5 feet bgs).

3.2 Geotechnical Test Pit Results

The retaining wall evaluation that was conducted as part of the PDI included:

- Visually assessing the construction and condition of the retaining wall along the south bank of Kill Brook.
- Completing of 6 test pits at the locations shown on Figure 3 to assess the subsurface conditions at and adjacent to the upland side of the retaining wall.

The retaining wall along the south side of Kill Brook extends approximately 385 linear feet to the east of a box culvert that conveys Kill Brook beneath North Water Street. No records have been obtained regarding the design or date of construction for the majority of the retaining wall. The construction and condition of the retaining wall is discussed below.

New portion of retaining wall: The western-most portion of the retaining wall (extending approximately 50 feet east from the box culvert to the location of Test Pit GTP-6) was replaced by the Town of Ossining in the early 2000s. Plans associated with this portion of the wall were provided by WB 30 Water Street on August 8, 2023. As-built drawings of the re-built portion of the retaining wall were not provided. The plans indicate that the new portion of the retaining wall is approximately 10 feet tall and sits on a footer that extends approximately 3 feet to the south into the upland side of the wall.

Central portion of retaining wall: The central portion of the retaining wall, extending from the test pit location GTP-6 to the approximate location of GTP-4, consists of a stone and mortar wall of undetermined age. The stone and mortar portion of the wall is in relatively poor condition and has several sections of repairs and patches of unknown age. This section of the wall had recently been cleared of vegetation, but evidence of plants and roots protruding from joints and cracks were observed along the entire section.

Eastern portion of the retaining wall: The eastern portion of the retaining wall, extending to the east of Test Pit location GTP-4, consists of a gravity wall of unknown age. The gravity wall is in very poor condition and consists of stacked stones with no mortar or other improvements. The height of the gravity wall is only approximately 2 to 3 feet above the stream bed and probably doesn't extend any deeper than depth of the stream bed. This section of the wall has limited or no structural integrity.

Retaining Wall Observations

With the goal of each test pit focused on evaluating conditions on the upland side of the retaining wall and tagging the footer, the following observations were made:

- **GTP-01 (Wall installed in 2000s):** The footer was not visualized or tagged due to undermining during excavation; however, construction matched the drawings provided by WB 30 Water Steet.
- **GTP-02 (Stone and mortar wall):** Concrete was observed at 0.5 ft bgs extending from the retaining wall 3 ft toward the site. Test pit was abandoned at 3 ft bgs due to utilities. Footer was not located.
- **GTP-03 (Stone and mortar wall):** I-beams at about 2.5 ft bgs were observed extending 3 ft from the retaining wall toward the site. Test pit was abandoned at 3 ft bgs due to I-beams. Footer was not located.
- **GTP-04 (Gravity wall):** Hard bottom encountered at 4 ft bgs throughout entire bottom of test pit. Test pit was abandoned at 4 ft bgs due to hard bottom. Footer was not located.
- **GTP-06 (Transition from stone and mortar wall to wall installed in 2000s):** The retaining wall footer was tagged at 7 ft bgs using the air knife (at same elevation as groundwater encountered).
- **GTP-07 (Stone and mortar wall):** Water encountered at 5 ft bgs. Air knife advance to 6.5 ft bgs. Footer was not located.

Based on observations made during the retaining wall evaluation, structural support or replacement for certain portions of the retaining wall will be required to complete future remedial activities. There are various options for supporting or replacing portions of the retaining wall during remedial activities which will be evaluated as part of the remedial design. Depending on the option selected, the structural support system may need to be offset from the retaining wall by at least three feet or more to protect the foundation footer at the base of the wall. With the exception of the eastern-most (gravity wall) portion of the retaining wall, subsurface soil adjacent to the wall that contains significant quantities of NAPL is generally deeper than both the creek bed and the bottom of the wall.

3.3 Surface Soil Sample Results

Surface soil samples were analyzed for TCL VOCs, TCL SVOCs, and TAL metals. Analytical results for the laboratory analysis were reported using NYSDEC ASP Category B data deliverable packages. The data package was validated and the DUSR is provided in Attachment G.

Similar to the subsurface soil sample results discussed above, the results for the surface soil samples were compared (in Tables 3 through 5) to the protection of groundwater, restricted-residential use, and commercial use

soil cleanup objectives (SCOs) presented in 6 NYCRR Part 375-6.8(b). No MGP-related constituents were identified in the PDI surface soil samples. Surface soil sampling results for VOCs, SVOCs, and inorganics are summarized below.

3.3.1 VOCs

Surface soil analytical results for TCL VOCs are presented in Table 3. VOCs were not detected in the surface soil samples at concentrations exceeding the SCOs, with the exception of acetone which was detected at a concentration of 0.083 mg/kg at SS-7 (0 to 2-inch bgs) and 0.12 mg/kg at SS-8 (0 to 2-inch bgs). The acetone results for these samples exceeded the protection of groundwater SCO. Acetone is a common laboratory contaminant, and this result may be a laboratory artifact.

3.3.2 SVOCs

Surface soil analytical results for TCL SVOCs are presented in Table 4. SVOCs were not detected at concentrations exceeding the SCOs in any of the surface soil samples collected during the PDI.

3.3.3 Inorganics

Surface soil analytical results for TAL inorganics are presented in Table 5. Inorganic results were below the SCOs for all samples with the exception of lead which was detected at a concentration of 694 mg/kg in sample SS-8 (0 to 2-inch bgs). The detected concentration of lead at location SS-8 exceeds the RRSCO and protection of groundwater SCO. Lead is not an MGP-related constituent and the presence of lead at sample location SS-8 is not related to the former MGP operations at the OU-1-DPW property.

4 Recommendations and Path Forward

The following PDI tasks were completed as part of the PDI:

- Subsurface soil sampling to further define the limits of ISS treatment activities and determine the extent, if any, of MGP-related impacts that may be present in two former gas holders in the southwest portion of the OU-1-DPW property and a former gas holder in the northern portion of the OU-1-DPW property.
- A visual assessment and completion of test pits to investigate the construction and condition of the retaining wall along the south bank of Kill Brook.
- Surface soil sampling to evaluate chemical constituents in surface soil in the undeveloped eastern portion of the OU-1-DPW Property.

Updated soil excavation and ISS limits based on the PDI results are presented below, followed by considerations for supporting portions of the retaining wall during future remedial activities and addressing the elevated surface soil lead concentration in the undeveloped eastern portion of the OU-1-DPW Property.

4.1 ISS Treatment and Soil Excavation Limits

Based on review of visual observations and subsurface soil sample results for the PDI and the SESI Phase II ESA against the remedial action approach for the recommended alternative included in the NYSDEC-approved OU-1 AAR as discussed in Section 1.4 above, the soil excavation and ISS treatment limits from the OU-1 AAR were updated to include PDI and Phase II ESA sampling locations:

- Soil excavation to a depth of 5 feet was added to encompass the SESI subsurface soil sample B-12 (2-4 feet bgs) which exceeded NYSDEC RRSCOs for VOCs and SVOCs.
- The ISS treatment limits and depths were updated to incorporate the following samples with significant quantities of NAPL (based on the criteria discussed in Section 1.4):
 - PDI subsurface soil samples:
 - SB-101A (10-11 feet bgs)
 - SB-103 (11.5-12.5 and 15-16 feet bgs)
 - SB-117 (10-11 feet bgs)
 - SB-119 (11-12 feet bgs)
 - SB-120 (13-14 feet bgs)
 - SB-121 (15.5-16 feet bgs)
 - SESI subsurface soil samples:
 - B-9 (13-15 feet bgs)
 - B-14 (17-19 and 24-26 feet bgs)
 - B-15 (12-14 feet bgs).

In addition, based on discussion and comments from the NYSDEC and WB 30 Water Street, Con Edison has agreed to implementation of ISS treatment of soil in the vicinity of soil borings SB-106 and SB-107 to a depth of 20 feet and ISS treatment of soil in the vicinity of soil borings SB-110 and SB-112 to a depth of 12 feet.

The updated ISS treatment and soil excavation limits and depths are shown on Figure 7. The revised excavation limits shown on Figure 7 (including pre-excavation of ISS treatment areas to a depth of 5 feet) increase the excavation volume by approximately 1,630 CY, from approximately 2,830 CY as proposed in the OU-1 AAR to approximately 4,460 CY. The revised ISS treatment areas shown on Figure 7 increase the ISS treatment volume by approximately 3,993 CY, from approximately 5,890 CY as proposed in the OU-1 AAR to approximately 9,883 CY.

4.2 Retaining Wall Support

As summarized above in Section 3.2, structural support or replacement of certain portions of the retaining wall will be required to complete future remedial activities. For the purposes of future remedial activities, structural support or replacement of the wall is only required for certain portions of the wall immediately adjacent to locations where excavation and ISS treatment activities are proposed (which includes approximately 250 linear feet of the approximately 385-foot-long wall along the south side of Kill Brook). The following should be considered during the design and implementation of proposed remediation:

- Extensive subsurface obstructions were encountered in several of the test pits. Prior to the installation of any structural support measures, pre-clearance excavation to the approximate depth of the bottom of the footer will be required. Please note that:
 - Concrete and asphalt thickness varies at the surface.
 - Subsurface utilities and/or other obstructions (i.e., I-Beams, hard bottom) will need to be located, cut, and capped, and removed where applicable.
- Remediation may need to be off-set from the footer which extends approximately 3-ft into the site from the retaining wall. The height of the wall and the depth of the footer varies based on location within the site (with height and depth decreasing from west to east).

Based on Arcadis' evaluation of the retaining wall, the gravity wall portion of the wall extending to the east of Test Pit location GTP-4 may need to be replaced to facilitate implementation of remediation activities. There are various options for supporting or replacing certain portions of the retaining wall west of Test Pit location GTP-4 during remedial activities which will be evaluated as part of the remedial design. Depending on the option selected, the structural support system may need to be offset from the retaining wall by at least three feet or more to protect the foundation footer at the base of the wall. Subsurface soil containing significant quantities of NAPL adjacent to the portion of the retaining wall located west of Test Pit location GTP-4 is generally deeper than both the creek bed and the bottom of the wall.

Potential structural support systems and/or other options for implementing remedial activities along the remaining portions of the retaining wall should be evaluated and fully developed as part of the remedial design.

4.3 Undeveloped Eastern Portion of the OU-1-DPW Property

Based on the surface soil results, the concentration of lead detected at a depth of 0 to 2 inches at surface soil sampling location SS-8 exceeds the NYSDEC RRSCO and protection of groundwater SCO. Lead is not an MGP-related constituent and the surface soil results are not associated with the former MGP operation at the OU-1-DPW property. Requirements for addressing the detected lead concentration at surface soil sampling location SS-8 should be considered in the development of the remedial design for the OU-1-DPW property.

5 References

- Arcadis 2020a. Remedial Investigation Report. Former Ossining Works Manufactured Gas Plant Site, Ossining, New York. September.
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Tables

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-100 15 - 16 10/25/23 SB-100(15.0-16.0) 460-291249-2	SB-100 16 - 17 10/25/23 SB-100(16.0-17.0) 460-291249-1	SB-101-A 10 - 11 10/26/23 SB-101-A(10.0-11.0) 460-291332-2	SB-101-A 20 - 21 10/26/23 SB-101-A(20.0-21.0) 460-291332-3
Volatile Organics								
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090 J
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,2-Dibromoethane	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
1,2-Dichloropropane	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
1,4-Dioxane	0.1	13	130	mg/kg	<0.092 J [<0.11]	<0.095	<5.1	<0.090 J
2-Hexanone	--	--	--	mg/kg	<0.0046 [<0.0053]	<0.0048	<0.51	<0.0045
Acetone	0.05	100	500	mg/kg	0.031 J [0.054 J]	0.035	<0.51	0.25 J
Benzene	0.06	4.8	44	mg/kg	<0.00092 [0.001 J]	0.00053 J	1.4	0.0058
Bromochloromethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Bromodichloromethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Bromoform	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Bromomethane	--	--	--	mg/kg	<0.0018 [<0.0021]	<0.0019	<0.10	<0.0018
Carbon Disulfide	--	--	--	mg/kg	<0.00092 J [<0.0011 J]	0.0016 J	0.14 J	0.0075 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Chlorobenzene	1.1	100	500	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Chloroethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Chloroform	0.37	49	350	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Chloromethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Cyclohexane	--	--	--	mg/kg	<0.00092 J [<0.0011 J]	<0.00095 J	<0.10	0.00076 J
Dibromochloromethane	--	--	--	mg/kg	<0.00092 [<0.0011]	<0.00095	<0.10	<0.00090
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00092 J [<0.0011 J]	<0.00095 J	<0.10 J	<0.00090
Ethylbenzene	1	41	390	mg/kg	<0.00092 J [0.001 J]	0.00045 J	12	0.19
Isopropylbenzene	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	5.1	0.093

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-100 15 - 16 10/25/23 SB-100(15.0-16.0) 460-291249-2	SB-100 16 - 17 10/25/23 SB-100(16.0-17.0) 460-291249-1	SB-101-A 10 - 11 10/26/23 SB-101-A(10.0-11.0) 460-291332-2	SB-101-A 20 - 21 10/26/23 SB-101-A(20.0-21.0) 460-291332-3
Volatile Organics (continued)								
m,p-Xylene	--	--	--	mg/kg	<0.00092 J [0.0024]	<0.00095	2.6	0.048
Methyl acetate	--	--	--	mg/kg	<0.0046 J [<0.0053 J]	<0.0048 J	<0.51	<0.0045
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0084 J [0.0084 J]	0.0066 J	<0.51	0.0083
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0046 J [<0.0053]	<0.0048	<0.51	<0.0045
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Methylcyclohexane	--	--	--	mg/kg	<0.00092 J [<0.0011 J]	<0.00095 J	0.35	0.0078
Methylene Chloride	0.05	100	500	mg/kg	<0.0018 J [<0.0021]	<0.0019	<0.10	<0.0018
o-Xylene	--	--	--	mg/kg	<0.00092 J [0.0016]	<0.00095	4.0	0.087
Styrene	--	--	--	mg/kg	<0.00092 J [0.0009 J]	<0.00095	0.13	<0.00090
Tetrachloroethene	1.3	19	150	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Toluene	0.7	100	500	mg/kg	0.00041 J [0.0022]	0.00078 J	1.1	0.0038
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Trichloroethene	0.47	21	200	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Trichlorofluoromethane	--	--	--	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00092 J [<0.0011]	<0.00095	<0.10	<0.00090
Total BTEX				mg/kg	0.00041 J [0.0082 J]	0.0018 J	21	0.33

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-101-A 26.5 - 27.5 10/26/23 SB-101-A(26.5-27.5) 460-291332-5	SB-102 12 - 13 10/19/23 SB-102(12.0-13.0)-20231019 460-290809-1	SB-102 22 - 23 10/19/23 SB-102(22.0-23.0)-20231019 460-290809-2
Volatile Organics							
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00085 J [<0.0012 J]	<0.00099	<0.00091
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00085 [<0.0012]	0.00039 J	0.00059 J
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099 J	<0.00091
1,2-Dibromoethane	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00085 J [<0.0012]	0.055	<0.00091
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,2-Dichloropropane	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00085 J [<0.0012]	0.0063	<0.00091
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00085 J [<0.0012]	0.019	<0.00091
1,4-Dioxane	0.1	13	130	mg/kg	<0.085 J [<0.12]	<0.099	<0.091
2-Hexanone	--	--	--	mg/kg	<0.0043 [<0.0059]	<0.0049	<0.0045
Acetone	0.05	100	500	mg/kg	0.22 J [0.39 J]	0.020	<0.0054
Benzene	0.06	4.8	44	mg/kg	0.00030 J [0.00068 J]	0.0016	<0.00091
Bromochloromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Bromodichloromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Bromoform	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091 J
Bromomethane	--	--	--	mg/kg	<0.0017 [<0.0024]	<0.0020	<0.0018
Carbon Disulfide	--	--	--	mg/kg	0.0037 J [0.0058 J]	0.0014 J	<0.00091 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Chlorobenzene	1.1	100	500	mg/kg	<0.00085 J [<0.0012]	0.0066	<0.00091
Chloroethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Chloroform	0.37	49	350	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
Chloromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
Cyclohexane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099 J	<0.00091 J
Dibromochloromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Ethylbenzene	1	41	390	mg/kg	0.0041 J [0.0025]	0.022	<0.00091
Isopropylbenzene	--	--	--	mg/kg	0.0012 J [0.001 J]	0.0091	<0.00091

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-101-A 26.5 - 27.5 10/26/23 SB-101-A(26.5-27.5) 460-291332-5	SB-102 12 - 13 10/19/23 SB-102(12.0-13.0)-20231019 460-290809-1	SB-102 22 - 23 10/19/23 SB-102(22.0-23.0)-20231019 460-290809-2
Volatile Organics (continued)							
m,p-Xylene	--	--	--	mg/kg	0.0013 J [0.00087 J]	0.0031	<0.00091
Methyl acetate	--	--	--	mg/kg	<0.0043 [<0.0059]	<0.0049	<0.0045
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0077 [0.0073]	<0.0049	<0.0045
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0043 [<0.0059]	<0.0049	<0.0045
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Methylcyclohexane	--	--	--	mg/kg	<0.00085 J [<0.0012]	0.0012 J	<0.00091 J
Methylene Chloride	0.05	100	500	mg/kg	<0.0017 [<0.0024]	<0.0020	<0.0018
o-Xylene	--	--	--	mg/kg	0.0017 J [0.0013]	0.0031	<0.00091
Styrene	--	--	--	mg/kg	0.00099 J [0.0009 J]	0.0014	<0.00091
Tetrachloroethene	1.3	19	150	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
Toluene	0.7	100	500	mg/kg	0.00025 J [0.00042 J]	0.00095 J	<0.00091
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
Trichloroethene	0.47	21	200	mg/kg	<0.00085 J [<0.0012]	<0.00099	<0.00091
Trichlorofluoromethane	--	--	--	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00085 [<0.0012]	<0.00099	<0.00091
Total BTEX				mg/kg	0.0077 J [0.0058 J]	0.031 J	ND

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-103 11.5 - 12.5 10/24/23 SB-103(11.5-12.5) 460-291054-3	SB-103 15 - 16 10/24/23 SB-103(15.0-16.0) 460-291054-4	SB-103 18 - 18.5 10/24/23 SB-103(18.0-18.5) 460-291054-2	SB-104-A 11 - 12 10/26/23 SB-104-A(11.0-12.0) 460-291332-4
Volatile Organics								
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,1,2-Trichloroethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,1-Dichloroethane	0.27	26	240	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,1-Dichloroethene	0.33	100	500	mg/kg	<1.2	<0.10	0.00092 J	<0.11
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,2-Dibromoethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<1.2	0.070 J	<0.00090	<0.11
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,2-Dichloropropane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<1.2	<0.10	<0.00090	<0.11
1,4-Dioxane	0.1	13	130	mg/kg	<60	<5.1	<0.090	<5.5
2-Hexanone	--	--	--	mg/kg	<6.0	<0.51	<0.0045	<0.55
Acetone	0.05	100	500	mg/kg	<6.0	<0.51	0.015	<0.55
Benzene	0.06	4.8	44	mg/kg	200	9.1	0.0036	0.10 J
Bromochloromethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Bromodichloromethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Bromoform	--	--	--	mg/kg	<1.2	<0.10	<0.00090 J	<0.11
Bromomethane	--	--	--	mg/kg	<1.2	<0.10	<0.0018 J	<0.11
Carbon Disulfide	--	--	--	mg/kg	<1.2 J	0.13 J	0.0012 J	0.089 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<1.2	<0.10	<0.00090	<0.11
Chlorobenzene	1.1	100	500	mg/kg	<1.2	<0.10	<0.00090	<0.11
Chloroethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Chloroform	0.37	49	350	mg/kg	<1.2	<0.10	<0.00090	<0.11
Chloromethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<1.2	<0.10	<0.00090	<0.11
cis-1,3-Dichloropropene	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Cyclohexane	--	--	--	mg/kg	0.37 J	<0.10	<0.00090 J	0.72
Dibromochloromethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Dichlorodifluoromethane	--	--	--	mg/kg	<1.2 J	<0.10 J	<0.00090	<0.11 J
Ethylbenzene	1	41	390	mg/kg	220	6.6	0.0029	17
Isopropylbenzene	--	--	--	mg/kg	7.4	1.2	0.00084 J	2.9

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-103 11.5 - 12.5 10/24/23 SB-103(11.5-12.5) 460-291054-3	SB-103 15 - 16 10/24/23 SB-103(15.0-16.0) 460-291054-4	SB-103 18 - 18.5 10/24/23 SB-103(18.0-18.5) 460-291054-2	SB-104-A 11 - 12 10/26/23 SB-104-A(11.0-12.0) 460-291332-4
Volatile Organics (continued)								
m,p-Xylene	--	--	--	mg/kg	180	6.8	0.0033	4.7
Methyl acetate	--	--	--	mg/kg	<6.0	<0.51	<0.0045 J	<0.55
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<6.0	<0.51	<0.0045	<0.55
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<6.0	<0.51	<0.0045	<0.55
Methyl tert-butyl ether	0.93	100	500	mg/kg	<1.2	<0.10	<0.00090	<0.11
Methylcyclohexane	--	--	--	mg/kg	1.3	0.26	<0.00090 J	5.4
Methylene Chloride	0.05	100	500	mg/kg	<1.2	<0.10	<0.0018	0.056 J
o-Xylene	--	--	--	mg/kg	80	3.6	0.0018	6.0
Styrene	--	--	--	mg/kg	82	6.3	0.0033	<0.11
Tetrachloroethene	1.3	19	150	mg/kg	<1.2	<0.10	0.0011	<0.11
Toluene	0.7	100	500	mg/kg	230	10	0.0055	0.26
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<1.2	<0.10	<0.00090	<0.11
trans-1,3-Dichloropropene	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Trichloroethene	0.47	21	200	mg/kg	<1.2	<0.10	<0.00090	<0.11
Trichlorofluoromethane	--	--	--	mg/kg	<1.2	<0.10	<0.00090	<0.11
Vinyl Chloride	0.02	0.9	13	mg/kg	<1.2	<0.10	<0.00090	<0.11
Total BTEX				mg/kg	910	36	0.017	28 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-104-A 17 - 17.5 10/26/23 SB-104-A(17.0-17.5) 460-291332-6	SB-105 2 - 2.8 10/24/23 SB-105(2.0-2.8) 460-291054-1	SB-106 13.5 - 14 10/18/23 SB-106(13.5-14.0)-20231018 460-290738-2
Volatile Organics							
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00084	<0.00081	<0.37
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00084 J	<0.00081	<0.37
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00084	<0.00081	<0.37
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00084	0.0010 J	<0.37
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00084	<0.00081 J	<0.37
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00084	<0.00081 J	<0.37
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
1,2-Dibromoethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00084	<0.00081	<0.37
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00084	<0.00081	<0.37
1,2-Dichloropropane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00084	<0.00081	<0.37
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00084	<0.00081	<0.37
1,4-Dioxane	0.1	13	130	mg/kg	<0.084 J	<0.081	<18
2-Hexanone	--	--	--	mg/kg	<0.0042	<0.0040	<1.8
Acetone	0.05	100	500	mg/kg	0.061 J	0.047	<1.8
Benzene	0.06	4.8	44	mg/kg	0.00066 J	<0.00081	0.36 J
Bromochloromethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Bromodichloromethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Bromoform	--	--	--	mg/kg	<0.00084	<0.00081 J	<0.37
Bromomethane	--	--	--	mg/kg	<0.0017	<0.0016 J	<0.37
Carbon Disulfide	--	--	--	mg/kg	0.0087 J	<0.00081 J	<0.37
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00084	<0.00081	<0.37
Chlorobenzene	1.1	100	500	mg/kg	<0.00084	<0.00081	<0.37
Chloroethane	--	--	--	mg/kg	<0.00084	<0.00081 J	<0.37
Chloroform	0.37	49	350	mg/kg	<0.00084	<0.00081	<0.37
Chloromethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00084	<0.00081	<0.37
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Cyclohexane	--	--	--	mg/kg	0.0029	<0.00081 J	<0.37
Dibromochloromethane	--	--	--	mg/kg	<0.00084	<0.00081 J	<0.37
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Ethylbenzene	1	41	390	mg/kg	0.065	<0.00081	13
Isopropylbenzene	--	--	--	mg/kg	0.011	<0.00081	2.9

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-104-A 17 - 17.5 10/26/23 SB-104-A(17.0-17.5) 460-291332-6	SB-105 2 - 2.8 10/24/23 SB-105(2.0-2.8) 460-291054-1	SB-106 13.5 - 14 10/18/23 SB-106(13.5-14.0)-20231018 460-290738-2
Volatile Organics (continued)							
m,p-Xylene	--	--	--	mg/kg	0.015	<0.00081	2.0
Methyl acetate	--	--	--	mg/kg	<0.0042	<0.0040	<1.8
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.012	<0.0040	<1.8
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0042	<0.0040	<1.8
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00084	<0.00081	<0.37
Methylcyclohexane	--	--	--	mg/kg	0.023	<0.00081 J	0.58
Methylene Chloride	0.05	100	500	mg/kg	<0.0017	<0.0016	<0.37
o-Xylene	--	--	--	mg/kg	0.025	<0.00081	4.2
Styrene	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Tetrachloroethene	1.3	19	150	mg/kg	<0.00084	<0.00081 J	<0.37
Toluene	0.7	100	500	mg/kg	0.00060 J	<0.00081	0.23 J
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00084	<0.00081	<0.37
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Trichloroethene	0.47	21	200	mg/kg	<0.00084	<0.00081	<0.37
Trichlorofluoromethane	--	--	--	mg/kg	<0.00084	<0.00081	<0.37
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00084	<0.00081	<0.37
Total BTEX				mg/kg	0.11 J	ND	20 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-106 20 - 20.5 10/18/23 SB-106(20.0-20.5)-20231018 460-290738-3	SB-107 12.5 - 13 10/19/23 SB-107(12.5-13)-20231019 460-290738-5	SB-107 15 - 16 10/19/23 SB-107(15-16)-20231019 460-290738-6
Volatile Organics								
1,1,1-Trichloroethane	0.68	100	100	500	mg/kg	<0.094	<0.00090	<0.00094
1,1,2,2-Tetrachloroethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,1,2-Trichloroethane	--	--	--	--	mg/kg	<0.094	<0.00090 J	<0.00094 J
1,1-Dichloroethane	0.27	26	26	240	mg/kg	<0.094	<0.00090	<0.00094
1,1-Dichloroethene	0.33	100	100	500	mg/kg	<0.094	<0.00090	<0.00094
1,2,3-Trichlorobenzene	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,2,4-Trichlorobenzene	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,2-Dibromo-3-chloropropane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,2-Dibromoethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,2-Dichlorobenzene	1.1	100	100	500	mg/kg	<0.094	<0.00090	<0.00094
1,2-Dichloroethane	0.02	3.1	3.1	30	mg/kg	<0.094	<0.00090	<0.00094
1,2-Dichloropropane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
1,3-Dichlorobenzene	2.4	49	49	280	mg/kg	<0.094	<0.00090	<0.00094
1,4-Dichlorobenzene	1.8	13	13	130	mg/kg	<0.094	<0.00090	<0.00094
1,4-Dioxane	0.1	13	13	130	mg/kg	<4.7	<0.090	<0.094
2-Hexanone	--	--	--	--	mg/kg	<0.47	<0.0045	<0.0047
Acetone	0.05	100	100	500	mg/kg	<0.47	0.036 J	0.018 J
Benzene	0.06	4.8	4.8	44	mg/kg	0.075 J	0.0040	0.072
Bromochloromethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Bromodichloromethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Bromoform	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Bromomethane	--	--	--	--	mg/kg	<0.094	<0.0018	<0.0019
Carbon Disulfide	--	--	--	--	mg/kg	<0.094	0.0093	0.0051
Carbon Tetrachloride	0.76	2.4	2.4	22	mg/kg	<0.094	<0.00090	<0.00094
Chlorobenzene	1.1	100	100	500	mg/kg	<0.094	<0.00090	<0.00094
Chloroethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Chloroform	0.37	49	49	350	mg/kg	<0.094	<0.00090	<0.00094
Chloromethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
cis-1,2-Dichloroethene	0.25	100	100	500	mg/kg	<0.094	<0.00090	<0.00094
cis-1,3-Dichloropropene	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Cyclohexane	--	--	--	--	mg/kg	<0.094	0.00042 J	0.0024
Dibromochloromethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Dichlorodifluoromethane	--	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Ethylbenzene	1	41	41	390	mg/kg	1.7	0.047	0.37
Isopropylbenzene	--	--	--	--	mg/kg	0.30	0.018	0.054

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:					SB-106 20 - 20.5 10/18/23 SB-106(20.0-20.5)-20231018 460-290738-3	SB-107 12.5 - 13 10/19/23 SB-107(12.5-13)-20231019 460-290738-5	SB-107 15 - 16 10/19/23 SB-107(15-16)-20231019 460-290738-6
	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units			
Volatile Organics (continued)							
m,p-Xylene	--	--	--	mg/kg	0.23	0.0051	0.033
Methyl acetate	--	--	--	mg/kg	<0.47	<0.0045	<0.0047
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<0.47	0.013	0.0050
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.47	<0.0045	<0.0047
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.094	<0.00090	<0.00094
Methylcyclohexane	--	--	--	mg/kg	<0.094	0.0027	0.0088
Methylene Chloride	0.05	100	500	mg/kg	<0.094	<0.0018	<0.0019
o-Xylene	--	--	--	mg/kg	0.45	0.0076	0.051
Styrene	--	--	--	mg/kg	<0.094	0.0015	<0.00094
Tetrachloroethene	1.3	19	150	mg/kg	<0.094	<0.00090	<0.00094
Toluene	0.7	100	500	mg/kg	0.038 J	0.0011	0.0098
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.094	<0.00090	<0.00094
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Trichloroethene	0.47	21	200	mg/kg	<0.094	<0.00090	<0.00094
Trichlorofluoromethane	--	--	--	mg/kg	<0.094	<0.00090	<0.00094
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.094	<0.00090	<0.00094
Total BTEX				mg/kg	2.5 J	0.065	0.54

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-108 5 - 6 10/19/23 SB-108(5.0-6.0)-20231019 460-290809-3	SB-109 2 - 3 10/20/23 SB-109(2.0-3.0) 460-290809-4	SB-109-A 1 - 2 10/26/23 SB-109-A(1.0-2.0) 460-291332-1	SB-110 7.5 - 8 10/18/23 SB-110 (7.5-8.0)-20231018 460-290692-1
Volatile Organics								
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090 J	<0.0021
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,1-Dichloroethene	0.33	100	500	mg/kg	0.00063 J	<0.0011 J	<0.00090	<0.0021
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00092	<0.0011 J	<0.00090	<0.0021
1,2-Dibromoethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,2-Dichloropropane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
1,4-Dioxane	0.1	13	130	mg/kg	<0.092	<0.11	<0.090 J	<0.21
2-Hexanone	--	--	--	mg/kg	<0.0046	<0.0057	<0.0045	<0.010
Acetone	0.05	100	500	mg/kg	0.019	0.016	<0.0054 J	0.049
Benzene	0.06	4.8	44	mg/kg	0.00043 J	<0.0011	<0.00090	0.0082
Bromochloromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Bromodichloromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Bromoform	--	--	--	mg/kg	<0.00092 J	<0.0011	<0.00090	<0.0021
Bromomethane	--	--	--	mg/kg	<0.0018	<0.0023	<0.0018	<0.0042
Carbon Disulfide	--	--	--	mg/kg	<0.00092 J	<0.0011 J	<0.00090 J	0.0040
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Chlorobenzene	1.1	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Chloroethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Chloroform	0.37	49	350	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Chloromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Cyclohexane	--	--	--	mg/kg	<0.00092 J	<0.0011 J	<0.00090	<0.0021
Dibromochloromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Ethylbenzene	1	41	390	mg/kg	<0.00092	<0.0011	0.00027 J	0.0035
Isopropylbenzene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	0.022

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-108 5 - 6 10/19/23 SB-108(5.0-6.0)-20231019 460-290809-3	SB-109 2 - 3 10/20/23 SB-109(2.0-3.0) 460-290809-4	SB-109-A 1 - 2 10/26/23 SB-109-A(1.0-2.0) 460-291332-1	SB-110 7.5 - 8 10/18/23 SB-110 (7.5-8.0)-20231018 460-290692-1
Volatile Organics (continued)								
m,p-Xylene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	0.0020 J
Methyl acetate	--	--	--	mg/kg	<0.0046	<0.0057	<0.0045	<0.010
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<0.0046	<0.0057	<0.0045	0.013
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0046	<0.0057	<0.0045	<0.010
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Methylcyclohexane	--	--	--	mg/kg	<0.00092 J	<0.0011 J	<0.00090	0.0053
Methylene Chloride	0.05	100	500	mg/kg	<0.0018	<0.0023	<0.0018	<0.0042
o-Xylene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	0.0027
Styrene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	0.0013 J
Tetrachloroethene	1.3	19	150	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Toluene	0.7	100	500	mg/kg	0.00056 J	<0.0011	<0.00090	0.0018 J
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Trichloroethene	0.47	21	200	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Trichlorofluoromethane	--	--	--	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00092	<0.0011	<0.00090	<0.0021
Total BTEX				mg/kg	0.00099 J	ND	0.00027 J	0.018 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-110 16 - 16.5 10/18/23 SB-110 (16.0-16.5)-20231018 460-290692-2	SB-112 10 - 10.5 10/18/23 SB-112(10.0-10.5)-20231018 460-290738-1	SB-112 15 - 15.5 10/18/23 SB-112(15.0-15.5)-20231018 460-290738-4
Volatile Organics							
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.098	<0.0011	<0.095
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.098 J	<0.0011	<0.095
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.098	<0.0011 J	<0.095
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.098	<0.0011	<0.095
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.098	<0.0011	<0.095
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,2-Dibromoethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.098	<0.0011	<0.095
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.098	<0.0011	<0.095
1,2-Dichloropropane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.098	<0.0011	<0.095
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.098	<0.0011	<0.095
1,4-Dioxane	0.1	13	130	mg/kg	<4.9	<0.11	<4.7
2-Hexanone	--	--	--	mg/kg	<0.49	<0.0055	<0.47
Acetone	0.05	100	500	mg/kg	<0.49	0.061 J	<0.47
Benzene	0.06	4.8	44	mg/kg	0.37	0.040	<0.095
Bromochloromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Bromodichloromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Bromoform	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Bromomethane	--	--	--	mg/kg	<0.098	<0.0022	<0.095
Carbon Disulfide	--	--	--	mg/kg	0.19	0.0020	<0.095
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.098	<0.0011	<0.095
Chlorobenzene	1.1	100	500	mg/kg	<0.098	<0.0011	<0.095
Chloroethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Chloroform	0.37	49	350	mg/kg	<0.098	<0.0011	<0.095
Chloromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.098	<0.0011	<0.095
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Cyclohexane	--	--	--	mg/kg	0.13	0.025	0.13
Dibromochloromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Dichlorodifluoromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095 J
Ethylbenzene	1	41	390	mg/kg	14	0.13	2.7
Isopropylbenzene	--	--	--	mg/kg	2.0	0.16	1.1

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-110 16 - 16.5 10/18/23 SB-110 (16.0-16.5)-20231018 460-290692-2	SB-112 10 - 10.5 10/18/23 SB-112(10.0-10.5)-20231018 460-290738-1	SB-112 15 - 15.5 10/18/23 SB-112(15.0-15.5)-20231018 460-290738-4
Volatile Organics (continued)							
m,p-Xylene	--	--	--	mg/kg	0.77	0.022	0.042 J
Methyl acetate	--	--	--	mg/kg	<0.49	<0.0055	<0.47
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<0.49	0.015	<0.47
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.49	<0.0055	<0.47
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.098	<0.0011	<0.095
Methylcyclohexane	--	--	--	mg/kg	1.0	0.12	1.4 J
Methylene Chloride	0.05	100	500	mg/kg	<0.098	<0.0022	<0.095
o-Xylene	--	--	--	mg/kg	3.0	0.092	0.25
Styrene	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Tetrachloroethene	1.3	19	150	mg/kg	<0.098	<0.0011	<0.095
Toluene	0.7	100	500	mg/kg	0.12	0.0024	<0.095
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.098	<0.0011	<0.095
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Trichloroethene	0.47	21	200	mg/kg	<0.098	<0.0011	<0.095
Trichlorofluoromethane	--	--	--	mg/kg	<0.098	<0.0011	<0.095
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.098	<0.0011	<0.095
Total BTEX				mg/kg	18	0.29	3 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-113 7 - 8 10/24/23 SB-113(7.0-8.0) 460-291054-5	SB-114 1 - 1.5 10/23/23 SB-114(1.0-1.5) 460-291054-8	SB-115 5 - 6 10/24/23 SB-115(5.0-6.0) 460-291147-8	SB-115 6.5 - 7.5 10/24/23 SB-115(6.5-7.5) 460-291147-9	SB-116 2 - 3 10/23/23 SB-116(2.0-3.0) 460-291054-6
Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087 J	<0.00084
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,1-Dichloroethene	0.33	100	500	mg/kg	0.0027 J	<0.00088 J	<0.080	<0.00087	0.0010 J
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084 J
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084 J
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,2-Dibromoethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,2-Dichloropropane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
1,4-Dioxane	0.1	13	130	mg/kg	<0.11	<0.088	<4.0	<0.087	<0.084
2-Hexanone	--	--	--	mg/kg	<0.0054	<0.0044	<0.40	<0.0044	<0.0042
Acetone	0.05	100	500	mg/kg	0.037	0.026	<0.40	0.036 J	0.012
Benzene	0.06	4.8	44	mg/kg	<0.0011	0.00023 J	0.96	0.00024 J	<0.00084
Bromochloromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Bromodichloromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Bromoform	--	--	--	mg/kg	<0.0011 J	<0.00088 J	<0.080	<0.00087	<0.00084 J
Bromomethane	--	--	--	mg/kg	<0.0022 J	<0.0018 J	<0.080	<0.0017	<0.0017 J
Carbon Disulfide	--	--	--	mg/kg	0.00090 J	0.0044 J	<0.080 J	0.00062 J	0.0031 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Chlorobenzene	1.1	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Chloroethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084 J
Chloroform	0.37	49	350	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Chloromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080 J	<0.00087 J	<0.00084
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Cyclohexane	--	--	--	mg/kg	<0.0011 J	<0.00088 J	<0.080	<0.00087	<0.00084 J
Dibromochloromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084 J
Dichlorodifluoromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080 J	<0.00087	<0.00084
Ethylbenzene	1	41	390	mg/kg	<0.0011	<0.00088	0.17	0.0048	<0.00084
Isopropylbenzene	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	0.0033	<0.00084

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-113 7 - 8 10/24/23 SB-113(7.0-8.0) 460-291054-5	SB-114 1 - 1.5 10/23/23 SB-114(1.0-1.5) 460-291054-8	SB-115 5 - 6 10/24/23 SB-115(5.0-6.0) 460-291147-8	SB-115 6.5 - 7.5 10/24/23 SB-115(6.5-7.5) 460-291147-9	SB-116 2 - 3 10/23/23 SB-116(2.0-3.0) 460-291054-6
Volatile Organics (continued)									
m,p-Xylene	--	--	--	mg/kg	<0.0011	<0.00088	0.37	0.0034	<0.00084
Methyl acetate	--	--	--	mg/kg	<0.0054 J	<0.0044 J	0.18 J	<0.0044	<0.0042
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0038 J	0.0059	<0.40	0.0095	<0.0042
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0054	<0.0044	<0.40	<0.0044	<0.0042
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Methylcyclohexane	--	--	--	mg/kg	<0.0011 J	<0.00088 J	<0.080	<0.00087	<0.00084 J
Methylene Chloride	0.05	100	500	mg/kg	<0.0022	<0.0018	<0.080	<0.0017	<0.0017
o-Xylene	--	--	--	mg/kg	<0.0011	<0.00088	0.18	0.0046	<0.00084
Styrene	--	--	--	mg/kg	<0.0011	<0.00088	0.41	0.00082 J	<0.00084
Tetrachloroethene	1.3	19	150	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084 J
Toluene	0.7	100	500	mg/kg	<0.0011	<0.00088	0.88	0.00049 J	<0.00084
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Trichloroethene	0.47	21	200	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Trichlorofluoromethane	--	--	--	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.0011	<0.00088	<0.080	<0.00087	<0.00084
Total BTEX				mg/kg	ND	0.00023 J	2.6	0.014 J	ND

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-117 10 - 11 10/25/23 SB-117(10.0-11.0) 460-291147-2	SB-117 16 - 17 10/25/23 SB-117(16.0-17.0) 460-291147-3	SB-117 20.5 - 21.5 10/25/23 SB-117(20.5-21.5) 460-291147-4	SB-118 1 - 2 10/23/23 SB-118(1.0-2.0) 460-291054-7	SB-119 11 - 12 10/25/23 SB-119(11.0-12.0) 460-291249-4
Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.47	<0.097	<0.093	0.00068 J	<1.2
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.47 J	<0.097	<0.093	<0.00086	<1.2
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.47 J	<0.097	<0.093	<0.00086	<1.2
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,2-Dibromoethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,2-Dichloropropane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
1,4-Dioxane	0.1	13	130	mg/kg	<23	<4.8	<4.6	<0.086	<58
2-Hexanone	--	--	--	mg/kg	<2.3	<0.48	<0.46	<0.0043	<5.8
Acetone	0.05	100	500	mg/kg	4.9	<0.48	<0.46	<0.0052	<5.8
Benzene	0.06	4.8	44	mg/kg	54	1.3	1.4	<0.00086	140
Bromochloromethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Bromodichloromethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Bromoform	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086 J	<1.2
Bromomethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.0017 J	<1.2
Carbon Disulfide	--	--	--	mg/kg	<0.47 J	<0.097 J	<0.093 J	<0.00086 J	<1.2 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Chlorobenzene	1.1	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Chloroethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Chloroform	0.37	49	350	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Chloromethane	--	--	--	mg/kg	<0.47	<0.097 J	<0.093 J	<0.00086	<1.2 J
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Cyclohexane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086 J	0.46 J
Dibromochloromethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Dichlorodifluoromethane	--	--	--	mg/kg	<0.47 J	<0.097 J	<0.093 J	<0.00086	<1.2 J
Ethylbenzene	1	41	390	mg/kg	88	19	4.5	<0.00086	320
Isopropylbenzene	--	--	--	mg/kg	3.0	1.6	0.47	<0.00086	12

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-117 10 - 11 10/25/23 SB-117(10.0-11.0) 460-291147-2	SB-117 16 - 17 10/25/23 SB-117(16.0-17.0) 460-291147-3	SB-117 20.5 - 21.5 10/25/23 SB-117(20.5-21.5) 460-291147-4	SB-118 1 - 2 10/23/23 SB-118(1.0-2.0) 460-291054-7	SB-119 11 - 12 10/25/23 SB-119(11.0-12.0) 460-291249-4
Volatile Organics (continued)									
m,p-Xylene	--	--	--	mg/kg	110	14	3.9	<0.00086	270
Methyl acetate	--	--	--	mg/kg	<2.3	<0.48	<0.46	<0.0043 J	<5.8 J
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<2.3	<0.48	<0.46	<0.0043	<5.8
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<2.3	<0.48	<0.46	<0.0043	<5.8
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Methylcyclohexane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086 J	4.2
Methylene Chloride	0.05	100	500	mg/kg	<0.47	<0.097	<0.093	<0.0017	<1.2
o-Xylene	--	--	--	mg/kg	49	6.7	1.7	<0.00086	120
Styrene	--	--	--	mg/kg	65	1.2	1.2	<0.00086	64
Tetrachloroethene	1.3	19	150	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Toluene	0.7	100	500	mg/kg	130	4.7	3.3	<0.00086	330
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Trichloroethene	0.47	21	200	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Trichlorofluoromethane	--	--	--	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.47	<0.097	<0.093	<0.00086	<1.2
Total BTEX				mg/kg	430	46	15	ND	1,200

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-119 22 - 23 10/25/23 SB-119(22.0-23.0) 460-291249-3	SB-120 13 - 14 10/24/23 SB-120(13.0-14.0) 460-291147-7	SB-120 20 - 21 10/24/23 SB-120(20.0-21.0) 460-291147-10	SB-120 22 - 23 10/24/23 SB-120(22.0-23.0) 460-291147-11	SB-121 15.5 - 16.5 10/25/23 SB-121(15.5-16.5) 460-291147-5
Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083 J	<0.10
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00099	<0.34 J [<0.42]	<0.083	<0.00083	<0.10 J
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00099	<0.34 J [<0.42]	<0.083	<0.00083	<0.10 J
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,2-Dibromoethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,2-Dichloropropane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
1,4-Dioxane	0.1	13	130	mg/kg	<0.099	<17 [<21]	<4.2	<0.083	<5.0
2-Hexanone	--	--	--	mg/kg	<0.0050	<1.7 [<2.1]	<0.42	<0.0042	<0.50
Acetone	0.05	100	500	mg/kg	0.038	3.1 [<2.1]	<0.42	0.014 J	1.2
Benzene	0.06	4.8	44	mg/kg	0.00031 J	0.68 [0.8]	0.32	0.0011	0.13
Bromochloromethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Bromodichloromethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Bromoform	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Bromomethane	--	--	--	mg/kg	<0.0020	<0.34 [<0.42]	<0.083	<0.0017	<0.10
Carbon Disulfide	--	--	--	mg/kg	<0.00099 J	<0.34 J [<0.42 J]	<0.083 J	0.0041 J	0.11 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Chlorobenzene	1.1	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Chloroethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Chloroform	0.37	49	350	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Chloromethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42 J]	<0.083 J	<0.00083	<0.10
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Cyclohexane	--	--	--	mg/kg	<0.00099 J	<0.34 [0.24 J]	<0.083	<0.00083	0.19
Dibromochloromethane	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00099 J	<0.34 J [<0.42 J]	<0.083 J	<0.00083 J	<0.10 J
Ethylbenzene	1	41	390	mg/kg	<0.00099	130 [160]	9.0	0.011	19
Isopropylbenzene	--	--	--	mg/kg	<0.00099	15 [18]	1.3	0.0017	4.6

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:		NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-119 22 - 23 10/25/23 SB-119(22.0-23.0) 460-291249-3	SB-120 13 - 14 10/24/23 SB-120(13.0-14.0) 460-291147-7	SB-120 20 - 21 10/24/23 SB-120(20.0-21.0) 460-291147-10	SB-120 22 - 23 10/24/23 SB-120(22.0-23.0) 460-291147-11	SB-121 15.5 - 16.5 10/25/23 SB-121(15.5-16.5) 460-291147-5
Volatile Organics (continued)									
m,p-Xylene	--	--	--	mg/kg	<0.00099	30 [36]	2.0	0.0023	1.6
Methyl acetate	--	--	--	mg/kg	<0.0050 J	<1.7 [<2.1]	<0.42	<0.0042	<0.50
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0082 J	<1.7 [<2.1]	<0.42	0.0070	<0.50
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0050	<1.7 [<2.1]	<0.42	<0.0042	<0.50
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Methylcyclohexane	--	--	--	mg/kg	<0.00099 J	2.1 [2.6]	0.21	<0.00083	0.95
Methylene Chloride	0.05	100	500	mg/kg	<0.0020	<0.34 [<0.42]	<0.083	<0.0017	<0.10
o-Xylene	--	--	--	mg/kg	<0.00099	43 [53]	3.0	0.0040	6.1
Styrene	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Tetrachloroethene	1.3	19	150	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Toluene	0.7	100	500	mg/kg	0.00049 J	0.56 [0.82]	0.18	0.00043 J	0.086 J
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Trichloroethene	0.47	21	200	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Trichlorofluoromethane	--	--	--	mg/kg	<0.00099	<0.34 J [<0.42]	<0.083	<0.00083	<0.10
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00099	<0.34 [<0.42]	<0.083	<0.00083	<0.10
Total BTEX				mg/kg	0.0008 J	200 [250]	15	0.019 J	27 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-121 26 - 27 10/25/23 SB-121(26.0-27.0) 460-291147-1
Volatile Organics					
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00093
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00093
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00093
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00093 J
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00093
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00093
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00093
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00093
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00093
1,2-Dibromoethane	--	--	--	mg/kg	<0.00093
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00093
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00093
1,2-Dichloropropane	--	--	--	mg/kg	<0.00093
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00093
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00093
1,4-Dioxane	0.1	13	130	mg/kg	<0.093
2-Hexanone	--	--	--	mg/kg	<0.0046
Acetone	0.05	100	500	mg/kg	0.011 J
Benzene	0.06	4.8	44	mg/kg	<0.00093
Bromochloromethane	--	--	--	mg/kg	<0.00093
Bromodichloromethane	--	--	--	mg/kg	<0.00093
Bromoform	--	--	--	mg/kg	<0.00093
Bromomethane	--	--	--	mg/kg	<0.0019
Carbon Disulfide	--	--	--	mg/kg	0.00034 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00093
Chlorobenzene	1.1	100	500	mg/kg	<0.00093
Chloroethane	--	--	--	mg/kg	<0.00093
Chloroform	0.37	49	350	mg/kg	<0.00093
Chloromethane	--	--	--	mg/kg	<0.00093 J
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00093
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00093
Cyclohexane	--	--	--	mg/kg	<0.00093
Dibromochloromethane	--	--	--	mg/kg	<0.00093
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00093
Ethylbenzene	1	41	390	mg/kg	0.00042 J
Isopropylbenzene	--	--	--	mg/kg	<0.00093

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-121 26 - 27 10/25/23 SB-121(26.0-27.0) 460-291147-1
Volatile Organics (continued)					
m,p-Xylene	--	--	--	mg/kg	0.00017 J
Methyl acetate	--	--	--	mg/kg	<0.0046
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0043 J
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0046
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00093
Methylcyclohexane	--	--	--	mg/kg	<0.00093
Methylene Chloride	0.05	100	500	mg/kg	<0.0019
o-Xylene	--	--	--	mg/kg	0.00029 J
Styrene	--	--	--	mg/kg	<0.00093
Tetrachloroethene	1.3	19	150	mg/kg	<0.00093
Toluene	0.7	100	500	mg/kg	<0.00093
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00093
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00093
Trichloroethene	0.47	21	200	mg/kg	<0.00093
Trichlorofluoromethane	--	--	--	mg/kg	<0.00093
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00093
Total BTEX				mg/kg	0.00088 J

See Notes on Page 23.

Table 1
Subsurface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Notes:
< = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
B = Analyte was also detected in the associated method blank.
D = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.
Results that exceed NYSDEC Part 375 groundwater protection criteria are presented in bold font.
Results that exceed NYSDEC Part 375 restricted residential soil criteria are shaded.
Results that exceed NYSDEC Part 375 commercial soil criteria are presented in italic font.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-100 15 - 16 10/25/23 SB-100(15.0-16.0) 460-291249-2	SB-100 16 - 17 10/25/23 SB-100(16.0-17.0) 460-291249-1	SB-101-A 10 - 11 10/26/23 SB-101-A(10.0-11.0) 460-291332-2	SB-101-A 20 - 21 10/26/23 SB-101-A(20.0-21.0) 460-291332-3	SB-101-A 26.5 - 27.5 10/26/23 SB-101-A(26.5-27.5) 460-291332-5
Semivolatile Organics									
1,1'-Biphenyl	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	27 D	1.6	1.9 J [2.8]
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.15 [<0.17]	<0.16	<0.15	<0.15	<0.14 [<0.21]
2,4-Dichlorophenol	--	--	--	mg/kg	<0.15 [<0.17]	<0.16	<0.15	<0.15	<0.14 [<0.21]
2,4-Dimethylphenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2,4-Dinitrophenol	--	--	--	mg/kg	<0.31 [<0.33]	<0.33	<0.31	<0.31	R [<0.41]
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.077 [<0.084]	<0.082	<0.077	<0.077	<0.072 J [<0.1]
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.077 [<0.084]	<0.082	<0.077	<0.077	<0.072 [<0.1]
2-Chloronaphthalene	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2-Chlorophenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2-Methylnaphthalene	--	--	--	mg/kg	0.017 J [0.024 J]	<0.41	28 D	2.7	0.13 J [<0.51]
2-Nitroaniline	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
2-Nitrophenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.15 [<0.17]	<0.16	<0.15	<0.15	<0.14 [<0.21]
3-Nitroaniline	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.31 [<0.33]	<0.33	<0.31	<0.31	R [<0.41]
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4-Chloroaniline	--	--	--	mg/kg	<0.38 J [<0.42 J]	<0.41 J	<0.38	<0.38	<0.35 [<0.51]
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4-Methylphenol	0.33	100	500	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4-Nitroaniline	--	--	--	mg/kg	<0.38 J [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
4-Nitrophenol	--	--	--	mg/kg	<0.77 [<0.84]	<0.82	<0.77	<0.77	<0.72 [<1]
Acenaphthene	98	100	500	mg/kg	<0.38 [<0.42]	0.11 J	160 D	8.2	20 D [20 D]
Acenaphthylene	107	100	500	mg/kg	<0.38 [<0.42]	0.012 J	17 D	1.2	11 D [11]
Acetophenone	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Anthracene	1,000	100	500	mg/kg	<0.38 [<0.42]	0.058 J	82 D	5.0	23 D [19 D]
Atrazine	--	--	--	mg/kg	<0.15 [<0.17]	<0.16	<0.15	<0.15	<0.14 [<0.21]
Benzaldehyde	--	--	--	mg/kg	<0.38 J [<0.42 J]	<0.41 J	<0.38 J	<0.38 J	<0.35 J [<0.51 J]
Benzo(a)anthracene	1	1	5.6	mg/kg	<0.038 [<0.042]	<0.041	46 D	3.4	20 D [17 D]
Benzo(a)pyrene	22	1	1	mg/kg	<0.038 [<0.042]	<0.041	39 D	2.7	16 D [13 D]
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	<0.038 [<0.042]	<0.041	28 D	2.0	12 D [10 D]

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-100 15 - 16 10/25/23 SB-100(15.0-16.0) 460-291249-2	SB-100 16 - 17 10/25/23 SB-100(16.0-17.0) 460-291249-1	SB-101-A 10 - 11 10/26/23 SB-101-A(10.0-11.0) 460-291332-2	SB-101-A 20 - 21 10/26/23 SB-101-A(20.0-21.0) 460-291332-3	SB-101-A 26.5 - 27.5 10/26/23 SB-101-A(26.5-27.5) 460-291332-5
Semivolatile Organics (continued)									
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	<0.38 [<0.42]	<0.41	4.8	1.0	2.6 J [5.4 J]
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	<0.038 [<0.042]	<0.041	11 D	0.97	4.5 J [4.5]
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.038 [<0.042]	<0.041	<0.038	<0.038	<0.035 [<0.051]
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	0.021 J	<0.35 [<0.51]
Butylbenzylphthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Caprolactam	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Carbazole	--	--	--	mg/kg	<0.38 [<0.42]	0.054 J	4.3	0.36 J	0.22 J [0.23 J]
Chrysene	1	3.9	56	mg/kg	<0.38 [<0.42]	<0.41	43 D	3.3	17 D [15 D]
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	<0.038 [<0.042]	<0.041	1.5	0.30	0.66 J [1.5 J]
Dibenzofuran	210	59	350	mg/kg	<0.38 [<0.42]	0.014 J	15 D	0.76	7.6 J [9.3]
Diethylphthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Dimethylphthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Di-n-Butylphthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [0.056 J]
Di-n-Octylphthalate	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Fluoranthene	1,000	100	500	mg/kg	<0.38 [<0.42]	0.15 J	90 D	6.2	36 D [30 D]
Fluorene	386	100	500	mg/kg	<0.38 [<0.42]	0.059 J	89 D	5.0	25 D [22 D]
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.038 [<0.042]	<0.041	<0.038	<0.038	<0.035 [<0.051]
Hexachlorobutadiene	--	--	--	mg/kg	<0.077 [<0.084]	<0.082	<0.077	<0.077	<0.072 [<0.1]
Hexachlorocyclopentadiene	--	--	--	mg/kg	R [R]	R	R	R	R [R]
Hexachloroethane	--	--	--	mg/kg	<0.038 [<0.042]	<0.041	<0.038	<0.038	<0.035 [<0.051]
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	<0.038 [<0.042]	<0.041	5.5	1.0	2.7 J [5.9 J]
Isophorone	--	--	--	mg/kg	<0.15 [<0.17]	<0.16	<0.15	<0.15	<0.14 [<0.21]
Naphthalene	12	100	500	mg/kg	0.11 J [0.14 J]	0.033 J	180 D	14 D	0.43 [0.47 J]
Nitrobenzene	--	--	--	mg/kg	<0.038 [<0.042]	<0.041	<0.038	<0.038	<0.035 [<0.051]
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.038 [<0.042]	<0.041	<0.038	<0.038	<0.035 [<0.051]
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.31 [<0.33]	<0.33	<0.31	<0.31	<0.29 [<0.41]
Phenanthrene	1,000	100	500	mg/kg	<0.38 [<0.42]	0.046 J	340 D	15 D	93 D [82 D]
Phenol	0.33	100	500	mg/kg	<0.38 [<0.42]	<0.41	<0.38	<0.38	<0.35 [<0.51]
Pyrene	1,000	100	500	mg/kg	<0.38 [<0.42]	0.19 J	150 D	8.4 D	52 D [44 D]
Total PAHs				mg/kg	0.13 J [0.16 J]	0.66 J	1,300	80	340 J [300 J]

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-102 12 - 13 10/19/23 SB-102(12.0-13.0)-20231019 460-290809-1	SB-102 22 - 23 10/19/23 SB-102(22.0-23.0)-20231019 460-290809-2	SB-103 11.5 - 12.5 10/24/23 SB-103(11.5-12.5) 460-291054-3	SB-103 15 - 16 10/24/23 SB-103(15.0-16.0) 460-291054-4	SB-103 18 - 18.5 10/24/23 SB-103(18.0-18.5) 460-291054-2
Semivolatile Organics									
1,1'-Biphenyl	--	--	--	mg/kg	1.6	<0.38	62	3.6	0.091 J
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.16	<0.15	<1.6	<0.16	<0.15
2,4-Dichlorophenol	--	--	--	mg/kg	<0.16	<0.15	<1.6	<0.16	<0.15
2,4-Dimethylphenol	--	--	--	mg/kg	<0.41 J	<0.38 J	0.57 J	0.14 J	<0.37
2,4-Dinitrophenol	--	--	--	mg/kg	<0.33	<0.31	<3.1	<0.32	<0.30
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.082	<0.077	<0.78	<0.081	<0.076
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.082	<0.077	<0.78	<0.081	<0.076
2-Chloronaphthalene	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2-Chlorophenol	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2-Methylnaphthalene	--	--	--	mg/kg	0.70	<0.38	420 D	7.7	0.061 J
2-Nitroaniline	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
2-Nitrophenol	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.16	<0.15	<1.6	<0.16	<0.15
3-Nitroaniline	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.33	<0.31	<3.1	<0.32	<0.30
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4-Chloroaniline	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4-Methylphenol	0.33	100	500	mg/kg	0.029 J	<0.38	0.34 J	0.32 J	<0.37
4-Nitroaniline	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
4-Nitrophenol	--	--	--	mg/kg	<0.82	<0.77	<7.8	<0.81	<0.76
Acenaphthene	98	100	500	mg/kg	9.6	<0.38	210 D	15 D	0.89
Acenaphthylene	107	100	500	mg/kg	2.1	<0.38	180 D	6.0	0.15 J
Acetophenone	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Anthracene	1,000	100	500	mg/kg	5.8	<0.38	570 D	16 D	0.68
Atrazine	--	--	--	mg/kg	<0.16	<0.15	<1.6	<0.16	<0.15
Benzaldehyde	--	--	--	mg/kg	<0.41 J	<0.38 J	<3.9 J	<0.40 J	<0.37 J
Benzo(a)anthracene	1	1	5.6	mg/kg	3.9	<0.038	120 D	7.1	0.49
Benzo(a)pyrene	22	1	1	mg/kg	3.2	<0.038	100 D	6.1	0.39
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	2.4	<0.038	76	4.6	0.29

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-102 12 - 13 10/19/23 SB-102(12.0-13.0)-20231019 460-290809-1	SB-102 22 - 23 10/19/23 SB-102(22.0-23.0)-20231019 460-290809-2	SB-103 11.5 - 12.5 10/24/23 SB-103(11.5-12.5) 460-291054-3	SB-103 15 - 16 10/24/23 SB-103(15.0-16.0) 460-291054-4	SB-103 18 - 18.5 10/24/23 SB-103(18.0-18.5) 460-291054-2
Semivolatile Organics (continued)									
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	1.2	<0.38	32	2.3	0.13 J
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	1.0	<0.038	28	1.7	0.10
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.041	<0.038	<0.39	<0.040	<0.037
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Butylbenzylphthalate	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Caprolactam	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Carbazole	--	--	--	mg/kg	0.31 J	<0.38	24	0.85	<0.37
Chrysene	1	3.9	56	mg/kg	3.6	<0.38	140 D	6.1	0.43
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.26	<0.038	9.3	0.67	0.038
Dibenzofuran	210	59	350	mg/kg	0.93	<0.38	24	1.9	0.083 J
Diethylphthalate	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Dimethylphthalate	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Di-n-Butylphthalate	--	--	--	mg/kg	0.12 J	<0.38	<3.9	<0.40	0.034 J
Di-n-Octylphthalate	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
Fluoranthene	1,000	100	500	mg/kg	7.1	<0.38	230 D	13 D	0.92
Fluorene	386	100	500	mg/kg	3.7	<0.38	230 D	12 D	0.59
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.041	<0.038	<0.39	<0.040	<0.037
Hexachlorobutadiene	--	--	--	mg/kg	<0.082	<0.077	<0.78	<0.081	<0.076
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.041	<0.038	<0.39	<0.040	<0.037
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	1.3	<0.038	34	2.5	0.13
Isophorone	--	--	--	mg/kg	<0.16	<0.15	<1.6	<0.16	<0.15
Naphthalene	12	100	500	mg/kg	1.4	<0.38	930 D	25 D	0.14 J
Nitrobenzene	--	--	--	mg/kg	<0.041	<0.038	<0.39	<0.040	<0.037
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.041	<0.038	<0.39	<0.040	<0.037
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.41	<0.38	<3.9	<0.40	<0.37
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	0.017 J	<0.38	<3.9	0.13 J	<0.37
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.33	<0.31	<3.1	<0.32	<0.30
Phenanthrene	1,000	100	500	mg/kg	19 D	<0.38	640 D	35 D	2.5
Phenol	0.33	100	500	mg/kg	<0.41	<0.38	<3.9	0.34 J	<0.37
Pyrene	1,000	100	500	mg/kg	9.7 D	<0.38	310 D	19 D	1.6
Total PAHs				mg/kg	76	ND	4,300	180	9.5 J

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-104-A 11 - 12 10/26/23 SB-104-A(11.0-12.0) 460-291332-4	SB-104-A 17 - 17.5 10/26/23 SB-104-A(17.0-17.5) 460-291332-6	SB-105 2 - 2.8 10/24/23 SB-105(2.0-2.8) 460-291054-1	SB-106 13.5 - 14 10/18/23 SB-106(13.5-14.0)-20231018 460-290738-2	SB-106 20 - 20.5 10/18/23 SB-106(20.0-20.5)-20231018 460-290738-3
Semivolatile Organics									
1,1'-Biphenyl	--	--	--	mg/kg	5.1	2.2	0.014 J	11 D	1.2
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.17	<0.14	<0.14	<0.15	<0.15
2,4-Dichlorophenol	--	--	--	mg/kg	<0.17	<0.14	<0.14	<0.15	<0.15
2,4-Dimethylphenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38 J	<0.37 J
2,4-Dinitrophenol	--	--	--	mg/kg	<0.33	<0.27	<0.28	<0.30 J	<0.30 J
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.083	<0.069	<0.070	<0.076	<0.076
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.083	<0.069	<0.070	<0.076	<0.076
2-Chloronaphthalene	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2-Chlorophenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2-Methylnaphthalene	--	--	--	mg/kg	15 D	7.4	0.056 J	21 D	1.9
2-Nitroaniline	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
2-Nitrophenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.17	<0.14	<0.14	<0.15	<0.15
3-Nitroaniline	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.33	<0.27	<0.28	<0.30	<0.30
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Chloroaniline	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Methylphenol	0.33	100	500	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Nitroaniline	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
4-Nitrophenol	--	--	--	mg/kg	<0.83	<0.69	<0.70	<0.76	<0.76
Acenaphthene	98	100	500	mg/kg	38 D	11 D	0.071 J	49 D	6.3
Acenaphthylene	107	100	500	mg/kg	2.6	1.5	0.25 J	4.7	0.67
Acetophenone	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Anthracene	1,000	100	500	mg/kg	18 D	7.5	0.36	21 D	2.7
Atrazine	--	--	--	mg/kg	<0.17	<0.14	<0.14	<0.15 J	<0.15 J
Benzaldehyde	--	--	--	mg/kg	<0.41 J	<0.34 J	<0.34 J	<0.38 J	<0.37 J
Benzo(a)anthracene	1	1	5.6	mg/kg	9.9	5.0	1.2	15 D	1.7
Benzo(a)pyrene	22	1	1	mg/kg	8.1	4.3	1.2	13 D	1.5
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	5.5	2.8	1.6	9.8 D	1.2

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-104-A 11 - 12 10/26/23 SB-104-A(11.0-12.0) 460-291332-4	SB-104-A 17 - 17.5 10/26/23 SB-104-A(17.0-17.5) 460-291332-6	SB-105 2 - 2.8 10/24/23 SB-105(2.0-2.8) 460-291054-1	SB-106 13.5 - 14 10/18/23 SB-106(13.5-14.0)-20231018 460-290738-2	SB-106 20 - 20.5 10/18/23 SB-106(20.0-20.5)-20231018 460-290738-3
Semivolatile Organics (continued)									
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	2.7	1.5	0.53	5.0	0.60
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	2.0	1.2	0.59	3.6	0.37
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.041	<0.034	<0.034	<0.038	<0.037
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.41	<0.34	0.045 J	<0.38	<0.37
Butylbenzylphthalate	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Caprolactam	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Carbazole	--	--	--	mg/kg	0.70	0.40	0.055 J	1.7	0.42
Chrysene	1	3.9	56	mg/kg	8.3	4.4	1.2	12 D	1.3
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.65	0.33	0.18	1.4	0.16
Dibenzofuran	210	59	350	mg/kg	1.9	0.85	0.070 J	4.8	0.64
Diethylphthalate	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Dimethylphthalate	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Di-n-Butylphthalate	--	--	--	mg/kg	<0.41	<0.34	0.027 J	<0.38	0.087 J
Di-n-Octylphthalate	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Fluoranthene	1,000	100	500	mg/kg	19 D	6.1 D	2.2	29 D	3.3
Fluorene	386	100	500	mg/kg	18 D	7.9	0.15 J	25 D	3.1
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.041	<0.034	<0.034	<0.038	<0.037
Hexachlorobutadiene	--	--	--	mg/kg	<0.083	<0.069	<0.070	<0.076	<0.076
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.041	<0.034	<0.034	<0.038	<0.037
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	2.7	1.4	0.67	5.0	0.58
Isophorone	--	--	--	mg/kg	<0.17	<0.14	<0.14	<0.15	<0.15
Naphthalene	12	100	500	mg/kg	68 D	6.8 D	0.054 J	110 D	12 D
Nitrobenzene	--	--	--	mg/kg	<0.041	<0.034	<0.034	<0.038	<0.037
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.041	<0.034	<0.034	<0.038	<0.037
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.33	<0.27	<0.28	<0.30	<0.30
Phenanthrene	1,000	100	500	mg/kg	66 D	20 D	1.1	79 D	9.1 D
Phenol	0.33	100	500	mg/kg	<0.41	<0.34	<0.34	<0.38	<0.37
Pyrene	1,000	100	500	mg/kg	31 D	9.7 D	2.2	39 D	4.2
Total PAHs				mg/kg	320	99	14 J	440	51

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-107 12.5 - 13 10/19/23 SB-107(12.5-13)-20231019 460-290738-5	SB-107 15 - 16 10/19/23 SB-107(15-16)-20231019 460-290738-6	SB-108 5 - 6 10/19/23 SB-108(5.0-6.0)-20231019 460-290809-3	SB-109 2 - 3 10/20/23 SB-109(2.0-3.0) 460-290809-4	SB-109-A 1 - 2 10/26/23 SB-109-A(1.0-2.0) 460-291332-1
Semivolatile Organics									
1,1'-Biphenyl	--	--	--	mg/kg	5.1	3.4	<0.36	<0.40	0.012 J
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.15	<0.16	<0.15	<0.16	<0.14
2,4-Dichlorophenol	--	--	--	mg/kg	<0.15	<0.16	<0.15	<0.16	<0.14
2,4-Dimethylphenol	--	--	--	mg/kg	<0.37 J	<0.40 J	<0.36 J	<0.40 J	<0.34
2,4-Dinitrophenol	--	--	--	mg/kg	<0.30 J	<0.32 J	<0.29	<0.32	<0.28
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.075	<0.081	<0.074	<0.081	<0.070
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.075	<0.081	<0.074	<0.081	<0.070
2-Chloronaphthalene	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2-Chlorophenol	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2-Methylnaphthalene	--	--	--	mg/kg	0.29 J	0.32 J	<0.36	0.031 J	0.023 J
2-Nitroaniline	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
2-Nitrophenol	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.15	<0.16	<0.15	<0.16	<0.14
3-Nitroaniline	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.30	<0.32	<0.29	<0.32	<0.28
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Chloroaniline	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Methylphenol	0.33	100	500	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Nitroaniline	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
4-Nitrophenol	--	--	--	mg/kg	<0.75	<0.81	<0.74	<0.81	<0.70
Acenaphthene	98	100	500	mg/kg	26 D	20 D	0.023 J	0.015 J	0.032 J
Acenaphthylene	107	100	500	mg/kg	5.1	3.6	0.017 J	0.022 J	0.097 J
Acetophenone	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Anthracene	1,000	100	500	mg/kg	19 D	13 D	0.039 J	0.032 J	0.069 J
Atrazine	--	--	--	mg/kg	<0.15 J	<0.16 J	<0.15	<0.16	<0.14
Benzaldehyde	--	--	--	mg/kg	<0.37 J	<0.40 J	<0.36 J	<0.40 J	<0.34 J
Benzo(a)anthracene	1	1	5.6	mg/kg	15 D	10 D	0.084	0.12	0.13
Benzo(a)pyrene	22	1	1	mg/kg	14 D	9.0	0.084	0.17	0.18
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	11 D	7.4	0.099	0.26	0.22

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-107 12.5 - 13 10/19/23 SB-107(12.5-13)-20231019 460-290738-5	SB-107 15 - 16 10/19/23 SB-107(15-16)-20231019 460-290738-6	SB-108 5 - 6 10/19/23 SB-108(5.0-6.0)-20231019 460-290809-3	SB-109 2 - 3 10/20/23 SB-109(2.0-3.0) 460-290809-4	SB-109-A 1 - 2 10/26/23 SB-109-A(1.0-2.0) 460-291332-1
Semivolatile Organics (continued)									
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	4.7	3.0	0.047 J	0.090 J	0.063 J
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	3.5	3.0	0.033 J	0.075	0.10
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.037	<0.040	<0.036	<0.040	<0.034
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	0.067 J	<0.40	0.033 J	0.22 J	<0.34
Butylbenzylphthalate	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Caprolactam	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Carbazole	--	--	--	mg/kg	0.73	0.62	<0.36	<0.40	0.013 J
Chrysene	1	3.9	56	mg/kg	12 D	8.3	0.091 J	0.27 J	0.18 J
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	1.2	0.94	<0.036	0.025 J	0.016 J
Dibenzofuran	210	59	350	mg/kg	4.9	2.8	<0.36	<0.40	<0.34
Diethylphthalate	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Dimethylphthalate	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Di-n-Butylphthalate	--	--	--	mg/kg	<0.37	<0.40	<0.36	0.14 J	<0.34
Di-n-Octylphthalate	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Fluoranthene	1,000	100	500	mg/kg	31 D	21 D	0.15 J	0.26 J	0.23 J
Fluorene	386	100	500	mg/kg	20 D	14 D	0.023 J	0.027 J	0.024 J
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.037	<0.040	<0.036	<0.040	<0.034
Hexachlorobutadiene	--	--	--	mg/kg	<0.075	<0.081	<0.074	<0.081	<0.070
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.037	<0.040	<0.036	<0.040	<0.034
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	5.2	3.4	0.075	0.091	0.094
Isophorone	--	--	--	mg/kg	<0.15	<0.16	<0.15	<0.16	<0.14
Naphthalene	12	100	500	mg/kg	1.7	2.3	0.0076 J	0.018 J	0.16 J
Nitrobenzene	--	--	--	mg/kg	<0.037	<0.040	<0.036	<0.040	<0.034
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.037	<0.040	<0.036	<0.040	<0.034
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.30	<0.32	<0.29	<0.32	<0.28
Phenanthrene	1,000	100	500	mg/kg	67 D	42 D	0.13 J	0.12 J	0.085 J
Phenol	0.33	100	500	mg/kg	<0.37	<0.40	<0.36	<0.40	<0.34
Pyrene	1,000	100	500	mg/kg	36 D	25 D	0.14 J	0.27 J	0.20 J
Total PAHs				mg/kg	270 J	190 J	1 J	1.9 J	1.9 J

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-110 7.5 - 8 10/18/23 SB-110 (7.5-8.0)-20231018 460-290692-1	SB-110 16 - 16.5 10/18/23 SB-110 (16.0-16.5)-20231018 460-290692-2	SB-112 10 - 10.5 10/18/23 SB-112(10.0-10.5)-20231018 460-290738-1	SB-112 15 - 15.5 10/18/23 SB-112(15.0-15.5)-20231018 460-290738-4
Semivolatile Organics								
1,1'-Biphenyl	--	--	--	mg/kg	<0.35	6.5	0.12 J	1.0
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.14	<0.14	<0.16	<0.15
2,4-Dichlorophenol	--	--	--	mg/kg	<0.14	<0.14	<0.16	<0.15
2,4-Dimethylphenol	--	--	--	mg/kg	<0.35	<0.35	<0.39 J	<0.38 J
2,4-Dinitrophenol	--	--	--	mg/kg	<0.28 J	<0.28 J	<0.31 J	<0.31 J
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.070	<0.072	<0.079	<0.077
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.070	<0.072	<0.079	<0.077
2-Chloronaphthalene	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2-Chlorophenol	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2-Methylnaphthalene	--	--	--	mg/kg	<0.35	1.5	0.33 J	0.91
2-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
2-Nitrophenol	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.14	<0.14	<0.16	<0.15
3-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.28	<0.28	<0.31	<0.31
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4-Chloroaniline	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4-Methylphenol	0.33	100	500	mg/kg	0.046 J	<0.35	<0.39	<0.38
4-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
4-Nitrophenol	--	--	--	mg/kg	<0.70	<0.72	<0.79	<0.77
Acenaphthene	98	100	500	mg/kg	14 D	35 D	7.1	5.0
Acenaphthylene	107	100	500	mg/kg	1.5	3.3	1.0	0.67
Acetophenone	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Anthracene	1,000	100	500	mg/kg	3.8	16 D	4.4	2.7
Atrazine	--	--	--	mg/kg	<0.14	<0.14	<0.16 J	<0.15 J
Benzaldehyde	--	--	--	mg/kg	<0.35 J	<0.35	<0.39 J	<0.38 J
Benzo(a)anthracene	1	1	5.6	mg/kg	3.7	11 D	2.8	1.9
Benzo(a)pyrene	22	1	1	mg/kg	2.7 J	10 D	2.4	1.7
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	2.2	7.2	1.9	1.3

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-110 7.5 - 8 10/18/23 SB-110 (7.5-8.0)-20231018 460-290692-1	SB-110 16 - 16.5 10/18/23 SB-110 (16.0-16.5)-20231018 460-290692-2	SB-112 10 - 10.5 10/18/23 SB-112(10.0-10.5)-20231018 460-290738-1	SB-112 15 - 15.5 10/18/23 SB-112(15.0-15.5)-20231018 460-290738-4
Semivolatile Organics (continued)								
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.71	2.6	0.94	0.64
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.82	2.4	0.64	0.49
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.035	<0.035	<0.039	<0.038
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Butylbenzylphthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Caprolactam	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Carbazole	--	--	--	mg/kg	<0.35	1.3	0.41	0.20 J
Chrysene	1	3.9	56	mg/kg	3.2	10 D	2.5	1.6
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.22 J	0.68	0.25	0.13
Dibenzofuran	210	59	350	mg/kg	1.3	3.0	0.98	0.59
Diethylphthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Dimethylphthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Di-n-Butylphthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Di-n-Octylphthalate	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
Fluoranthene	1,000	100	500	mg/kg	6.6	22 D	5.2	3.6
Fluorene	386	100	500	mg/kg	<0.35	19 D	3.1	2.6
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.035	<0.035	<0.039	<0.038
Hexachlorobutadiene	--	--	--	mg/kg	<0.070	<0.072	<0.079	<0.077
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.035	<0.035	<0.039	<0.038
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.78	2.6	0.98	0.69
Isophorone	--	--	--	mg/kg	<0.14	<0.14	<0.16	<0.15
Naphthalene	12	100	500	mg/kg	0.30 J	33 D	1.3	4.8
Nitrobenzene	--	--	--	mg/kg	<0.035	<0.035	<0.039	<0.038
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.035	<0.035	<0.039	<0.038
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.35	<0.35	<0.39	<0.38
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	0.024 J	<0.35	<0.39	<0.38
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.28	<0.28	<0.31	<0.31
Phenanthrene	1,000	100	500	mg/kg	6.9	61 D	13 D	8.9
Phenol	0.33	100	500	mg/kg	<0.35	<0.35	<0.39	<0.38
Pyrene	1,000	100	500	mg/kg	8.9 D	31 D	7.2	4.8
Total PAHs				mg/kg	56 J	270	55 J	42

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-113 7 - 8 10/24/23 SB-113(7.0-8.0) 460-291054-5	SB-114 1 - 1.5 10/23/23 SB-114(1.0-1.5) 460-291054-8	SB-115 5 - 6 10/24/23 SB-115(5.0-6.0) 460-291147-8	SB-115 6.5 - 7.5 10/24/23 SB-115(6.5-7.5) 460-291147-9	SB-116 2 - 3 10/23/23 SB-116(2.0-3.0) 460-291054-6	SB-117 10 - 11 10/25/23 SB-117(10.0-11.0) 460-291147-2	SB-117 16 - 17 10/25/23 SB-117(16.0-17.0) 460-291147-3
Semivolatile Organics											
1,1'-Biphenyl	--	--	--	mg/kg	<0.40	<0.37	1.2	1.9	<0.36	24	5.7
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.16	<0.15	<0.13	<0.14	<0.14	<1.5	<0.15
2,4-Dichlorophenol	--	--	--	mg/kg	<0.16	<0.15	<0.13	<0.14	<0.14	<1.5	<0.15
2,4-Dimethylphenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2,4-Dinitrophenol	--	--	--	mg/kg	<0.32	<0.30	<0.27	<0.28	<0.29	<2.9	<0.30
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.081	<0.076	<0.067	<0.070	<0.073	<0.74	<0.075
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.081	<0.076	<0.067	<0.070	<0.073	<0.74	<0.075
2-Chloronaphthalene	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2-Chlorophenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2-Methylnaphthalene	--	--	--	mg/kg	<0.40	<0.37	2.5	0.050 J	0.053 J	320 D	54 D
2-Nitroaniline	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
2-Nitrophenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.16	<0.15	<0.13	<0.14	<0.14	<1.5	<0.15
3-Nitroaniline	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.32	<0.30	<0.27	<0.28	<0.29	<2.9	<0.30
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4-Chloroaniline	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4-Methylphenol	0.33	100	500	mg/kg	<0.40	<0.37	0.037 J	<0.35	<0.36	<3.6	<0.37
4-Nitroaniline	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
4-Nitrophenol	--	--	--	mg/kg	<0.81	<0.76	<0.67	<0.70	<0.73	<7.4	<0.75
Acenaphthene	98	100	500	mg/kg	0.032 J	<0.37	8.0	3.9	0.030 J	46	28 D
Acenaphthylene	107	100	500	mg/kg	0.042 J	<0.37	15 D	3.4	0.018 J	81	4.1
Acetophenone	--	--	--	mg/kg	<0.40	<0.37	0.097 J	<0.35	<0.36	<3.6	<0.37
Anthracene	1,000	100	500	mg/kg	0.021 J	<0.37	12 D	12 D	0.035 J	48	8.9 D
Atrazine	--	--	--	mg/kg	<0.16	<0.15	<0.13	<0.14	<0.14	<1.5	<0.15
Benzaldehyde	--	--	--	mg/kg	<0.40 J	<0.37 J	<0.33 J	<0.35 J	<0.36 J	<3.6 J	<0.37 J
Benzo(a)anthracene	1	1	5.6	mg/kg	0.18	0.038	21 D	8.4	<0.036	24	6.5
Benzo(a)pyrene	22	1	1	mg/kg	0.27	0.037	31 D	6.9	<0.036	21	5.8
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.24	0.039	24 D	5.2	<0.036	16	4.0

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-113 7 - 8 10/24/23 SB-113(7.0-8.0) 460-291054-5	SB-114 1 - 1.5 10/23/23 SB-114(1.0-1.5) 460-291054-8	SB-115 5 - 6 10/24/23 SB-115(5.0-6.0) 460-291147-8	SB-115 6.5 - 7.5 10/24/23 SB-115(6.5-7.5) 460-291147-9	SB-116 2 - 3 10/23/23 SB-116(2.0-3.0) 460-291054-6	SB-117 10 - 11 10/25/23 SB-117(10.0-11.0) 460-291147-2	SB-117 16 - 17 10/25/23 SB-117(16.0-17.0) 460-291147-3
Semivolatile Organics (continued)											
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.12 J	0.021 J	9.8 D	2.2	<0.36	5.0	2.1
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.10	0.014 J	7.3	1.9	<0.036	6.0	1.5
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.040	<0.037	<0.033	<0.035	<0.036	<0.36	<0.037
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.40	0.034 J	<0.33	<0.35	0.18 J	<3.6	<0.37
Butylbenzylphthalate	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Caprolactam	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Carbazole	--	--	--	mg/kg	<0.40	<0.37	0.16 J	0.057 J	<0.36	2.2 J	1.7
Chrysene	1	3.9	56	mg/kg	0.16 J	0.032 J	21 D	7.8	<0.36	22	5.7
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.036 J	<0.037	3.2	0.70	<0.036	1.6	0.60
Dibenzofuran	210	59	350	mg/kg	<0.40	<0.37	0.58	1.0	<0.36	7.6	1.7
Diethylphthalate	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Dimethylphthalate	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Di-n-Butylphthalate	--	--	--	mg/kg	0.024 J	<0.37	<0.33	0.11 J	0.026 J	<3.6	0.082 J
Di-n-Octylphthalate	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Fluoranthene	1,000	100	500	mg/kg	0.12 J	0.047 J	25 D	14 D	<0.36	45	10 D
Fluorene	386	100	500	mg/kg	<0.40	<0.37	6.6	4.3	0.083 J	62	14 D
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.040	<0.037	<0.033	<0.035	<0.036	<0.36	<0.037
Hexachlorobutadiene	--	--	--	mg/kg	<0.081	<0.076	<0.067	<0.070	<0.073	<0.74	<0.075
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.040	<0.037	<0.033	<0.035	<0.036	<0.36	<0.037
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.13	0.022 J	12 D	2.4	<0.036	6.7	2.2
Isophorone	--	--	--	mg/kg	<0.16	<0.15	<0.13	<0.14	<0.14	<1.5	<0.15
Naphthalene	12	100	500	mg/kg	0.0083 J	<0.37	4.1	0.094 J	<0.36	640 D	160 D
Nitrobenzene	--	--	--	mg/kg	<0.040	<0.037	<0.033	<0.035	<0.036	<0.36	<0.037
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.040	<0.037	<0.033	<0.035	<0.036	<0.36	<0.037
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.40	<0.37	<0.33	<0.35	<0.36	<3.6	<0.37
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.32	<0.30	<0.27	<0.28	<0.29	<2.9	<0.30
Phenanthrene	1,000	100	500	mg/kg	0.016 J	0.026 J	27 D	50 D	0.14 J	190 D	34 D
Phenol	0.33	100	500	mg/kg	<0.40	<0.37	0.029 J	<0.35	<0.36	<3.6	<0.37
Pyrene	1,000	100	500	mg/kg	0.23 J	0.065 J	40 D	21 D	0.039 J	64	15 D
Total PAHs				mg/kg	1.7 J	0.34 J	270	140 J	0.4 J	1,600	360

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-117 20.5 - 21.5 10/25/23 SB-117(20.5-21.5) 460-291147-4	SB-118 1 - 2 10/23/23 SB-118(1.0-2.0) 460-291054-7	SB-119 11 - 12 10/25/23 SB-119(11.0-12.0) 460-291249-4	SB-119 22 - 23 10/25/23 SB-119(22.0-23.0) 460-291249-3	SB-120 13 - 14 10/24/23 SB-120(13.0-14.0) 460-291147-7	SB-120 20 - 21 10/24/23 SB-120(20.0-21.0) 460-291147-10
Semivolatile Organics										
1,1'-Biphenyl	--	--	--	mg/kg	0.99	<0.35	37	1.3	22 [23]	2.9
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.14	<0.14	<1.4	<0.17	<1.4 [<1.4]	<0.13
2,4-Dichlorophenol	--	--	--	mg/kg	<0.14	<0.14	<1.4	<0.17	<1.4 [<1.4]	<0.13
2,4-Dimethylphenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2,4-Dinitrophenol	--	--	--	mg/kg	<0.28	<0.28	<2.9	<0.33	R [<2.8]	<0.27
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.071	<0.071	<0.72	<0.084	<0.69 J [<0.71]	<0.067
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.071	<0.071	<0.72	<0.084	<0.69 J [<0.71]	<0.067
2-Chloronaphthalene	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2-Chlorophenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2-Methylnaphthalene	--	--	--	mg/kg	12 D	<0.35	490 D	7.8	200 D [180 D]	9.3 D
2-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
2-Nitrophenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 J [<3.5]	<0.33
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.14	<0.14	<1.4	<0.17	<1.4 [<1.4]	<0.13
3-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	1.7 J	<0.41	<3.4 [<3.5]	<0.33
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.28	<0.28	<2.9	<0.33	R [<2.8]	<0.27
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
4-Chloroaniline	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41 J	<3.4 [<3.5]	<0.33
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
4-Methylphenol	0.33	100	500	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
4-Nitroaniline	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
4-Nitrophenol	--	--	--	mg/kg	<0.71	<0.71	<7.2	<0.84	<6.9 [<7.1]	<0.67
Acenaphthene	98	100	500	mg/kg	3.8	<0.35	68	0.63	150 D [130 D]	15 D
Acenaphthylene	107	100	500	mg/kg	1.8	0.013 J	160 D	3.1	12 [12]	2.6
Acetophenone	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Anthracene	1,000	100	500	mg/kg	1.8	0.012 J	63	3.1	47 [49]	10 D
Atrazine	--	--	--	mg/kg	<0.14	<0.14	<1.4	<0.17	<1.4 [<1.4]	<0.13
Benzaldehyde	--	--	--	mg/kg	<0.35 J	<0.35 J	<3.6 J	<0.41 J	<3.4 J [<3.5 J]	<0.33 J
Benzo(a)anthracene	1	1	5.6	mg/kg	0.89	0.12	35	2.2	25 [25]	6.7
Benzo(a)pyrene	22	1	1	mg/kg	0.75	0.14	29	1.9	21 [20]	5.8
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.55	0.17	23	1.5	17 [14]	4.4

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-117 20.5 - 21.5 10/25/23 SB-117(20.5-21.5) 460-291147-4	SB-118 1 - 2 10/23/23 SB-118(1.0-2.0) 460-291054-7	SB-119 11 - 12 10/25/23 SB-119(11.0-12.0) 460-291249-4	SB-119 22 - 23 10/25/23 SB-119(22.0-23.0) 460-291249-3	SB-120 13 - 14 10/24/23 SB-120(13.0-14.0) 460-291147-7	SB-120 20 - 21 10/24/23 SB-120(20.0-21.0) 460-291147-10
Semivolatile Organics (continued)										
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.22 J	0.071 J	7.4	0.64	5.7 [4.9]	1.9
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.20	0.063	8.2	0.62	5.7 J [5.8]	1.7
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.035	<0.035	<0.36	<0.041	<0.34 [<0.35]	<0.033
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Butylbenzylphthalate	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Caprolactam	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	R [<3.5]	<0.33
Carbazole	--	--	--	mg/kg	0.13 J	<0.35	2.5 J	0.38 J	1.1 J [1.2 J]	0.29 J
Chrysene	1	3.9	56	mg/kg	0.80	0.13 J	32	1.9	23 [22]	6.1
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.075	0.023 J	2.8	0.20	1.9 [1.4]	0.60
Dibenzofuran	210	59	350	mg/kg	0.27 J	<0.35	10	0.94	7.1 [6.5]	1.2
Diethylphthalate	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Dimethylphthalate	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Di-n-Butylphthalate	--	--	--	mg/kg	0.057 J	0.049 J	<3.6	<0.41	<3.4 [<3.5]	0.15 J
Di-n-Octylphthalate	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Fluoranthene	1,000	100	500	mg/kg	1.8	0.22 J	58	3.9	48 [51]	12 D
Fluorene	386	100	500	mg/kg	2.5	<0.35	83	3.6	58 [59]	7.7
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.035	<0.035	<0.36	<0.041	<0.34 [<0.35]	<0.033
Hexachlorobutadiene	--	--	--	mg/kg	<0.071	<0.071	<0.72	<0.084	<0.69 [<0.71]	<0.067
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R [R]	R
Hexachloroethane	--	--	--	mg/kg	<0.035	<0.035	<0.36	<0.041	<0.34 J [<0.35]	<0.033
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.24	0.095	8.6	0.75	6.3 J [5.5]	2.1
Isophorone	--	--	--	mg/kg	<0.14	<0.14	<1.4	<0.17	<1.4 [<1.4]	<0.13
Naphthalene	12	100	500	mg/kg	27 D	0.014 J	1,000 D	19 D	670 D [740 D]	33 D
Nitrobenzene	--	--	--	mg/kg	<0.035	<0.035	<0.36	<0.041	<0.34 [<0.35]	<0.033
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.035	<0.035	<0.36	<0.041	<0.34 [<0.35]	<0.033
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.28	<0.28	<2.9	<0.33	<2.8 [<2.8]	<0.27
Phenanthrene	1,000	100	500	mg/kg	6.1	0.11 J	280 D	9.9	200 D [180 D]	32 D
Phenol	0.33	100	500	mg/kg	<0.35	<0.35	<3.6	<0.41	<3.4 [<3.5]	<0.33
Pyrene	1,000	100	500	mg/kg	2.7	0.25 J	120 D	5.9	74 [72]	17 D
Total PAHs				mg/kg	63 J	1.4 J	2,500	67	1,600 J [1,600]	170

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-120 22 - 23 10/24/23 SB-120(22.0-23.0) 460-291147-11	SB-121 15.5 - 16.5 10/25/23 SB-121(15.5-16.5) 460-291147-5	SB-121 26 - 27 10/25/23 SB-121(26.0-27.0) 460-291147-1
Semivolatile Organics							
1,1'-Biphenyl	--	--	--	mg/kg	0.040 J	16 D	<0.33
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.33	<0.35	<0.33
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.33	<0.35	<0.33
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.13	<0.14	<0.13
2,4-Dichlorophenol	--	--	--	mg/kg	<0.13	<0.14	<0.13
2,4-Dimethylphenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
2,4-Dinitrophenol	--	--	--	mg/kg	<0.27	<0.28	<0.27
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.067	<0.072	<0.067
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.067	<0.072	<0.067
2-Chloronaphthalene	--	--	--	mg/kg	<0.33	<0.35	<0.33
2-Chlorophenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
2-Methylnaphthalene	--	--	--	mg/kg	0.032 J	180 D	<0.33
2-Nitroaniline	--	--	--	mg/kg	<0.33	<0.35	<0.33
2-Nitrophenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.13	<0.14	<0.13
3-Nitroaniline	--	--	--	mg/kg	<0.33	<0.35	<0.33
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.27	<0.28	<0.27
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.35	<0.33
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.33	<0.35	<0.33
4-Chloroaniline	--	--	--	mg/kg	<0.33	<0.35	<0.33
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.35	<0.33
4-Methylphenol	0.33	100	500	mg/kg	<0.33	<0.35	<0.33
4-Nitroaniline	--	--	--	mg/kg	<0.33	<0.35	<0.33
4-Nitrophenol	--	--	--	mg/kg	<0.67	<0.72	<0.67
Acenaphthene	98	100	500	mg/kg	0.37	84 D	0.026 J
Acenaphthylene	107	100	500	mg/kg	0.018 J	6.7	<0.33
Acetophenone	--	--	--	mg/kg	<0.33	<0.35	<0.33
Anthracene	1,000	100	500	mg/kg	0.14 J	39 D	<0.33
Atrazine	--	--	--	mg/kg	<0.13	<0.14	<0.13
Benzaldehyde	--	--	--	mg/kg	<0.33 J	<0.35 J	<0.33 J
Benzo(a)anthracene	1	1	5.6	mg/kg	0.047	23 D	<0.033
Benzo(a)pyrene	22	1	1	mg/kg	0.033	19 D	<0.033
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.023 J	15 D	<0.033

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(ft): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SB-120 22 - 23 10/24/23 SB-120(22.0-23.0) 460-291147-11	SB-121 15.5 - 16.5 10/25/23 SB-121(15.5-16.5) 460-291147-5	SB-121 26 - 27 10/25/23 SB-121(26.0-27.0) 460-291147-1
Semivolatile Organics (continued)							
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	<0.33	5.3	<0.33
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.011 J	4.9	<0.033
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.33	<0.35	<0.33
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.033	<0.035	<0.033
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.33	<0.35	<0.33
Butylbenzylphthalate	--	--	--	mg/kg	<0.33	<0.35	<0.33
Caprolactam	--	--	--	mg/kg	<0.33	<0.35	<0.33
Carbazole	--	--	--	mg/kg	0.053 J	1.2	<0.33
Chrysene	1	3.9	56	mg/kg	0.043 J	20 D	<0.33
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	<0.033	1.7	<0.033
Dibenzofuran	210	59	350	mg/kg	0.036 J	3.7	<0.33
Diethylphthalate	--	--	--	mg/kg	<0.33	<0.35	<0.33
Dimethylphthalate	--	--	--	mg/kg	<0.33	<0.35	<0.33
Di-n-Butylphthalate	--	--	--	mg/kg	0.12 J	<0.35	<0.33
Di-n-Octylphthalate	--	--	--	mg/kg	<0.33	<0.35	<0.33
Fluoranthene	1,000	100	500	mg/kg	0.11 J	41 D	<0.33
Fluorene	386	100	500	mg/kg	0.11 J	46 D	0.013 J
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.033	<0.035	<0.033
Hexachlorobutadiene	--	--	--	mg/kg	<0.067	<0.072	<0.067
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.033	<0.035	<0.033
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	<0.033	5.9	<0.033
Isophorone	--	--	--	mg/kg	<0.13	<0.14	<0.13
Naphthalene	12	100	500	mg/kg	0.36	460 D	0.024 J
Nitrobenzene	--	--	--	mg/kg	<0.033	<0.035	<0.033
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.033	<0.035	<0.033
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.33	<0.35	<0.33
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.33	<0.35	<0.33
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.27	<0.28	<0.27
Phenanthrene	1,000	100	500	mg/kg	0.58	200 D	<0.33
Phenol	0.33	100	500	mg/kg	<0.33	<0.35	<0.33
Pyrene	1,000	100	500	mg/kg	0.18 J	62 D	0.017 J
Total PAHs				mg/kg	2.1 J	1,200	0.08 J

See Notes on Page 17.

Table 2
Subsurface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Notes:
< = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
B = Analyte was also detected in the associated method blank.
D = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.
T = value reported is less than laboratory detection limit.
Results that exceed NYSDEC Part 375 groundwater protection criteria are presented in bold font.
Results that exceed NYSDEC Part 375 restricted residential soil criteria are shaded.
Results that exceed NYSDEC Part 375 commercial soil criteria are presented in italic font.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-1 0 - 2 10/27/23 SS-1 (0.0-2.0) 460-291365-5	SS-1 2 - 12 10/27/23 SS-1 (2.0-12.0) 460-291365-11	SS-2 0 - 2 10/27/23 SS-2 (0.0-2.0) 460-291365-21	SS-2 2 - 12 10/27/23 SS-2 (2.0-12.0) 460-291365-9	SS-3 0 - 2 10/27/23 SS-3 (0.0-2.0) 460-291365-13	SS-3 2 - 12 10/27/23 SS-3 (2.0-12.0) 460-291365-14	SS-3 12 - 24 10/27/23 SS-3 (12.0-24.0) 460-291365-16
Volatile Organics											
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.0017 J	<0.0011 J	<0.0011	<0.00092 J	<0.0010 J	<0.0011	<0.0012
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2-Dibromoethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,2-Dichloropropane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
1,4-Dioxane	0.1	13	130	mg/kg	<0.17	<0.11	<0.11 J	<0.092	<0.10	<0.11 J	<0.12 J
2-Hexanone	--	--	--	mg/kg	<0.0084	<0.0056	<0.0057	<0.0046	<0.0052	<0.0057	<0.0058
Acetone	0.05	100	500	mg/kg	0.029 J	<0.0067 J	0.020 J	<0.0055 J	<0.0062 J	<0.0069 J	0.023 J
Benzene	0.06	4.8	44	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Bromochloromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Bromodichloromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Bromoform	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Bromomethane	--	--	--	mg/kg	<0.0034	<0.0022	<0.0023	<0.0018	<0.0021	<0.0023	<0.0023
Carbon Disulfide	--	--	--	mg/kg	<0.0017 J	<0.0011 J	<0.0011 J	<0.00092 J	<0.0010 J	<0.0011 J	<0.0012 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Chlorobenzene	1.1	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Chloroethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Chloroform	0.37	49	350	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Chloromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Cyclohexane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Dibromochloromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Dichlorodifluoromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Ethylbenzene	1	41	390	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Isopropylbenzene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
m,p-Xylene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Methyl acetate	--	--	--	mg/kg	<0.0084	<0.0056	<0.0057 J	<0.0046	<0.0052	<0.0057 J	<0.0058 J
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	<0.0084	<0.0056	0.0035 J	<0.0046	<0.0052	<0.0057	0.0049 J

See Notes on Page 7.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:					SS-1 0 - 2 10/27/23 SS-1 (0.0-2.0) 460-291365-5	SS-1 2 - 12 10/27/23 SS-1 (2.0-12.0) 460-291365-11	SS-2 0 - 2 10/27/23 SS-2 (0.0-2.0) 460-291365-21	SS-2 2 - 12 10/27/23 SS-2 (2.0-12.0) 460-291365-9	SS-3 0 - 2 10/27/23 SS-3 (0.0-2.0) 460-291365-13	SS-3 2 - 12 10/27/23 SS-3 (2.0-12.0) 460-291365-14	SS-3 12 - 24 10/27/23 SS-3 (12.0-24.0) 460-291365-16
Volatile Organics (continued)											
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0084	<0.0056	<0.0057	<0.0046	<0.0052	<0.0057	<0.0058
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Methylcyclohexane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Methylene Chloride	0.05	100	500	mg/kg	<0.0034	<0.0022	<0.0023	<0.0018	<0.0021	<0.0023	<0.0023
o-Xylene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Styrene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Tetrachloroethene	1.3	19	150	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Toluene	0.7	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	0.00059 J
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Trichloroethene	0.47	21	200	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Trichlorofluoromethane	--	--	--	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.0017	<0.0011	<0.0011	<0.00092	<0.0010	<0.0011	<0.0012
Total BTEX	--	--	--	mg/kg	ND	ND	ND	ND	ND	ND	0.00059 J

See Notes on Page 7.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:					SS-4 0 - 2 10/27/23 SS-4 (0.0-2.0) 460-291365-15	SS-4 2 - 12 10/27/23 SS-4 (2.0-12.0) 460-291365-17	SS-5 0 -12 10/27/23 SS-5 (0.0-2.0) 460-291365-20	SS-5 2 - 12 10/27/23 SS-5 (2.0-12.0) 460-291365-3	SS-5 12 -18 10/27/23 SS-5 (12.0-18.0) 460-291365-1	SS-6 0 - 2 10/27/23 SS-6 (0.0-2.0) 460-291365-2	SS-6 2 - 12 10/27/23 SS-6 (2.0-12.0) 460-291365-4
	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units							
Volatile Organics											
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091 J	<0.0010 J	<0.00087 J	<0.0010 J
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2-Dibromoethane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,2-Dichloropropane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
1,4-Dioxane	0.1	13	130	mg/kg	<0.097 J	<0.087	<0.087 J	<0.091	<0.10	<0.087	<0.10
2-Hexanone	--	--	--	mg/kg	<0.0048	<0.0044	<0.0044	<0.0045	<0.0052	<0.0044	<0.0050
Acetone	0.05	100	500	mg/kg	0.026 J	<0.0052 J	0.017 J	<0.0054	0.016	<0.0052	<0.0060
Benzene	0.06	4.8	44	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Bromochloromethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Bromodichloromethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Bromoform	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Bromomethane	--	--	--	mg/kg	<0.0019	<0.0017	<0.0017	<0.0018	<0.0021	<0.0017	<0.0020
Carbon Disulfide	--	--	--	mg/kg	<0.00097 J	<0.00087 J	<0.00087 J	<0.00091 J	<0.0010 J	<0.00087 J	<0.0010 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Chlorobenzene	1.1	100	500	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Chloroethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Chloroform	0.37	49	350	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Chloromethane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Cyclohexane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091 J	<0.0010 J	<0.00087 J	<0.0010 J
Dibromochloromethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Dichlorodifluoromethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Ethylbenzene	1	41	390	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Isopropylbenzene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
m,p-Xylene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Methyl acetate	--	--	--	mg/kg	<0.0048 J	<0.0044	<0.0044 J	<0.0045 J	<0.0052 J	<0.0044 J	<0.0050 J
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0046 J	<0.0044	0.0028 J	<0.0045	<0.0052	<0.0044	<0.0050

See Notes on Page 7.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:					SS-4 0 - 2 10/27/23 SS-4 (0.0-2.0) 460-291365-15	SS-4 2 - 12 10/27/23 SS-4 (2.0-12.0) 460-291365-17	SS-5 0 -12 10/27/23 SS-5 (0.0-2.0) 460-291365-20	SS-5 2 - 12 10/27/23 SS-5 (2.0-12.0) 460-291365-3	SS-5 12 -18 10/27/23 SS-5 (12.0-18.0) 460-291365-1	SS-6 0 - 2 10/27/23 SS-6 (0.0-2.0) 460-291365-2	SS-6 2 - 12 10/27/23 SS-6 (2.0-12.0) 460-291365-4
	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units							
Volatile Organics (continued)											
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0048	<0.0044	<0.0044	<0.0045	<0.0052	<0.0044	<0.0050
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Methylcyclohexane	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091 J	<0.0010 J	<0.00087 J	<0.0010 J
Methylene Chloride	0.05	100	500	mg/kg	<0.0019	<0.0017	<0.0017	<0.0018	<0.0021	<0.0017	<0.0020
o-Xylene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Styrene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Tetrachloroethene	1.3	19	150	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Toluene	0.7	100	500	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Trichloroethene	0.47	21	200	mg/kg	<0.00097	<0.00087 J	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Trichlorofluoromethane	--	--	--	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.00097	<0.00087	<0.00087	<0.00091	<0.0010	<0.00087	<0.0010
Total BTEX	--	--	--	mg/kg	ND	ND	ND	ND	ND	ND	ND

See Notes on Page 7.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:					SS-7 0 - 2 10/27/23 SS-7 (0.0-2.0) 460-291365-8	SS-7 2 - 12 10/27/23 SS-7 (2.0-12.0) 460-291365-12	SS-8 0 - 2 10/27/23 SS-8 (0.0-2.0) 460-291365-6	SS-8 2 - 12 10/27/23 SS-8 (2.0-12.0) 460-291365-10	SS-8 12 - 18 10/27/23 SS-8 (12.0-18.0) 460-291365-7
	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units					
Volatile Organics									
1,1,1-Trichloroethane	0.68	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,1,2,2-Tetrachloroethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,1,2-trichloro-1,2,2-trifluoroethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,1,2-Trichloroethane	--	--	--	mg/kg	<0.0010 J	<0.00087 J	<0.0016 J	<0.0011 J	<0.0010 J
1,1-Dichloroethane	0.27	26	240	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,1-Dichloroethene	0.33	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2,3-Trichlorobenzene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2,4-Trichlorobenzene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2-Dibromo-3-chloropropane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2-Dibromoethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2-Dichlorobenzene	1.1	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2-Dichloroethane	0.02	3.1	30	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,2-Dichloropropane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,3-Dichlorobenzene	2.4	49	280	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,4-Dichlorobenzene	1.8	13	130	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
1,4-Dioxane	0.1	13	130	mg/kg	<0.10	<0.087	<0.16	<0.11	<0.10
2-Hexanone	--	--	--	mg/kg	<0.0051	<0.0044	<0.0079	<0.0053	<0.0050
Acetone	0.05	100	500	mg/kg	0.083 J	<0.0052 J	0.12 J	0.037 J	0.0065 J
Benzene	0.06	4.8	44	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Bromochloromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Bromodichloromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Bromoform	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Bromomethane	--	--	--	mg/kg	<0.0020	<0.0017	<0.0031	<0.0021	<0.0020
Carbon Disulfide	--	--	--	mg/kg	<0.0010 J	<0.00087 J	<0.0016 J	<0.0011 J	<0.0010 J
Carbon Tetrachloride	0.76	2.4	22	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Chlorobenzene	1.1	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Chloroethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Chloroform	0.37	49	350	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Chloromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
cis-1,2-Dichloroethene	0.25	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
cis-1,3-Dichloropropene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Cyclohexane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Dibromochloromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Dichlorodifluoromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Ethylbenzene	1	41	390	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Isopropylbenzene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
m,p-Xylene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Methyl acetate	--	--	--	mg/kg	<0.0051	<0.0044	<0.0079	<0.0053	<0.0050
Methyl ethyl ketone (MEK, 2-butanone)	0.12	100	500	mg/kg	0.0064	<0.0044	0.011	0.0062	<0.0050

See Notes on Page 7.

Table 3
Surface Soil Sample Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site



Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:					SS-7 0 - 2 10/27/23 SS-7 (0.0-2.0) 460-291365-8	SS-7 2 - 12 10/27/23 SS-7 (2.0-12.0) 460-291365-12	SS-8 0 - 2 10/27/23 SS-8 (0.0-2.0) 460-291365-6	SS-8 2 - 12 10/27/23 SS-8 (2.0-12.0) 460-291365-10	SS-8 12 - 18 10/27/23 SS-8 (12.0-18.0) 460-291365-7
	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units					
Volatile Organics (continued)									
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone)	--	--	--	mg/kg	<0.0051	<0.0044	<0.0079	<0.0053	<0.0050
Methyl tert-butyl ether	0.93	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Methylcyclohexane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Methylene Chloride	0.05	100	500	mg/kg	<0.0020	<0.0017	<0.0031	<0.0021	<0.0020
o-Xylene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Styrene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Tetrachloroethene	1.3	19	150	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Toluene	0.7	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
trans-1,2-Dichloroethene	0.19	100	500	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
trans-1,3-Dichloropropene	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Trichloroethene	0.47	21	200	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Trichlorofluoromethane	--	--	--	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Vinyl Chloride	0.02	0.9	13	mg/kg	<0.0010	<0.00087	<0.0016	<0.0011	<0.0010
Total BTEX	--	--	--	mg/kg	ND	ND	ND	ND	ND

See Notes on Page 7.

Notes:
< = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
B = Analyte was also detected in the associated method blank.
D = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.
Results that exceed NYSDEC Part 375 groundwater protection criteria are presented in bold font.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-1 0 - 2 10/27/23 SS-1 (0.0-2.0) 460-291365-5	SS-1 2 - 12 10/27/23 SS-1 (2.0-12.0) 460-291365-11	SS-2 0 - 2 10/27/23 SS-2 (0.0-2.0) 460-291365-21	SS-2 2 - 12 10/27/23 SS-2 (2.0-12.0) 460-291365-9	SS-3 0 - 2 10/27/23 SS-3 (0.0-2.0) 460-291365-13	SS-3 2 - 12 10/27/23 SS-3 (2.0-12.0) 460-291365-14	SS-3 12 - 24 10/27/23 SS-3 (12.0-24.0) 460-291365-16
Semivolatile Organics											
1,1'-Biphenyl	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.39 J	<0.33 J	<0.35 J	<0.33 J	<0.34 J	<0.33 J	<0.33 J
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.16	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13
2,4-Dichlorophenol	--	--	--	mg/kg	<0.16	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13
2,4-Dimethylphenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2,4-Dinitrophenol	--	--	--	mg/kg	<0.31	<0.27	<0.28	<0.27	<0.27	<0.27	<0.27
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.078	<0.068	<0.070	<0.068	<0.068	<0.068	<0.067
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.078	<0.068	<0.070	<0.068	<0.068	<0.068	<0.067
2-Chloronaphthalene	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2-Chlorophenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2-Methylnaphthalene	--	--	--	mg/kg	<0.39	<0.33	0.015 J	0.019 J	<0.34	0.011 J	0.011 J
2-Nitroaniline	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
2-Nitrophenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.16	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13
3-Nitroaniline	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.31	<0.27	<0.28	<0.27	<0.27	<0.27	<0.27
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Chloroaniline	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Methylphenol	0.33	100	500	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Nitroaniline	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
4-Nitrophenol	--	--	--	mg/kg	<0.78	<0.68	<0.70	<0.68	<0.68	<0.68	<0.67
Acenaphthene	98	100	500	mg/kg	<0.39	<0.33	<0.35	0.012 J	<0.34	<0.33	<0.33
Acenaphthylene	107	100	500	mg/kg	<0.39	<0.33	0.18 J	0.18 J	0.044 J	0.072 J	0.092 J
Acetophenone	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Anthracene	1,000	100	500	mg/kg	<0.39	<0.33	0.11 J	0.16 J	0.049 J	0.061 J	0.033 J
Atrazine	--	--	--	mg/kg	<0.16	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13
Benzaldehyde	--	--	--	mg/kg	<0.39 J	<0.33 J	<0.35 J	<0.33 J	<0.34 J	<0.33 J	<0.33 J
Benzo(a)anthracene	1	1	5.6	mg/kg	0.049	<0.033	0.55	0.74	0.22	0.22	0.10
Benzo(a)pyrene	22	1	1	mg/kg	0.057	0.027 J	0.66	0.83	0.25	0.29	0.16
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.086	0.031 J	0.88	1.0	0.33	0.41	0.24
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.043 J	0.017 J	0.27 J	0.41	0.13 J	0.15 J	0.11 J
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.030 J	0.012 J	0.36	0.42	0.12	0.13	0.10
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.039	<0.033	<0.035	<0.033	<0.034	<0.033	<0.033

See Notes on Page 7.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-1 0 - 2 10/27/23 SS-1 (0.0-2.0) 460-291365-5	SS-1 2 - 12 10/27/23 SS-1 (2.0-12.0) 460-291365-11	SS-2 0 - 2 10/27/23 SS-2 (0.0-2.0) 460-291365-21	SS-2 2 - 12 10/27/23 SS-2 (2.0-12.0) 460-291365-9	SS-3 0 - 2 10/27/23 SS-3 (0.0-2.0) 460-291365-13	SS-3 2 - 12 10/27/23 SS-3 (2.0-12.0) 460-291365-14	SS-3 12 - 24 10/27/23 SS-3 (12.0-24.0) 460-291365-16
Semivolatile Organics (continued)											
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.39	<0.33	0.040 J	0.019 J	<0.34	0.077 J	<0.33
Butylbenzylphthalate	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Caprolactam	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Carbazole	--	--	--	mg/kg	<0.39	<0.33	0.028 J	0.043 J	0.025 J	0.016 J	<0.33
Chrysene	1	3.9	56	mg/kg	0.066 J	0.023 J	0.53	0.69	0.24 J	0.27 J	0.13 J
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	<0.039	<0.033	0.076	0.12	0.039	0.047	0.034
Dibenzofuran	210	59	350	mg/kg	<0.39	<0.33	0.017 J	0.024 J	<0.34	<0.33	<0.33
Diethylphthalate	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Dimethylphthalate	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Di-n-Butylphthalate	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Di-n-Octylphthalate	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Fluoranthene	1,000	100	500	mg/kg	0.078 J	0.026 J	0.88	1.3	0.41	0.36	0.13 J
Fluorene	386	100	500	mg/kg	<0.39	<0.33	0.024 J	0.033 J	0.013 J	0.018 J	0.012 J
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.039	<0.033	<0.035	<0.033	<0.034	<0.033	<0.033
Hexachlorobutadiene	--	--	--	mg/kg	<0.078	<0.068	<0.070	<0.068	<0.068	<0.068	<0.067
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.039	<0.033	<0.035	<0.033	<0.034	<0.033	<0.033
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.047	0.018 J	0.35	0.48	0.14	0.17	0.11
Isophorone	--	--	--	mg/kg	<0.16	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13
Naphthalene	12	100	500	mg/kg	<0.39	<0.33	0.054 J	0.081 J	0.013 J	0.013 J	0.017 J
Nitrobenzene	--	--	--	mg/kg	<0.039	<0.033	<0.035	<0.033	<0.034	<0.033	<0.033
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.039	<0.033	<0.035	<0.033	<0.034	<0.033	<0.033
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.31 J	<0.27 J	<0.28 J	<0.27 J	<0.27 J	<0.27 J	<0.27 J
Phenanthrene	1,000	100	500	mg/kg	0.034 J	<0.33	0.32 J	0.61	0.16 J	0.16 J	0.050 J
Phenol	0.33	100	500	mg/kg	<0.39	<0.33	<0.35	<0.33	<0.34	<0.33	<0.33
Pyrene	1,000	100	500	mg/kg	0.077 J	0.029 J	1.0	1.3	0.44	0.48	0.19 J
Total PAHs	--	--	--	mg/kg	0.57 J	0.18 J	6.3 J	8.4 J	2.6 J	2.9 J	1.5 J

See Notes on Page 17.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-4 0 - 2 10/27/23 SS-4 (0.0-2.0) 460-291365-15	SS-4 2- 12 10/27/23 SS-4 (2.0-12.0) 460-291365-17	SS-5 0 - 2 10/27/23 SS-5 (0.0-2.0) 460-291365-20	SS-5 2 - 12 10/27/23 SS-5 (2.0-12.0) 460-291365-3	SS-5 12 - 18 10/27/23 SS-5 (12.0-18.0) 460-291365-1	SS-6 0 - 2 10/27/23 SS-6 (0.0-2.0) 460-291365-2	SS-6 2 - 12 10/27/23 SS-6 (2.0-12.0) 460-291365-4
Semivolatile Organics											
1,1'-Biphenyl	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.33 J	<0.33 J	<0.34 J	<0.34 J	<0.34 J	<0.33 J	<0.35 J
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14
2,4-Dichlorophenol	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14
2,4-Dimethylphenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2,4-Dinitrophenol	--	--	--	mg/kg	<0.27	<0.27	<0.27	<0.27	<0.28	<0.27	<0.28
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.068	<0.067	<0.068	<0.068	<0.069	<0.068	<0.070
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.068	<0.067	<0.068	<0.068	<0.069	<0.068	<0.070
2-Chloronaphthalene	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2-Chlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2-Methylnaphthalene	--	--	--	mg/kg	<0.33	<0.33	<0.34	0.011 J	<0.34	<0.33	<0.35
2-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
2-Nitrophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14
3-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.27	<0.27	<0.27	<0.27	<0.28 J	<0.27	<0.28
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Chloroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Methylphenol	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
4-Nitrophenol	--	--	--	mg/kg	<0.68	<0.67	<0.68	<0.68	<0.69	<0.68	<0.70
Acenaphthene	98	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Acenaphthylene	107	100	500	mg/kg	0.011 J	0.037 J	0.053 J	0.088 J	0.020 J	0.011 J	0.016 J
Acetophenone	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	0.050 J	<0.33	<0.35
Anthracene	1,000	100	500	mg/kg	0.045 J	0.030 J	0.071 J	0.033 J	0.014 J	0.012 J	0.019 J
Atrazine	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14
Benzaldehyde	--	--	--	mg/kg	<0.33 J	<0.33 J	<0.34 J	<0.34 J	<0.34 J	<0.33 J	<0.35 J
Benzo(a)anthracene	1	1	5.6	mg/kg	0.15	0.11	0.22	0.28	0.059	0.063	0.11
Benzo(a)pyrene	22	1	1	mg/kg	0.14	0.14	0.26	0.43	0.078	0.086	0.14
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.21	0.19	0.34	0.43	0.093	0.13	0.20
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.073 J	0.067 J	0.13 J	0.22 J	0.051 J	0.067 J	0.10 J
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.077	0.064	0.13	0.16	0.037	0.045	0.074
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.034	<0.033	<0.035

See Notes on Page 7.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-4 0 - 2 10/27/23 SS-4 (0.0-2.0) 460-291365-15	SS-4 2 - 12 10/27/23 SS-4 (2.0-12.0) 460-291365-17	SS-5 0 - 2 10/27/23 SS-5 (0.0-2.0) 460-291365-20	SS-5 2 - 12 10/27/23 SS-5 (2.0-12.0) 460-291365-3	SS-5 12 - 18 10/27/23 SS-5 (12.0-18.0) 460-291365-1	SS-6 0 - 2 10/27/23 SS-6 (0.0-2.0) 460-291365-2	SS-6 2 - 12 10/27/23 SS-6 (2.0-12.0) 460-291365-4
Semivolatile Organics (continued)											
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.33	0.026 J	<0.34	0.020 J	0.018 J	0.17 J	0.056 J
Butylbenzylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Caprolactam	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Carbazole	--	--	--	mg/kg	0.035 J	<0.33	0.017 J	<0.34	<0.34	<0.33	<0.35
Chrysene	1	3.9	56	mg/kg	0.17 J	0.12 J	0.23 J	0.29 J	0.065 J	0.088 J	0.13 J
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	0.028 J	0.023 J	0.042	0.060	0.015 J	0.016 J	0.027 J
Dibenzofuran	210	59	350	mg/kg	<0.33	<0.33	0.012 J	<0.34	<0.34	<0.33	<0.35
Diethylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Dimethylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Di-n-Butylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	0.013 J	<0.35
Di-n-Octylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Fluoranthene	1,000	100	500	mg/kg	0.31 J	0.16 J	0.40	0.16 J	0.083 J	0.12 J	0.20 J
Fluorene	386	100	500	mg/kg	0.012 J	<0.33	0.023 J	0.011 J	<0.34	<0.33	<0.35
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.034	<0.033	<0.035
Hexachlorobutadiene	--	--	--	mg/kg	<0.068	<0.067	<0.068	<0.068	<0.069	<0.068	<0.070
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.034	<0.033	<0.035
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.078	0.073	0.14	0.23	0.047	0.060	0.10
Isophorone	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14
Naphthalene	12	100	500	mg/kg	<0.33	0.0079 J	0.012 J	0.023 J	0.0075 J	0.0063 J	0.0081 J
Nitrobenzene	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.034	<0.033	<0.035
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.034	<0.033	<0.035
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.27 J	<0.27 J	<0.27 J	<0.27 J	<0.28 J	<0.27 J	<0.28 J
Phenanthrene	1,000	100	500	mg/kg	0.20 J	0.066 J	0.27 J	0.052 J	0.036 J	0.052 J	0.075 J
Phenol	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.34	<0.33	<0.35
Pyrene	1,000	100	500	mg/kg	0.31 J	0.21 J	0.44	0.28 J	0.089 J	0.13 J	0.21 J
Total PAHs	--	--	--	mg/kg	1.8 J	1.3 J	2.8 J	2.8 J	0.69 J	0.89 J	1.4 J

See Notes on Page 17.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-7 0 - 2 10/27/23 SS-7 (0.0-2.0) 460-291365-8	SS-7 2 - 12 10/27/23 SS-7 (2.0-12.0) 460-291365-12	SS-8 0 - 2 10/27/23 SS-8 (0.0-2.0) 460-291365-6	SS-8 2 - 12 10/27/23 SS-8 (2.0-12.0) 460-291365-10	SS-8 12 - 18 10/27/23 SS-8 (12.0-18.0) 460-291365-7
Semivolatile Organics									
1,1'-Biphenyl	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
1,2,4,5-Tetrachlorobenzene	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2,2-Oxybis(1-Chloropropane)	--	--	--	mg/kg	<0.33 J	<0.33 J	<0.34 J	<0.34 J	<0.33 J
2,3,4,6-Tetrachlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2,4,5-Trichlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2,4,6-Trichlorophenol	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.13
2,4-Dichlorophenol	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.13
2,4-Dimethylphenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2,4-Dinitrophenol	--	--	--	mg/kg	<0.27	<0.27	<0.28	<0.27	<0.27
2,4-Dinitrotoluene	--	--	--	mg/kg	<0.068	<0.067	<0.069	<0.068	<0.067
2,6-Dinitrotoluene	--	--	--	mg/kg	<0.068	<0.067	<0.069	<0.068	<0.067
2-Chloronaphthalene	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2-Chlorophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2-Methylnaphthalene	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
2-Nitrophenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
3,3'-Dichlorobenzidine	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.13
3-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4,6-Dinitro-2-methylphenol	--	--	--	mg/kg	<0.27	<0.27	<0.28	<0.27	<0.27
4-Bromophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Chloro-3-Methylphenol	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Chloroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Chlorophenyl-phenylether	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Methylphenol	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Nitroaniline	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
4-Nitrophenol	--	--	--	mg/kg	<0.68	<0.67	<0.69	<0.68	<0.67
Acenaphthene	98	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Acenaphthylene	107	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Acetophenone	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Anthracene	1,000	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Atrazine	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.13
Benzaldehyde	--	--	--	mg/kg	<0.33 J	<0.33 J	<0.34 J	<0.34 J	<0.33 J
Benzo(a)anthracene	1	1	5.6	mg/kg	<0.033	0.053	0.047	<0.034	0.034
Benzo(a)pyrene	22	1	1	mg/kg	0.027 J	0.064	0.050	0.024 J	0.038
Benzo(b)fluoranthene	1.7	1	5.6	mg/kg	0.034	0.086	0.082	0.027 J	0.048
Benzo(g,h,i)perylene	1,000	100	500	mg/kg	0.019 J	0.043 J	0.037 J	0.017 J	0.025 J
Benzo(k)fluoranthene	1.7	3.9	56	mg/kg	0.015 J	0.036	0.028 J	0.012 J	0.018 J
bis(2-Chloroethoxy)methane	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
bis(2-Chloroethyl)ether	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.033

See Notes on Page 7.

Table 4
Surface Soil Sample Semi-Volatile Organic Compound Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-7 0 - 2 10/27/23 SS-7 (0.0-2.0) 460-291365-8	SS-7 2 - 12 10/27/23 SS-7 (2.0-12.0) 460-291365-12	SS-8 0 - 2 10/27/23 SS-8 (0.0-2.0) 460-291365-6	SS-8 2 - 12 10/27/23 SS-8 (2.0-12.0) 460-291365-10	SS-8 12 - 18 10/27/23 SS-8 (12.0-18.0) 460-291365-7
Semivolatile Organics (continued)									
bis(2-Ethylhexyl)phthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Butylbenzylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Caprolactam	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Carbazole	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Chrysene	1	3.9	56	mg/kg	0.027 J	0.059 J	0.061 J	0.020 J	0.033 J
Dibenzo(a,h)anthracene	1,000	0.33	0.56	mg/kg	<0.033	<0.033	0.015 J	<0.034	<0.033
Dibenzofuran	210	59	350	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Diethylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Dimethylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Di-n-Butylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Di-n-Octylphthalate	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Fluoranthene	1,000	100	500	mg/kg	0.031 J	0.083 J	0.074 J	0.023 J	0.032 J
Fluorene	386	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Hexachlorobenzene	3.2	1.2	6	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.033
Hexachlorobutadiene	--	--	--	mg/kg	<0.068	<0.067	<0.069	<0.068	<0.067
Hexachlorocyclopentadiene	--	--	--	mg/kg	R	R	R	R	R
Hexachloroethane	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.033
Indeno(1,2,3-cd)pyrene	8.2	0.5	5.6	mg/kg	0.021 J	0.047	0.044	0.017 J	0.027 J
Isophorone	--	--	--	mg/kg	<0.13	<0.13	<0.14	<0.14	<0.13
Naphthalene	12	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Nitrobenzene	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.033
N-Nitroso-di-n-propylamine	--	--	--	mg/kg	<0.033	<0.033	<0.034	<0.034	<0.033
N-Nitrosodiphenylamine	--	--	--	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
o-Cresol (2-Methylphenol)	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Pentachlorophenol	0.8	6.7	6.7	mg/kg	<0.27 J	<0.27 J	<0.28 J	<0.27 J	<0.27 J
Phenanthrene	1,000	100	500	mg/kg	<0.33	0.022 J	0.037 J	0.015 J	<0.33
Phenol	0.33	100	500	mg/kg	<0.33	<0.33	<0.34	<0.34	<0.33
Pyrene	1,000	100	500	mg/kg	0.032 J	0.077 J	0.072 J	0.027 J	0.041 J
Total PAHs	--	--	--	mg/kg	0.21 J	0.57 J	0.55 J	0.18 J	0.3 J

See Notes on Page 17.

Notes:
< = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
B = Analyte was also detected in the associated method blank.
D = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.

Table 5
Surface Soil Sample Inorganic Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-1 0 -2 10/27/23 SS-1 (0.0-2.0) 460-291365-5	SS-1 2 - 12 10/27/23 SS-1 (2.0-12.0) 460-291365-11	SS-2 0 -2 10/27/23 SS-2 (0.0-2.0) 460-291365-21	SS-2 2 - 12 10/27/23 SS-2 (2.0-12.0) 460-291365-9	SS-3 0 - 2 10/27/23 SS-3 (0.0-2.0) 460-291365-13	SS-3 2 - 12 10/27/23 SS-3 (2.0-12.0) 460-291365-14	SS-3 12 - 24 10/27/23 SS-3 (12.0-24.0) 460-291365-16
Inorganics											
Aluminum	--	--	--	mg/kg	5,900	10,200	7,650	8,490	7,500	5,230	3,630
Antimony	--	--	--	mg/kg	3.00 J	0.430 J	0.680 J	0.760 J	0.360 J	0.410 J	0.730 J
Arsenic	16	16	16	mg/kg	1.40	1.40	2.80	4.20	2.50	2.20	2.70
Barium	820	400	400	mg/kg	89.1	98.5	75.9	76.6	105	66.4	44.5
Beryllium	47	72	590	mg/kg	0.220 J	0.380	0.300 J	0.330 J	0.280 J	0.210 J	0.170 J
Cadmium	7.5	4.3	9.3	mg/kg	0.420 J	0.280 J	0.530 J	1.10	0.300 J	0.270 J	0.350 J
Calcium	--	--	--	mg/kg	8,740 J	15,400 J	9,820 J	13,000 J	13,300 J	22,900 J	25,900 J
Chromium	--	110	--	mg/kg	13.3 J	30.1 J	16.7 J	23.3 J	15.9 J	19.9 J	58.6 J
Cobalt	--	--	--	mg/kg	5.40 J	8.80 J	6.60 J	8.30 J	6.70 J	5.90 J	4.60 J
Copper	1,720	270	270	mg/kg	39.5 J	24.3 J	43.9 J	61.1 J	36.9 J	44.2 J	22.7 J
Cyanide	40	27	27	mg/kg	0.390	0.120 J	0.800	0.740	0.300	0.180 J	1.20
Iron	--	--	--	mg/kg	12,300	20,800	26,200	58,400	15,200	12,600	10,900
Lead	450	400	1,000	mg/kg	135 J	196 J	75.5 J	81.4 J	166 J	202 J	307 J
Magnesium	--	--	--	mg/kg	4,030 J	13,800 J	7,570 J	10,500 J	8,410 J	12,500 J	14,800 J
Manganese	2,000	2,000	10,000	mg/kg	341	293	310	336	236	185	187
Mercury	0.73	0.81	2.8	mg/kg	0.420 J	0.100 J	0.250 J	0.120 J	0.140 J	0.240 J	0.120 J
Nickel	130	310	310	mg/kg	13.2 J	21.3 J	13.8 J	18.6 J	12.5 J	15.6 J	12.6 J
Potassium	--	--	--	mg/kg	2,560	5,000	2,620	2,990	2,670	1,730	1,060
Selenium	4	180	1,500	mg/kg	0.350 J	0.160 J	0.220 J	0.270 J	0.320 J	0.220 J	0.140 J
Silver	8.3	180	1,500	mg/kg	1.60	0.160 J	0.480	0.350 J	0.240 J	0.180 J	0.170 J
Sodium	--	--	--	mg/kg	73.8 J	148	114	109	118	155	100
Thallium	--	--	--	mg/kg	0.120 J	0.220 J	0.150 J	0.170 J	0.180 J	0.0950 J	0.0750 J
Vanadium	--	--	--	mg/kg	17.6 J	29.4 J	25.0 J	26.4 J	22.5 J	27.0 J	22.1 J
Zinc	2,480	10,000	10,000	mg/kg	124	129	107	102	139	103	90.5

See Notes on Page 4.

Table 5
Surface Soil Sample Inorganic Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-4 0 - 2 10/27/23 SS-4 (0.0-2.0) 460-291365-15	SS-4 2 - 12 10/27/23 SS-4 (2.0-12.0) 460-291365-17	SS-5 0 - 2 10/27/23 SS-5 (0.0-2.0) 460-291365-20	SS-5 2 - 12 10/27/23 SS-5 (2.0-12.0) 460-291365-3	SS-5 12 - 18 10/27/23 SS-5 (12.0-18.0) 460-291365-1	SS-6 0 - 2 10/27/23 SS-6 (0.0-2.0) 460-291365-2	SS-6 2 - 12 10/27/23 SS-6 (2.0-12.0) 460-291365-4
Inorganics											
Aluminum	--	--	--	mg/kg	4,030	7,110	9,020	8,830	8,110	8,790	9,250
Antimony	--	--	--	mg/kg	<0.930 J	<1.00 J	0.140 J	0.350 J	0.260 J	1.00 J	0.430 J
Arsenic	16	16	16	mg/kg	1.30	2.70	1.90	2.90	3.00	2.80	2.00
Barium	820	400	400	mg/kg	29.3	51.3	87.2	74.7	72.8	92.3	93.6
Beryllium	47	72	590	mg/kg	0.240 J	0.420	0.430	0.340 J	0.330 J	0.370	0.420
Cadmium	7.5	4.3	9.3	mg/kg	<0.930	0.130 J	0.270 J	0.580 J	0.230 J	0.240 J	0.220 J
Calcium	--	--	--	mg/kg	22,100 J	19,600 J	13,700 J	13,700 J	21,300 J	19,200 J	12,000 J
Chromium	--	110	--	mg/kg	5.90 J	18.2 J	14.3 J	20.4 J	18.1 J	21.7 J	20.3 J
Cobalt	--	--	--	mg/kg	4.30 J	6.00 J	6.80 J	7.60 J	6.80 J	7.70 J	9.00 J
Copper	1,720	270	270	mg/kg	20.2 J	33.8 J	24.8 J	36.7 J	32.1 J	44.1 J	40.0 J
Cyanide	40	27	27	mg/kg	0.250	<0.230	<0.200	<0.230	0.160 J	0.160 J	<0.230
Iron	--	--	--	mg/kg	11,800	18,300	14,800	17,700	14,800	18,000	19,100
Lead	450	400	1,000	mg/kg	8.10 J	16.6 J	28.6 J	48.6 J	57.0 J	81.0 J	45.9 J
Magnesium	--	--	--	mg/kg	13,100 J	12,700 J	10,700 J	10,100 J	12,000 J	13,200 J	10,300 J
Manganese	2,000	2,000	10,000	mg/kg	161	249	253	307	319	226	234
Mercury	0.73	0.81	2.8	mg/kg	0.0180 J	0.0380 J	0.0450 J	0.110 J	0.160 J	0.0990 J	0.0470 J
Nickel	130	310	310	mg/kg	6.60 J	10.1 J	12.3 J	19.4 J	14.1 J	14.3 J	16.6 J
Potassium	--	--	--	mg/kg	1,100	1,930	2,910	2,170	1,870	3,580	3,180
Selenium	4	180	1,500	mg/kg	0.120 J	0.230 J	0.160 J	0.280 J	0.210 J	0.610 J	0.280 J
Silver	8.3	180	1,500	mg/kg	0.0850 J	<0.400	<0.370	0.170 J	0.390	0.320 J	0.270 J
Sodium	--	--	--	mg/kg	148	158	157	149	133	153	171
Thallium	--	--	--	mg/kg	0.0660 J	0.170 J	0.150 J	0.130 J	0.110 J	0.200 J	0.190 J
Vanadium	--	--	--	mg/kg	28.6 J	35.5 J	29.1 J	28.5 J	35.0 J	32.1 J	38.5 J
Zinc	2,480	10,000	10,000	mg/kg	36.1	54.7	58.5	87.7	89.6	195	132

See Notes on Page 4.

Table 5
Surface Soil Sample Inorganic Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

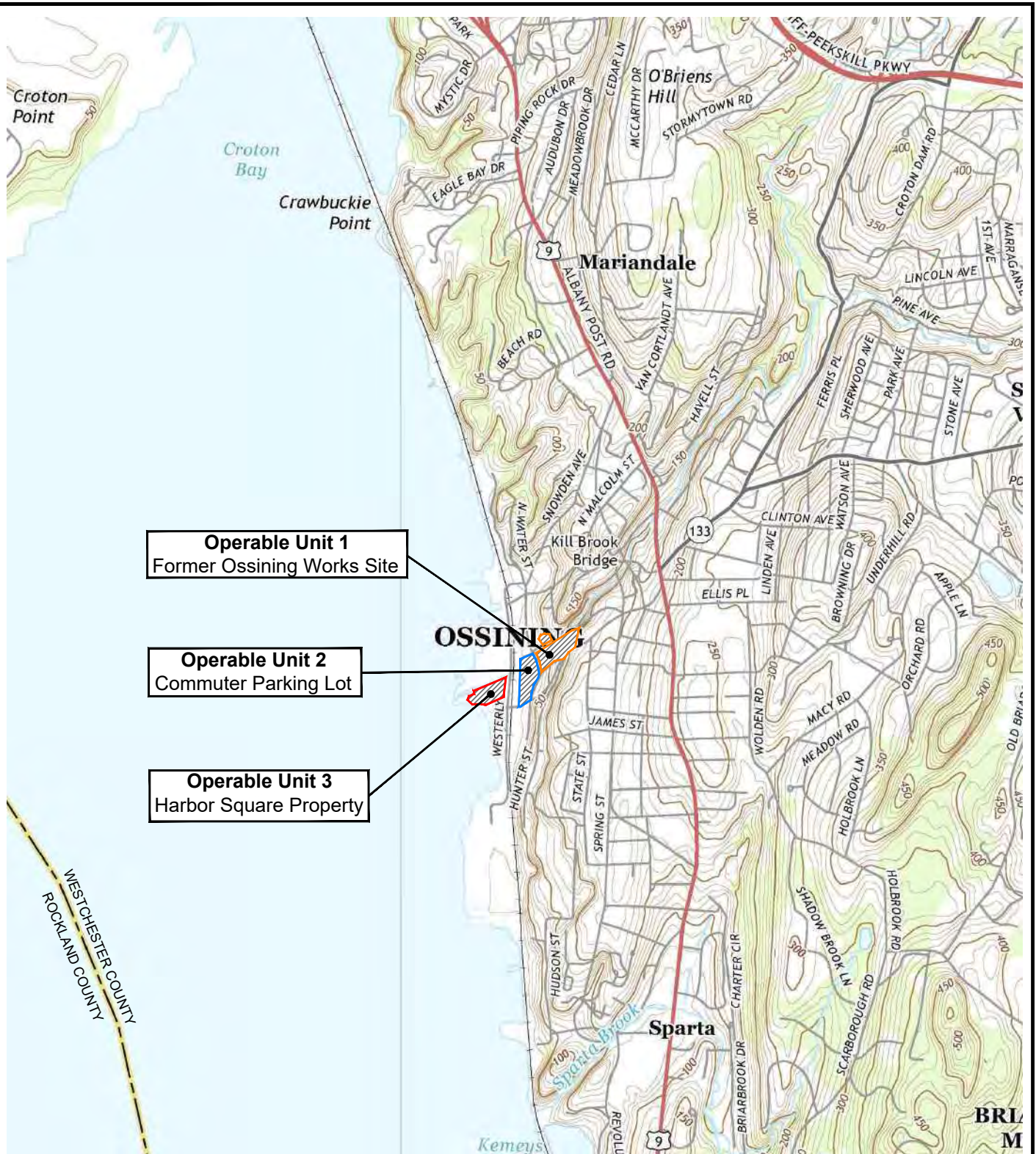
Location ID: Sample Depth(in): Date Collected: Sample Name: Lab Sample ID:	NYSDEC Part 375 Groundwater	NYSDEC Part 375 Restricted- Residential	NYSDEC Part 375 Commercial	Units	SS-7 0 - 2 10/27/23 SS-7 (0.0-2.0) 460-291365-8	SS-7 2 - 12 10/27/23 SS-7 (2.0-12.0) 460-291365-12	SS-8 0 - 2 10/27/23 SS-8 (0.0-2.0) 460-291365-6	SS-8 2 - 12 10/27/23 SS-8 (2.0-12.0) 460-291365-10	SS-8 12 - 18 10/27/23 SS-8 (12.0-18.0) 460-291365-7
Inorganics									
Aluminum	--	--	--	mg/kg	10,900	11,300	5,880	12,300	11,200
Antimony	--	--	--	mg/kg	0.370 J	0.200 J	2.90 J	0.380 J	0.410 J
Arsenic	16	16	16	mg/kg	1.70	1.10	2.60	1.90	1.90
Barium	820	400	400	mg/kg	144	122	103	136	100
Beryllium	47	72	590	mg/kg	0.360 J	0.370 J	0.230 J	0.420	0.430
Cadmium	7.5	4.3	9.3	mg/kg	0.230 J	0.190 J	0.580 J	0.250 J	0.200 J
Calcium	--	--	--	mg/kg	8,040 J	4,880 J	8,560 J	4,730 J	4,740 J
Chromium	--	110	--	mg/kg	22.6 J	23.2 J	13.0 J	38.5 J	22.3 J
Cobalt	--	--	--	mg/kg	8.10 J	8.50 J	5.40 J	9.50 J	7.90 J
Copper	1,720	270	270	mg/kg	36.4 J	46.2 J	37.6 J	27.3 J	27.1 J
Cyanide	40	27	27	mg/kg	0.130 J	<0.230	0.720	<0.190	<0.210
Iron	--	--	--	mg/kg	22,200	22,500	11,900	25,500	25,400
Lead	450	400	1,000	mg/kg	73.0 J	386 J	694 J	94.0 J	73.0 J
Magnesium	--	--	--	mg/kg	9,420 J	8,770 J	4,100 J	8,410 J	7,540 J
Manganese	2,000	2,000	10,000	mg/kg	302	269	605	261	331
Mercury	0.73	0.81	2.8	mg/kg	0.0790 J	0.150 J	0.170 J	0.0630 J	0.0970 J
Nickel	130	310	310	mg/kg	16.5 J	19.0 J	13.6 J	27.8 J	16.6 J
Potassium	--	--	--	mg/kg	5,380	5,490	2,680	6,150	6,090
Selenium	4	180	1,500	mg/kg	0.270 J	0.290 J	0.380 J	0.280 J	0.170 J
Silver	8.3	180	1,500	mg/kg	0.430	<0.380	1.30	0.120 J	0.110 J
Sodium	--	--	--	mg/kg	151	177	89.0 J	156	127
Thallium	--	--	--	mg/kg	0.240 J	0.230 J	0.130 J	0.280 J	0.260 J
Vanadium	--	--	--	mg/kg	32.9 J	31.8 J	18.4 J	34.2 J	26.8 J
Zinc	2,480	10,000	10,000	mg/kg	100	118	136	105	92.0

See Notes on Page 4.

Table 5
Surface Soil Sample Inorganic Analytical Results
Pre-Design Investigation
Consolidated Edison of New York, Inc.
Former Ossining Works Site

Notes:
< = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
B = Analyte was also detected in the associated method blank.
D = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.
Results that exceed NYSDEC Part 375 groundwater protection criteria are presented in bold font.
Results that exceed NYSDEC Part 375 restricted residential soil criteria are shaded.

Figures



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., OSSINING AND HAVERSTRAW, NEW YORK, 2016



CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
 FORMER OSSINING WORKS SITE, OPERABLE UNIT NO. 1
 OSSINING, NEW YORK
PRE-DESIGN INVESTIGATION REPORT

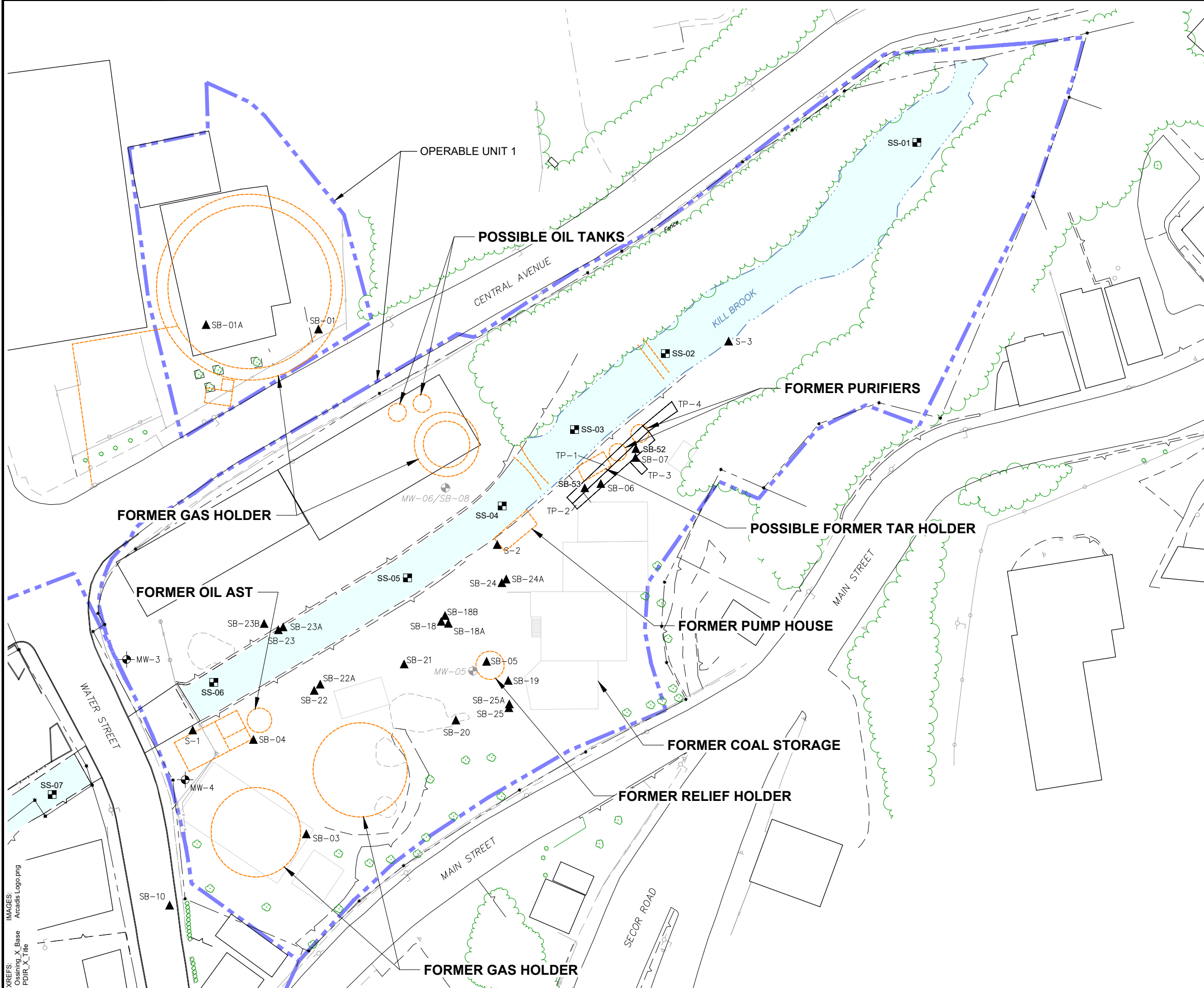
SITE LOCATION MAP



FIGURE

1

C:\Users\declercq\Documents\Arcadis ACC US\AUS-9999999-CON ED FORMER MGP_OSSINING_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\PDIR_Fig 2_Site Map & Sampling Locations.dwg SAVED: 11/17/2024 3:18 PM BY: DECLERCQ, BRIAN



LEGEND:

- OPERABLE UNIT OUTLINE
- EXISTING STRUCTURE
- FORMER STRUCTURE
- WATER
- ~ TREE
- HISTORICAL MGP STRUCTURE
- + RI MONITORING WELL
- ▲ RI SOIL BORING SEDIMENT SAMPLE
- RI SEDIMENT SAMPLE
- TP-2 RI TEST PIT
- ⊕ ABANDONED MONITORING WELL

NOTES:

1. BASE MAP IS A COMPOSITE OF DIGITAL MAPS RECEIVED FROM THE CLIENT AND CREATED BY CMX, MANALPAN, NJ. DATED 2009.
2. REMEDIAL INVESTIGATION (RI) SOIL BORING, TEST PIT, AND MONITORING WELL LOCATIONS ARE BASED ON SURVEYS PERFORMED BY CMX INC, MUNOZ ENGINEERING P.C., AND C.T. MALE ASSOCIATES. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) - NEW YORK STATE PLANE EAST.

0 30' 60'
GRAPHIC SCALE

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
FORMER OSSINING WORKS SITE, OPERABLE UNIT NO. 1
OSSINING, NEW YORK
PRE-DESIGN INVESTIGATION REPORT

**SITE MAP WITH FORMER MGP
STRUCTURES AND RI SAMPLING
LOCATIONS**



FIGURE

2

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PDIR_X_Title
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- LEGEND:**
- OPERABLE UNIT OUTLINE
 - EXISTING STRUCTURE
 - WATER
 - TREE
 - HISTORICAL MGP STRUCTURE
 - RI MONITORING WELL
 - RI SOIL BORING SEDIMENT SAMPLE
 - RI SEDIMENT SAMPLE
 - RI TEST PIT
 - ABANDONED MONITORING WELL
 - 5.0' AAR LIMITS AND DEPTH OF SOIL EXCAVATION
 - 16' AAR LIMITS AND DEPTH OF ISS TREATMENT
 - PLANNED NAPL RECOVERY WELL
 - B-2 Sesi SOIL INVESTIGATION BORING LOCATION (SEE NOTE 3)
 - B-1 Sesi GEOTECHNICAL INVESTIGATION BORING (SEE NOTE 3)
 - SB-100 PDI SOIL BORING
 - SS-1 PDI SURFACE SOIL SAMPLE
 - GTP-1 PDI TEST PIT
 - GTP-5 PDI TEST PIT (NOT COMPLETED - SEE NOTE 6)

- NOTES:**
- BASE MAP IS A COMPOSITE OF DIGITAL MAPS RECEIVED FROM THE CLIENT AND CREATED BY CMX, MANALPAN, NJ. DATED 2009.
 - REMEDIAL INVESTIGATION (RI) SOIL BORING, TEST PIT, AND MONITORING WELL LOCATIONS ARE BASED ON SURVEYS PERFORMED BY CMX INC, MUNOZ ENGINEERING P.C., AND C.T. MALE ASSOCIATES. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) - NEW YORK STATE PLANE EAST.
 - BORINGS COMPLETED BY Sesi CONSULTING ENGINEERS (Sesi) IN JUNE 2021.
 - LIMITS AND DEPTH OF SOIL EXCAVATION AND IN-SITU STABILIZATION (ISS) TREATMENT AND NON-AQUEOUS PHASE LIQUID (NAPL) RECOVERY WELL BASED ON OU-1 ALTERNATIVES ANALYSIS REPORT (AAR; ARCADIS 2023).
 - PRE-DESIGN INVESTIGATION (PDI) SOIL BORING, TEST PIT, AND SURFACE SOIL SAMPLE LOCATIONS BASED ON SURVEY PERFORMED BY BORBAS SURVEYING & MAPPING, LLC ON DECEMBER 12, 2023.
 - PDI TEST PIT GTP-5 WAS NOT COMPLETED DUE TO THE PORTION OF HTE WALL ADJACENT TO THIS LOCATION, WHICH CONSISTED OF A TWO-FOOT TALL GRAVITY WALL WITH NO MORTAR THAT MAY HAVE BEEN COMPROMISED BY THE EXCAVATION ACTIVITIES.

0 30' 60'
GRAPHIC SCALE

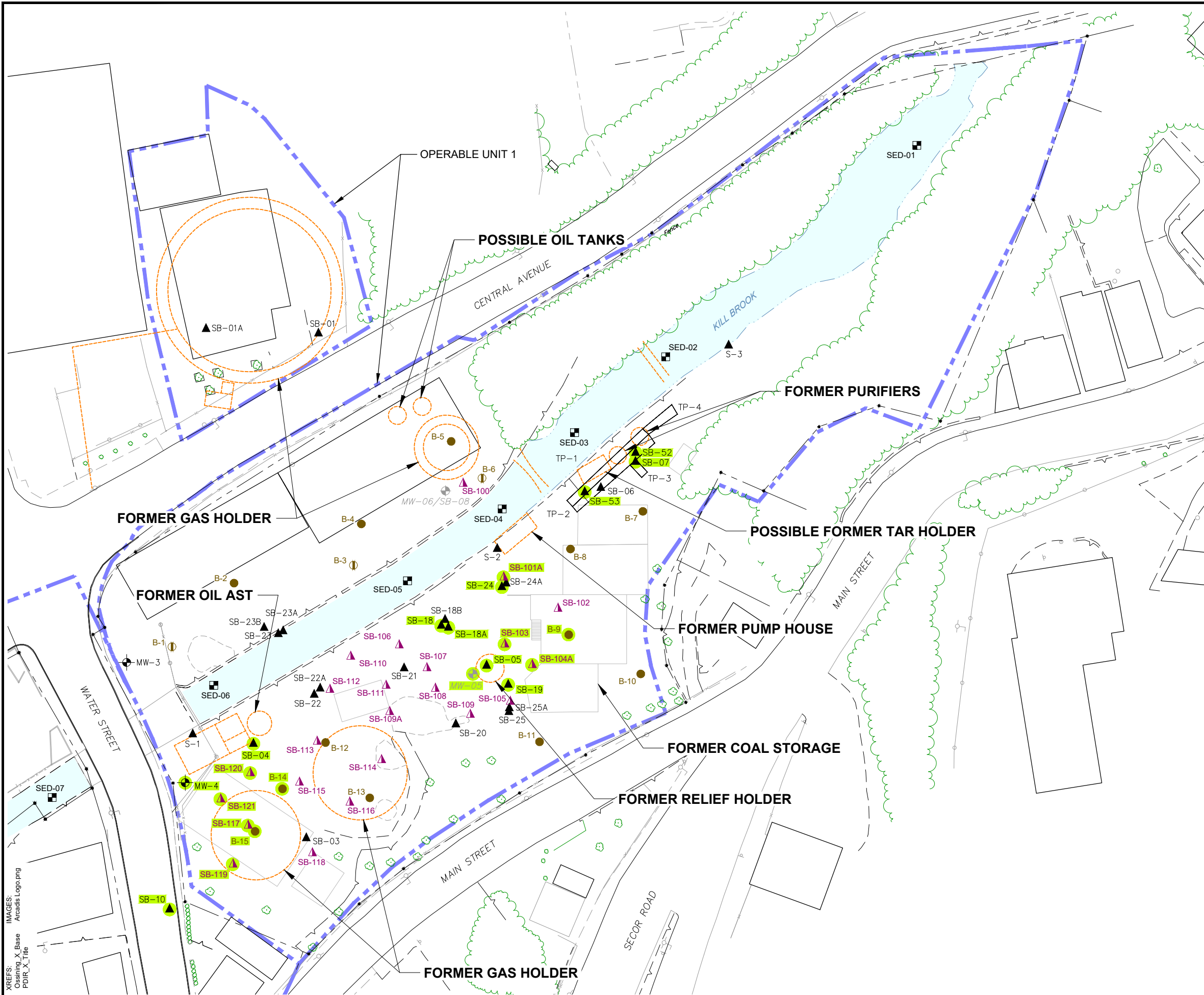
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
FORMER OSSINING WORKS SITE, OPERABLE UNIT NO. 1
OSSINING, NEW YORK
PRE-DESIGN INVESTIGATION REPORT

PDI SOIL SAMPLING AND TEST PIT LOCATIONS



FIGURE
3

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SAVED: 1/26/2024 1:31 PM BY: DECLERCQ, BRIAN



LEGEND:

- OPERABLE UNIT OUTLINE
- EXISTING STRUCTURE
- WATER
- TREE
- HISTORICAL MGP STRUCTURE
- BORING WHERE POTENTIALLY MOBILE NAPL WAS ENCOUNTERED IN SATURATED SOIL
- RI MONITORING WELL
- RI SOIL BORING SEDIMENT SAMPLE
- RI SEDIMENT SAMPLE
- RI TEST PIT
- ABANDONED MONITORING WELL
- SESI SOIL INVESTIGATION BORING LOCATION (SEE NOTE 3)
- SESI GEOTECHNICAL INVESTIGATION BORING (SEE NOTE 3)
- PDI SOIL BORING

NOTES:

- BASE MAP IS A COMPOSITE OF DIGITAL MAPS RECEIVED FROM THE CLIENT AND CREATED BY CMX, MANALPAN, NJ. DATED 2009.
- REMEDIAL INVESTIGATION (RI) SOIL BORING, TEST PIT, AND MONITORING WELL LOCATIONS ARE BASED ON SURVEYS PERFORMED BY CMX INC, MUNOZ ENGINEERING P.C., AND C.T. MALE ASSOCIATES, EXCEPT THE LOCATION FOR SB-56 WHICH IS APPROXIMATED BASED ON FIELD PHOTOS. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) - NEW YORK STATE PLANE EAST.
- PHASE II ENVIRONMENTAL SITE ASSESSMENT BORINGS COMPLETED BY SESI CONSULTING ENGINEERS (SESI) IN JUNE 2021.
- PRE-DESIGN INVESTIGATION (PDI) SOIL BORING, TEST PIT, AND SURFACE SOIL SAMPLE LOCATIONS BASED ON SURVEY PERFORMED BY BORBAS SURVEYING & MAPPING, LLC ON DECEMBER 12, 2023.

0 30' 60'
GRAPHIC SCALE

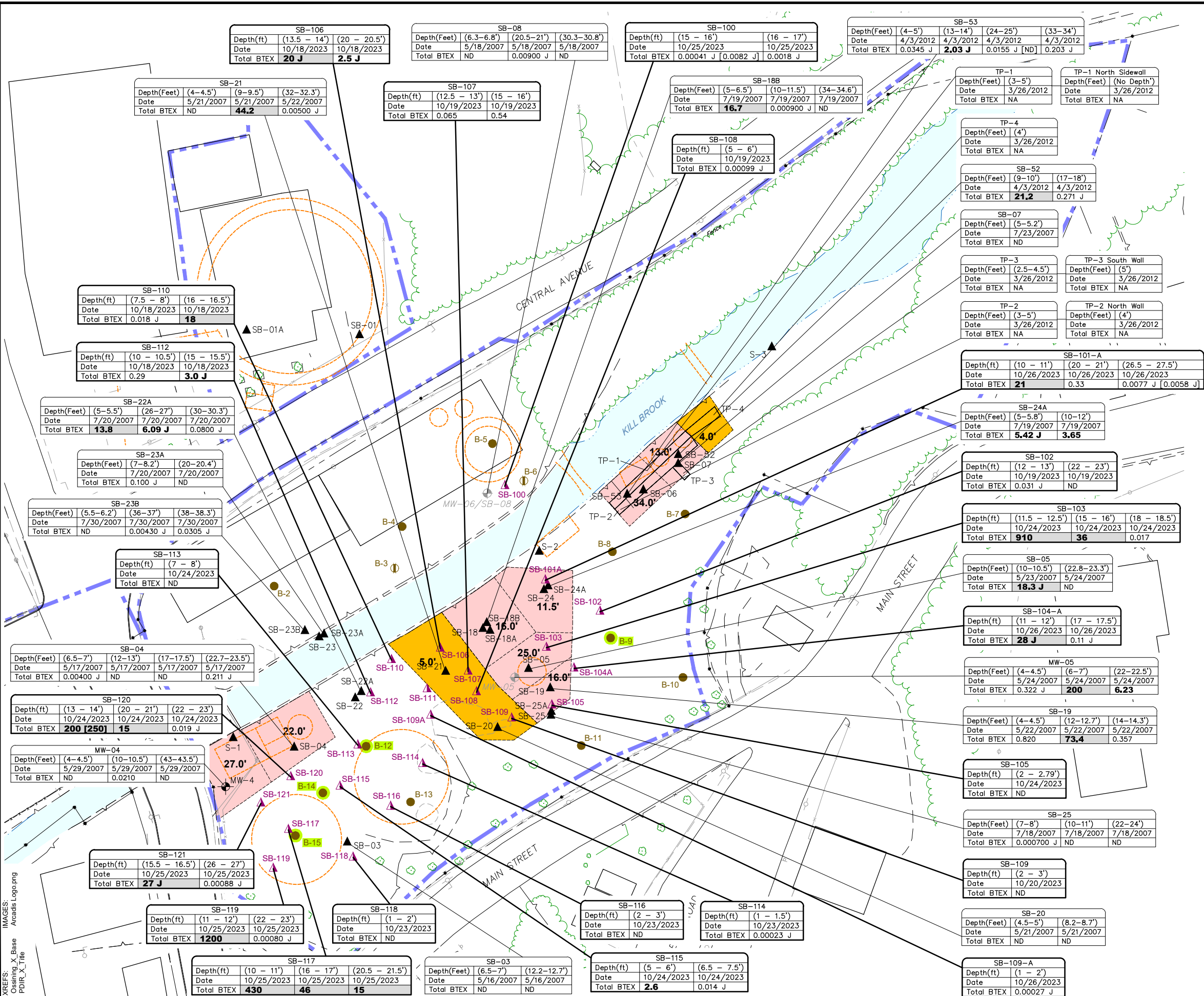
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
FORMER OSSINING WORKS SITE, OPERABLE UNIT NO. 1
OSSINING, NEW YORK
PRE-DESIGN INVESTIGATION REPORT

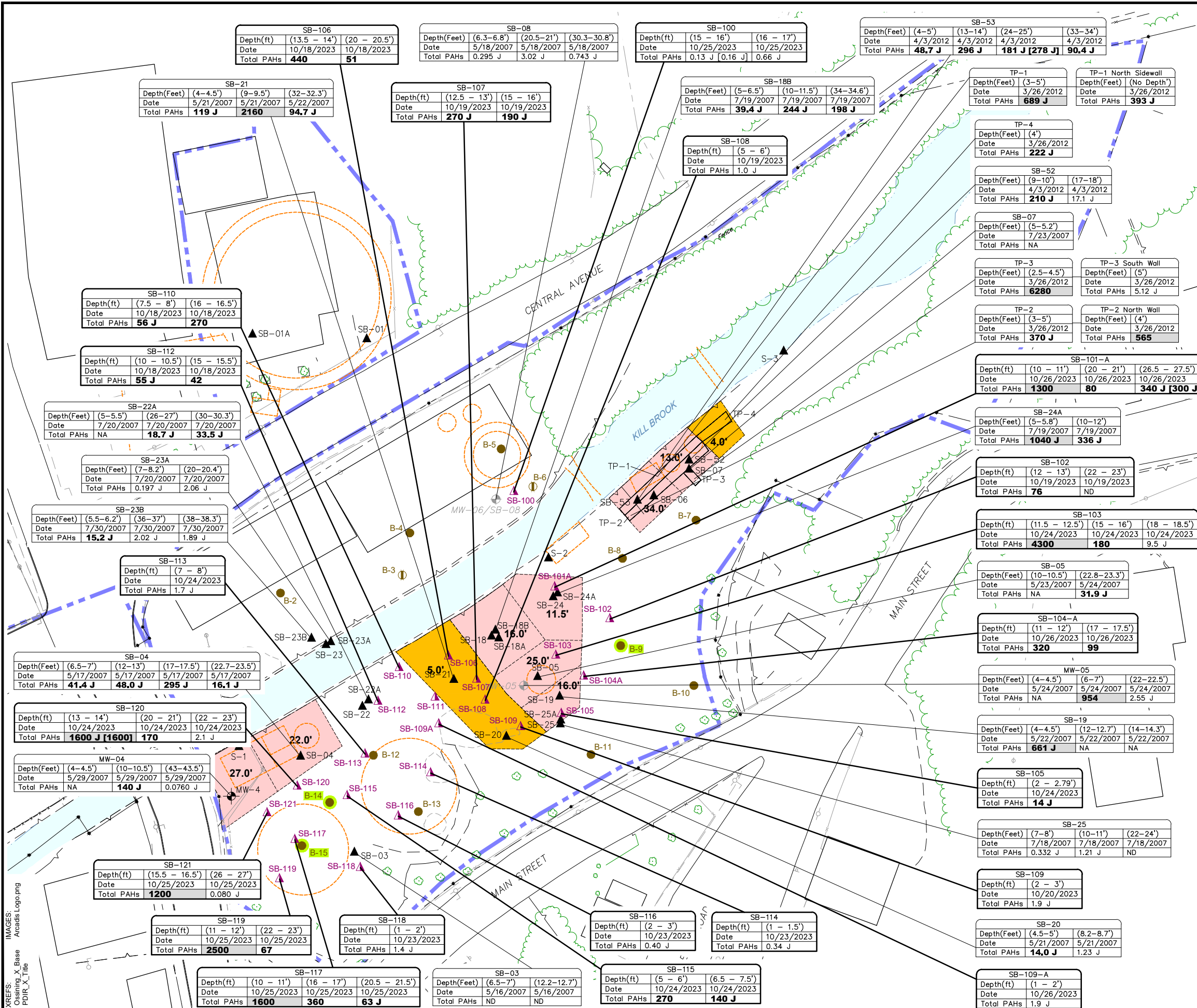
NAPL OBSERVATIONS

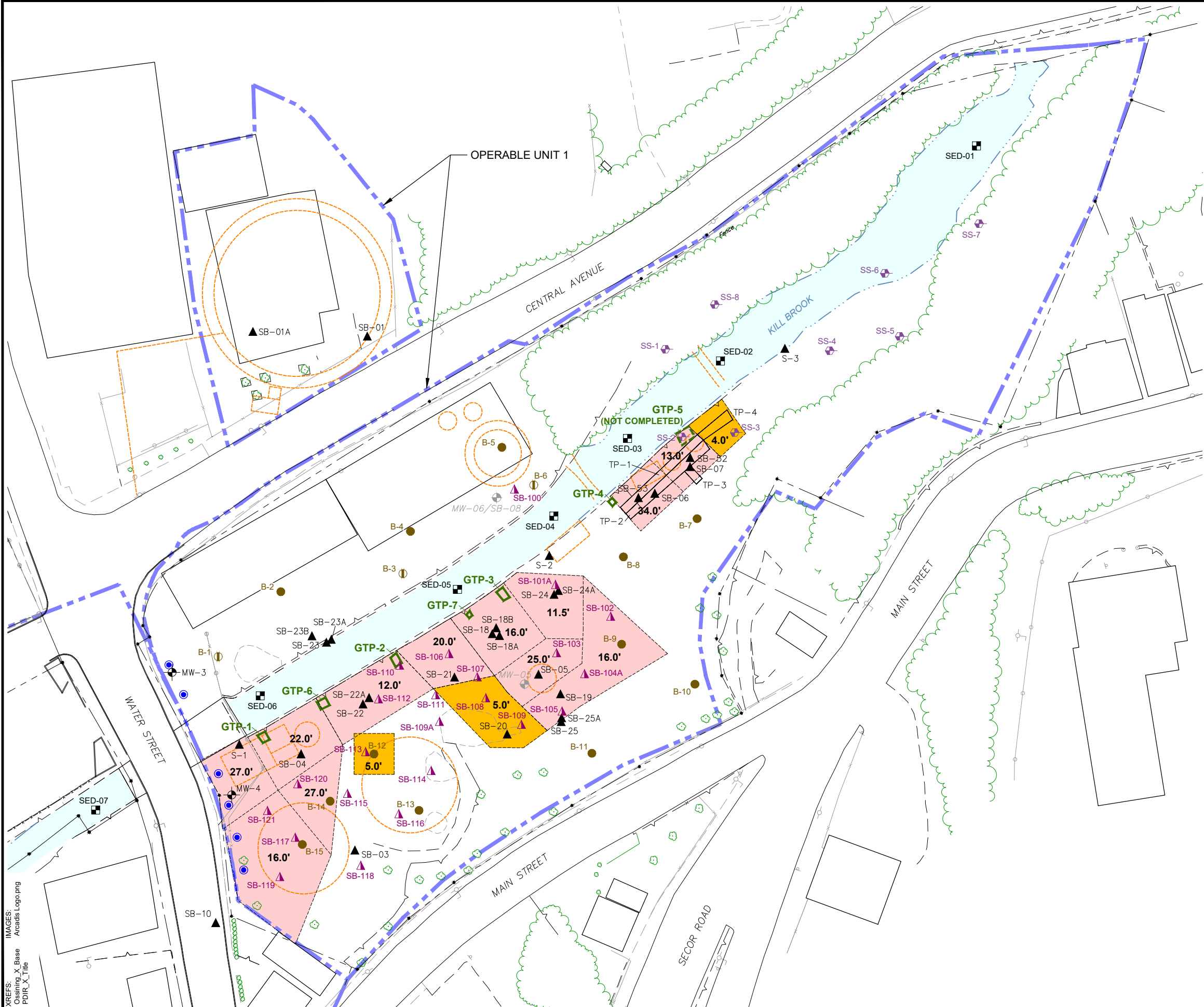


FIGURE

4

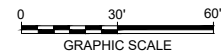






- LEGEND:**
- OPERABLE UNIT OUTLINE
 - EXISTING STRUCTURE
 - WATER
 - TREE
 - HISTORICAL MGP STRUCTURE
 - RI MONITORING WELL
 - RI SOIL BORING SEDIMENT SAMPLE
 - RI SEDIMENT SAMPLE
 - TP-2 RI TEST PIT
 - ABANDONED MONITORING WELL
 - 5.0' UPDATED LIMITS AND DEPTHS OF SOIL EXCAVATION
 - 16' UPDATED LIMITS AND DEPTHS OF ISS TREATMENT
 - PLANNED NAPL RECOVERY WELL
 - B-2 SESI SOIL INVESTIGATION BORING LOCATION (SEE NOTE 3)
 - B-1 SESI GEOTECHNICAL INVESTIGATION BORING (SEE NOTE 3)
 - SB-100 PDI SOIL BORING
 - SS-1 PDI SURFACE SOIL SAMPLE
 - GTP-1 PDI TEST PIT
 - GTP-5 PDI TEST PIT (NOT COMPLETED - SEE NOTE 6)

- NOTES:**
- BASE MAP IS A COMPOSITE OF DIGITAL MAPS RECEIVED FROM THE CLIENT AND CREATED BY CMX, MANALPAN, NJ. DATED 2009.
 - REMEDIAL INVESTIGATION (RI) SOIL BORING, TEST PIT, AND MONITORING WELL LOCATIONS ARE BASED ON SURVEYS PERFORMED BY CMX INC, MUNOZ ENGINEERING P.C., AND C.T. MALE ASSOCIATES. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) - NEW YORK STATE PLANE EAST.
 - BORINGS COMPLETED BY SESI CONSULTING ENGINEERS (SESI) IN JUNE 2021.
 - PRE-DESIGN INVESTIGATION (PDI) SOIL BORING, TEST PIT, AND SURFACE SOIL SAMPLE LOCATIONS BASED ON SURVEY PERFORMED BY BORBAS SURVEYING & MAPPING, LLC ON DECEMBER 12, 2023.
 - PDI TEST PIT GTP-5 WAS NOT COMPLETED DUE TO THE PORTION OF HTE WALL ADJACENT TO THIS LOCATION, WHICH CONSISTED OF A TWO-FOOT TALL GRAVITY WALL WITH NO MORTAR THAT MAY HAVE BEEN COMPROMISED BY THE EXCAVATION ACTIVITIES.
 - UPDATED LIMITS AND DEPTH OF SOIL EXCAVATION AND IN-SITU STABILIZATION (ISS) TREATMENT BASED ON PDI REPORT (ARCADIS 2024).



CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
FORMER OSSINING WORKS SITE, OPERABLE UNIT NO. 1
OSSINING, NEW YORK
PRE-DESIGN INVESTIGATION REPORT

**UPDATED ISS TREATMENT AND
SOIL EXCAVATION LIMITS**



Appendix A

Boring Logs

Date Start/Finish: 10/24/2023 / 10/25/2023 Sampling Method: Sonic Rig Type: Fraste XL Max Drilling Method: Sonic Sleeves, 5' Runs		Drilling Company: Cascade Env Driller's Name: D.Moon Borehole Depth: 30' Descriptions By: A.Gibson		Well/Boring ID: SB-100 Client: Con Edison Location: Ossining, NY	
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-60" greyish light Brown fine SAND, some Silt, trace medium Sand, coarse Sand, little fine to coarse subangular to subrounded low to medium sphericity Gravel, trace Cobbles, moist, soft	0.0
1.00			
2.00			
3.00			
4.00			
5.00		0-18" greyish light Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft	0
6.00		18-36" Grey SILT, some fine Sand, trace medium Sand, moist to wet, medium stiff	0.2
7.00			0.1
8.00			0.1
9.00			0.1
10.00		0-15" greyish Brown SILT, some Sand, little Clay, trace medium Sand, wet, soft	0.0
11.00		15-31" dark greyish Brown fine SAND, little medium Sand, trace fine to coarse similar Gravel, mica flakes, wet, soft, loose	0.0
12.00			0.0
13.00			0.0
14.00			0.0
15.00			0.0

 Design & Consultancy for natural and built assets	Remarks: ' : Feet" : Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-100

Site Location:

Borehole Depth: 30'

Ossining, NY

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-13" dark greyish Brown fine SAND, some Silt, medium Sand, little coarse Sand, trace fine to coarse similar Gravel, wet, soft	0.0
		13-24" very dark Grey fine SAND, some Silt, medium Sand, little coarse Sand, trace fine to coarse similar Gravel, wet, soft, moderate staining, slight unidentifiable odor	0.0
		24-35" Grey SILT, some fine Sand, trace medium Sand, coarse Sand, fine similar Gravel, wet, soft	0.2
17.00			0.1
18.00			
19.00			
20.00		0-11" Grey fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, soft	0.0
		11-22" Grey fine SAND, some Silt, little medium Sand, trace fine to medium similar Gravel, wet, soft	0.0
21.00			0.0
22.00			0.0
23.00			
24.00			
25.00		0-10" dark Grey SILT, little fine Sand, Clay, trace medium Sand, coarse Sand, fine to medium similar Gravel, wet, medium stiff	0.0
26.00		10-30" Grey weathered pulverized Rock, refusal @ 30' bgs	0.0
27.00			0.0
28.00			0.0
29.00			
30.00			



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Remarks: ' : Feet" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish:	10/26/2023 / 10/26/2023	Drilling Company:	Cascade Env.	Well/Boring ID:	SB-101A
Sampling Method:	Sonic	Driller's Name:	D.Moon	Client:	Con Edison
Rig Type:	Fraste XL Max	Borehole Depth:	29'	Location:	Ossining, NY
Drilling Method:	Sonic Sleeves, 5' Runs	Descriptions By:	A.Gibson		
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-30" very dark Grey fine SAND, some Silt, little medium Sand, coarse Sand, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, brick debris, wood debris, moist, stiff	0.0
1.00		30-33" Asphalt debris	
2.00		33-60" light Brown fine SAND, little Silt, medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft	
3.00			
4.00			
5.00		0-4" dark Brown fine SAND, some Silt, little medium Sand, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft, plastic debris, slight mothball like odor	
6.00		4-13" pulverized Rock	
7.00		13-18" very dark Grey SILT, some fine Sand, trace medium Sand, fine to medium subangular to subrounded low to medium shphericity Gravel, moist to wet, soft, moderate mothball like odor	
8.00			
9.00			
10.00			
11.00		0-4" Black fine SAND, some medium Sand, little coarse Sand, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft, strong mothball like odor, heavily NAPL coated grains	126.1
12.00		4-36" Black fine SAND, some medium Sand, little coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist to wet, soft, strong mothball like odor, heavy staining, lightly NAPL coated grains	158.7
13.00			248.3
14.00			200.7
15.00			259.6
			290.8

 ARCADIS Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-101A

Site Location:
Ossining, NY

Borehole Depth: 29'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)
16.00		0-13" Black fine SAND, some medium Sand, little coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft, strong mothball like odor, heavily NAPL coated grains	149.2
		13-22" light Brown crushed Rock	112.9
17.00		22-36" Black fine SAND, some medium Sand, little coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate mothball like odor, heavy staining	64.2
18.00			67.0
19.00			66.7
20.00			56.0
21.00		0-5" Black fine SAND, some Silt, little fine subangular to subrounded low to medium sphericity Gravel, trace medium Sand, wet, soft, heavy staining, moderate mothball like odor	47.2
22.00		5-12" Black coarse SAND, some medium Sand, little fine Sand, fine subangular to subrounded low to medium sphericity Gravel, lightly NAPL coated grains, moderate mothball like odor, scattered sheens	43.5
23.00		12-17" Black fine SAND, some Silt, little fine subangular to subrounded low to medium sphericity Gravel, trace medium Sand, wet, soft, heavy staining, moderate mothball like odor	56.4
24.00		17-26" dark Grey, SILT, some fine Sand, trace medium Sand, coarse Sand, fine to coarse similar Gravel, moist, stiff, moderate staining, slight mothball like odor, till	68.8
25.00		26-36" dark Grey SILT, some fine Sand, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, till	79.5
26.00			88.4
27.00		0-13" light Tan to Black, SILT, some fine Sand, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, slight mothball like odor, slight staining, till	3.6
28.00		13-22" very dark Grey fine SAND, little medium Sand, Silt, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate staining, slight mothball like odor	4.7
29.00		22-32" mottled greyish Brown SILT, some fine Sand, little weathered rock, trace medium Sand, coarse Sand, fine to coarse angular to subrounded low to medium sphericity Gravel, moist, stiff, till	20.2
		32-36" weathered Rock, refusal @ 29' bgs	5.6
			4.5
			3.7



Remarks: ' : Feet
 " : Inches
 bgs: below ground surface
 ppm: parts per million

Date Start/Finish:	10/19/2023 / 10/19/2023	Drilling Company:	Cascade Env.	Well/Boring ID:	SB-102
Sampling Method:	Sonic	Driller's Name:	D.Moon	Client:	Con Edison
Rig Type:	Fraste XL Max	Borehole Depth:	29'	Location:	Ossining, NY
Drilling Method:	Sonic Sleeves, 5' Runs	Descriptions By:	A.Gibson		
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-10" Gravel/Asphalt	0.0
1.00		10-50" Black very fine fine SAND, little brick debris, dry, stiff	
2.00		50-60" brownish Grey, weathered Rock, dry, stiff	
3.00			
4.00			
5.00			
6.00		0-10" light Brown fine SAND, some fine to coarse angular to subrounded low to medium sphericity	0.2
7.00		Gravel, brick debris, little medium Sand, coarse Sand, wet, soft,	4.3
8.00		10-14" Black fine SAND, some fine to medium subangular to subrounded low to medium sphericity	9.6
9.00		Gravel, little medium Sand, Silt, trace coarse Sand, wet, soft, slight petroleum like odor, heavy staining	
10.00			
11.00		0-16" Black fine SAND, some fine subangular to subrounded low to medium sphericity Gravel, little	0.0
12.00		medium Sand, coarse Sand, Silt, wet, soft, heavy staining, moderate mothball like odor	31.8
13.00		16-22" Black fine SAND, some Silt, wet, soft, heavy staining, moderate mothball like odor	51.0
14.00		22-25" dark Grey fine SAND and SILT, moist, medium stiff, slight staining, slight mothball like odor	76.66
15.00		25-31" Black fine SAND, some Silt, little medium Sand, coarse Sand, wet, soft, moderate mothball like	9.8
		odor, NAPL blebs	43.5
		31-37" greyish light Brown SILT, little fine Sand, soft, moist, slight staining, slight mothball like odor	
		37-41" Black fine SAND, some medium Sand, little coarse Sand, trace fine subangular to subrounded	
		low to medium sphericity Gravel, wet, moderate mothball like odor, heavy staining	
		41-48" Grey SILT, some fine SAND, trace medium Sand, coarse Sand, fine to medium similar Gravel,	
		moist, stiff, slight staining, slight mothball like odor, @47" thick band of heavy NAPL coated grains, till	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-102

Site Location:

Borehole Depth: 29'

Ossining, NY

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-20" light brownish Grey fine SAND, some Silt, little medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, stiff, slight sheen 16-17", slight staining, till	0.2 0.0 0.0
17.00		20-34" light Brown fine SAND, some Silt, little medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, stiff, mica flakes throughout, till	0.0 0.0 0.0
18.00			
19.00			
20.00			
21.00		0-15" light Brown fine SAND, some Silt, little medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft	0.0 0.0 0.0
22.00		15-33" light Brown fine SAND, little Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft	0.0 0.0 0.0
23.00			
24.00			
25.00			
26.00		0-20" light Brown fine SAND, little Silt, fine subangular to subrounded low to medium sphericity Gravel, trace medium Sand, coarse Sand, wet, soft	0.0 0.0 0.0
27.00		20-22" Grey pulverized Rock with red mineral inclusions, refusal @ 29' bgs	0.0 0.0
28.00			
29.00			

 ARCADIS Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/20/2023 / 10/24/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-103	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 28'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-60" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, cobbles, moist, stiff, brick debris 0-20"	0.0
1.00			
2.00			
3.00			
4.00			
5.00		0-21" greyish Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, moist to wet, soft	28.8
6.00		21-27" Black fine SAND, some Silt, trace medium to coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, heavily NAPL coated grains, strong mothball like odor	41.6
7.00			75.5
8.00			348.5
9.00			612.1
10.00		0-29" Black fine SAND, little Silt, medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, NAPL saturated, strong mothball like odor	686.6
11.00		29-39" mottled greyish Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, stiff, slight mothball like odor, till	666.4
12.00		39-46" mottled Black fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, stiff, strong mothball like odor, heavy staining, till	779.6
13.00			692.4
14.00			560.4
15.00			221.1
			187.9
			244.7

 ARCADIS Design & Consultancy for natural and built assets		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-103

Site Location:

Borehole Depth: 28'

Ossining, NY

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-24" Black fine SAND, some Silt, little medium Sand, coarse Sand, fine to coarse similar Gravel, wet, soft, NAPL blebs throughout, heavy staining, moderately NAPL coated grains, strong mothball like odor	226.3
		24-27" Grey fine SAND, some Silt, wet, soft, slight staining, moderate mothball like odor	97.3
		27-34" greyish Brown fine SAND, little medium Sand, coarse Sand, Silt, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, slight mothball like odor, slight staining	46.2
17.00			44.4
			28.4
			15.7
18.00		34-43" Brown fine SAND, little medium Sand, coarse Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft	16.0
19.00			
20.00			
21.00		0-8" Brown fine SAND, little medium Sand, coarse Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft	2.6
22.00			3.0
23.00			
24.00			
25.00		0-10" greyish Brown fine SAND, little medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, scattered light sheens	2.4
26.00		10-30" Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, @ 21-22" moderate NAPL coated grains, till	2.1
27.00		30-36" pulverized Rock, refusal @ 28' bgs	2.0
28.00			1.8
			1.9
			1.8



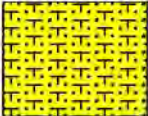
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Remarks: ' : Feet
" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish: 10/18/2023 / 10/18/2023		Drilling Company: Cascade Env.	Well/Boring ID: SB-104
Sampling Method: Hand tools		Driller's Name: D.Moon	Client: Con Edison
Rig Type: Hand cleared only		Borehole Depth: 1.5'	Location: Ossining, NY
Drilling Method: Hand tools		Descriptions By: A.Gibson	

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

0.00		0-30" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, cobbles, brick debris dry, stiff, concrete slab at bottom of hole, refusal @ 1.5' bgs	0.0
1.00			



Remarks: ' : Feet
" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish: 10/26/2023 / 10/26/2023 Sampling Method: Sonic Rig Type: Fraste XL Max Drilling Method: Sonic Sleeves, 5' Runs		Drilling Company: Cascade Env. Driller's Name: D.Moon Borehole Depth: 20' Descriptions By: A.Gibson	Well/Boring ID: SB-104A Client: Con Edison Location: Ossining, NY
DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

0.00		0-60" dark Grey fine SAND, some Silt, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, cobbles, brick debris, dry, stiff	0.0
1.00			
2.00			
3.00			
4.00			
5.00			
6.00		0-6" dark Grey fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, brick debris, moist, stiff	3.6
7.00		6-12" coal debris, wet, soft	4.7
8.00		12-32" Grey pulverized Concrete	20.2
9.00		32-38" Black fine SAND, some medium Sand, little Silt, coarse Sand, trace fine angular to subrounded low to medium sphericity Gravel, wet, soft, slight mothball like odor	5.6
10.00			4.5
11.00			3.7
12.00			
13.00			
14.00			
15.00			
		0-12" Black coal debris, wet, soft, slight mothball like odor	15.4
		12-27" Black fine SAND, some Silt, trace medium Sand, wet, soft, heavy staining, scattered NAPL blebs	242.5
		27-42" Grey with scattered Black SILT, some fine Sand, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, moderate mothball like odor, till	134.1
			92.5
			58.2
			94.4
			48.0

 ARCADIS Design & Construction for natural and built assets	Remarks: ' : Feet " : Inches bgs: below ground surface ppm: parts per million

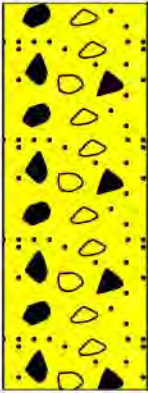
Client: Con Edison

Well/Boring ID: SB-104A

Site Location:
Ossining, NY

Borehole Depth: 20'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-8" dark Grey SILT, some fine Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, trace mothball like odor, moderate staining, till	19.9
17.00		8-23" pulverized weathered Rock	11.7
18.00		23-30" dark Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moderate mothball like odor, moderate staining, moist, stiff	90.7
19.00		30-32" pulverized Rock, refusal @ 20' bgs	33.5
20.00			18.1



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built assets

Remarks: ' : Feet
" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish: 10/23/2023 / 10/23/2023 Sampling Method: Hand Tools Rig Type: Hand cleared only Drilling Method: Hand Tools		Drilling Company: Cascade Env. Driller's Name: D.Moon Borehole Depth: 2.3' Descriptions By: A.Gibson		Well/Boring ID: SB-105 Client: Con Ed Location: Ossining, NY	
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-24" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse angular to subrounded low to medium sphericity Gravel, cobbles, dry, stiff	0.0
1.00		24-28" mottled dark brownish Grey weathered rock, refusal @ 2.4' bgs	
2.00			

 Design & Consultancy for natural and built assets	Remarks: ' : Feet " : Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/17/2023 / 10/18/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-106	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 30'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-11" Asphalt	0.0
1.00		11-60" dark Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, brick debris, coal debris, slag debris, moist, soft	
2.00			
3.00			
4.00			
5.00			
6.00		0-21" Black fine SAND, some fine to medium angular to subrounded low to medium sphericity Gravel, little Silt, medium Sand, trace coarse Sand, wet, soft, wood debris @ 20-21" slight petroleum odor, heavy staining, trace Gravel like debris 5-21"	3.4
7.00			5.8
8.00			8.1
9.00			5.4
10.00			
11.00		0-11" very dark Grey fine SAND, some Silt, wet, soft, slight mothball like odor, heavy staining, slightly NAPL coated grains	39.0
12.00		11-32" Black fine SAND, some Silt, little fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, slight mothball like odor, moderately NAPL coated grains	66.0
13.00		32-36" very dark Grey SILT, some fine Sand, trace fine similar Gravel, moderate mothball like odor, moderately NAPL coated grains, moist, soft	18.3
14.00		36-49" Black fine SAND, some medium Sand, Silt, little coarse Sand, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate mothball like odor, heavily NAPL coated grains	47.1
15.00		49-52" very dark Grey SILT, some fine Sand, wet, soft, moderate mothball like odor, moderately NAPL coated grains	29.4
			34.3
			79.1
			43.7

 ARCADIS		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million	
Design & Consultancy for natural and built assets			

Client: Con Edison

Well/Boring ID: SB-106

Site Location:
Ossining, NY

Borehole Depth: 30'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-4" very dark Grey fine SAND, little Silt, trace medium Sand, wet, soft, heavy staining, slight mothball like odor	17.8
		4-19" Black fine SAND, some medium Sand, little coarse Sand, Silt, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, heavy staining, moderate mothball like odor	104.4
		19-39" Black fine SAND, some Silt, little medium Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft, slight mothball like odor, heavy staining	36.4
17.00		39-48" very dark Grey fine SAND, some Silt, little fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, soft, moderate staining, slight mothball like odor	19.1
			11.2
			22.9
			28.3
			21.7
20.00		0-9" Black SILT, some fine Sand, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, fine cobbles, heavy staining, slight mothball like odor, wet, soft	9.4
21.00		9-16" very dark Grey mottled Brown weathered Rock	28.9
		16-30" light Tan pulverized Rock	6.3
			3.5
			2.9
25.00		0-10" mottled greyish Brown weathered Rock, slight staining	0.6
		10-24" light grey pulverized Rock, refusal @ 30' bgs	0.9
			1.2
			1.3



Remarks: ' : Feet
" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish: 10/17/2023 / 10/19/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-107	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 25'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-4" very dark Brown coarse SAND, some fine Sand, little fine to coarse subangular to subrounded low to medium sphericity Gravel, trace angular cobbles, Silt, moist, soft	0.0
1.00		4-22" Grey fine SAND, some Silt, little medium Sand, coarse Sand, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, Cobbles, moist, stiff	
2.00		22-46" dark Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium similar Gravel, brick debris, slag debris, moist, soft	
3.00		46-52" greyish Brown fine SAND, some medium Sand, little Silt, coarse Sand, trace fine similar Gravel, slag debris, dry, soft	
4.00		52-60" very dark Brown fine SAND, some medium Sand, little Silt, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, slag debris, dry, soft	
5.00			
6.00		0-20" very dark Brown SILT, some fine Sand, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to sphericity Gravel, brick debris, slag debris, moist, soft	0.4
7.00		20-26" very dark Brown fine SAND, some medium Sand, little coarse Sand, Silt, wet, soft, slight staining	0.0
8.00			0.0
9.00			0.0
10.00			0.0
11.00		0-21" brownish Grey SILT, some fine Sand, trace medium Sand, coarse Sand, wet, soft, slight staining, slight mothball like odor	4.6
12.00		21-35" Black fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, wood debris, wet, soft, moderate mothball like odor, heavily NAPL coated grains	1.3
13.00		35-49" Black fine SAND, some Silt, little medium Sand, fine to coarse similar Gravel, coarse Sand, moist, soft, heavy staining, slight mothball like odor	10.2
14.00			31.7
15.00			58.8
			52.8
			35.5
			21.7

 ARCADIS		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million	
Design & Consultancy for natural and built assets			

Client: Con Edison

Well/Boring ID: SB-107

Site Location:

Borehole Depth: 25'

Ossining, NY

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

15.00		0-15" Black SILT and fine SAND, little medium Sand, trace coarse Sand, wet, soft, moderate mothball like odor, loose, heavy staining, scattered NAPL blebs and sheen throughout	7.8
		15-27" Black SILT, some fine Sand, trace medium Sand, coarse Sand, fine to medium similar Gravel, moist to wet, stiff, heavy staining, slight mothball like odor, slightly NAPL coated grains	7.5
		27-42" Brownish Grey SILT, some fine Sand, trace medium subangular to subrounded low to medium sphericity Gravel, wood debris and roots, moist, soft, slight mothball like odor, slight staining	2.3
17.00			2.7
			2.8
18.00			10.4
			5.4
19.00			
20.00		0-19" Black fine SAND, some medium Sand, little coarse Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, heavy staining, slight mothball like odor	8.4
		19-26" light greyish Tan pulverized Rock, scattered mica flakes, red crystal inclusions, refusal @ 25' bgs	3.1
21.00			4.2
			2.8
22.00			4.7
23.00			
24.00			
25.00			



Remarks: ' : Feet
 " : Inches
 bgs: below ground surface
 ppm: parts per million

Date Start/Finish: 10/17/2023 / 10/19/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-108	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Hand cleared only		Borehole Depth: 8.5'		Location: Ossining, NY	
Drilling Method: Hand tools		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-6" dark Brown coarse SAND, some fine Sand, sine Sand, little fine to coarse angular to subangular low sphericity Gravel, cobble sized rocks, moist, stiff	0.0
1.00		6-28" Grey fine SAND, some Silt, little medium Sand, coarse Sand, little fine to coarse angular to subangular low sphericity Gravel, trace cobbles, moist, stiff	
2.00		28-60" yellowish light Brown fine SAND, some Silt, little medium Sand, coarse Sand, stiff, moist, mica flakes throughout	
3.00			
4.00			
5.00			
6.00		0-6" dark greyish Brown fine SAND, some Silt, trace coarse Sand, medium Sand, rock chunks, dry, stiff	0.0
7.00		6-42" tannish Grey weathered pulverized rock, refusal @ 8.5' bgs	0.0
8.00			0.0

 Design & Consultancy for natural and built assets		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/20/2023 / 10/26/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-109	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Hand cleared only		Borehole Depth: 3.0'		Location: Ossining, NY	
Drilling Method: Hand tools		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-36" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, cobbles, dry, stiff	0.0
1.00			
2.00		18-36" dark brownish Grey weathered rock, refusal @ 3.0' bgs	0.0
3.00			



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for natural and
built assets

Remarks: ' : Feet
" : Inches
bgs: below ground surface
ppm: parts per million

Date Start/Finish: 10/26/2023 / 10/26/2023		Drilling Company: Cascade Env.	Well/Boring ID: SB-109A
Sampling Method: Hand tools		Driller's Name: D.Moon	Client: Con Edison
Rig Type: Hand cleared only		Borehole Depth: 2.3'	Location: Ossining, NY
Drilling Method: Hand tools		Descriptions By: A.Gibson	

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

0.00		0-24" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, cobbles, brick debris dry, stiff	0.0
1.00			
3.00		24-28" dark brownish Grey weathered rock, refusal @ 28"	0.0



Remarks: ': Feet
 ": Inches
 bgs: below ground surface
 ppm: parts per million

Date Start/Finish: 10/16/2023 / 10/18/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-110	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 30'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-7" Asphalt	0.0
1.00		7-13" very dark Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, moist, soft	
2.00		13-26" dark Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, slag debris, moist, soft, trace mothball like odor	
3.00			
4.00			
5.00		0-5" very dark Grey fine SAND, some Silt, little fine to medium subangular to subrounded low to medium sphericity Gravel, trace medium Sand, coarse Sand, wet, soft, slight petroleum like odor	22.4
6.00		5-21" dark Grey fine SAND, some Silt, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate petroleum like odor, scattered NAPL blebs	27.8
7.00		21-25" dark Grey fine SAND, some Silt, little fine subangular to subrounded low to medium sphericity Gravel, moderate petroleum like odor, wet, soft, some staining	30.6
8.00		25-35" dark Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, slight petroleum like odor	33.7
9.00		35-41" very dark Grey fine SAND, som Silt, little medium Sand, coarse Sand, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft, slight petroleum like odor	40.6
10.00			25.9
11.00		0-19" Black fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, Cobbles, wet, soft, moderate petroleum like odor, moderate staining, scattered NAPL blebs	34.8
12.00		19-26" light Tan pulverized Rock	102.4
13.00		26-36" very dark Grey fine SAND, some Silt, little fine to coarse subangular to subrounded low to medium sphericity Gravel, medium Sand, trace coarse Sand, moist to wet, soft, slight petroleum like odor, moderate staining	16.6
14.00			86.2
15.00			41.7
			56.4
			57.7
			24.4

	Remarks:	': Feet
		"': Inches
		bgs: below ground surface
		ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-110

Site Location:

Borehole Depth: 30'

Ossining, NY

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)
16.00		0-12" Black medium SAND, some Silt, fine Sand, little coarse Sand, wet, soft, moderate mothball like odor, very heavy staining	41.8 35.7
17.00		12-15" Black SILT, some fine Sand, trace medium Sand, wet, soft, heavy staining, moderate mothball like odor	117.3 40.7
18.00		15-31" Black medium SAND, some Silt, fine Sand, little coarse Sand, wet, soft, heavy staining, moderate mothball like odor,	137.2 63.0
19.00		31-41" dark greyish Tan SILT, little fine Sand, fine subangular to subrounded low to medium sphericity Gravel, moist, soft, moderate staining, slight mothball like odor	25.5 23.8
20.00		41-48" very dark Grey SILT, some fine Sand, little medium Sand, pulverized rock, moist, soft, moderate staining, slight mothball like odor	
21.00		0-14" Black SILT, some fine Sand, trace medium Sand, coarse Sand, heavy staining, slight mothball like odor, wet, loose, scattered sheens	4.9 8.1
22.00		14-26" Black SILT, some fine Sand, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, heavy staining, slight mothball like odor, wet, loose	19.6 8.0
23.00		26-31" light Tan pulverized rock	8.7
24.00		31-40" mottled dark brownish Grey weathered Rock	10.1 6.0
25.00		0-13" very dark Grey fine SAND, some Silt, little fine to coarse subangular to subrounded low to medium sphericity Gravel, Cobbles, moist, soft, weathered rock, moderate staining, slight mothball like odor	18.4 29.5
26.00		13-24" pulverized Rock, refusal @ 30' bgs	3.6 4.4
27.00			
28.00			
29.00			
30.00			



Remarks: ' : Feet
 " : Inches
 bgs: below ground surface
 ppm: parts per million

Date Start/Finish: 10/17/2023 / 10/19/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-111	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 12'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-10" very dark Brown coarse SAND, some fine Sand, fine to coarse angular low to medium sphericity Gravel, little Cobbles, moist, stiff	0.0
1.00		10-16" Asphalt	
2.00		16-26" yellowish light Brown fine SAND, some Silt, Clay, little medium Sand, coarse Sand, stiff, moist, mica flakes throughout	
3.00		26-34" greyish yellowish light Brown fine SAND, some medium Sand, little coarse Sand, Silt, Clay, fine to medium angular low to medium sphericity Gravel, moist, stiff, mica flakes throughout	
4.00		34-60" Grey fine SAND, fine to coarse angular low sphericity Gravel, moist, stiff, weathered rock	
5.00			
6.00		0-47" tannish Grey pulverized weathered Rock	0.0
7.00			0.1
8.00			0.0
9.00			0.0
10.00			0.0
11.00		0-30" tannish Grey pulverized weathered Rock, slight mothball like odor, slight NAPL coated grains, refusal @ 12' bgs	2.5
12.00			1.3

 Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/16/2023 / 10/18/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-112	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 25'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-50" very dark Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, brick debris, slag debris, moist, soft, slight petroleum like odor	0.0
1.00		50-60" very dark greyish Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, Cobble sized fill, brick debris, moist to wet, slight petroleum like odor	0.0
2.00			0.0
3.00			0.0
4.00			0.0
5.00			0.4
6.00			1.1
7.00			0.0
8.00			
9.00			
10.00			
11.00			
12.00			
13.00			
14.00			
15.00			
0.00		0-4" very dark Grey fine SAND, some Silt, medium Sand, little coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate staining, slight petroleum like odor	2.7
1.00		4-26" Black fine SAND, some Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, heavy staining, slight petroleum like odor	10.5
2.00		26-36" very dark Grey SILT, little fine Sand, trace subangular to subrounded low to medium sphericity Gravel, wet, soft, slight petroleum like odor	6.4
3.00			4.5
4.00			20.5
5.00			18.4
6.00			
7.00			
8.00			
9.00			
10.00			
11.00			
12.00			
13.00			
14.00			
15.00			
0.00		0-18" Black SILT, some fine Sand, little coarse Sand, medium Sand, trace subangular to subrounded low to medium sphericity Gravel, wet, soft, slight petroleum like odor, NAPL blebs @ 3", @ 3.9" heavy staining	8.6
1.00		18-36" pulverized weathered Rock	12.4
2.00			7.0
3.00			12.3
4.00			6.1
5.00			25.1
6.00			
7.00			
8.00			
9.00			
10.00			
11.00			
12.00			
13.00			
14.00			
15.00			

 ARCADIS		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million	
Design & Consultancy for natural and built assets			

Client: Con Edison

Well/Boring ID: SB-112

Site Location:
Ossining, NY

Borehole Depth: 25'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-2" dark Grey fine SAND, some Silt, trace medium Sand, coarse Sand, wet, soft, moderate staining	1.2
		2-13" dark Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate staining	0.7
		13-19" pulverized weathered Rock	0.4
		19-31" greyish light Brown fine SAND, little Silt, trace medium Sand, wet, soft	0.3
17.00		31-38" dark Grey fine SAND, little medium Sand, coarse Sand, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft	0.2
		38-47" dark Grey weathered Rock	0.1
18.00			0.1
19.00			
20.00			
21.00		0-11" dark Grey weathered Rock	0.0
		11-24" pulverized Rock, refusal @ 25' bgs	0.0
22.00			0.0
23.00			0.0
24.00			
25.00			



Remarks: ' : Feet
 " : Inches
 bgs: below ground surface
 ppm: parts per million

Date Start/Finish: 10/20/2023 / 10/24/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-113	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 12'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-11" Asphalt	0.0
1.00		11-60" dark brownish Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft, brick debris 18-25"	
2.00			
3.00			
4.00			
5.00		0-9" dark brownish Grey fine SAND, some Silt, little medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft	0.6
6.00		9-35" dark brownish Grey fine SAND, some Silt, trace medium Sand, wet, soft, slight petroleum like odor and slight staining 34-35"	0.1
7.00		35-51" dark Grey weathered Rock	0.1
8.00			2.3
9.00			2.0
10.00			0.0
11.00			0.0
12.00		0-18" dark brownish Grey weathered Rock, refusal @ 12' bgs	0.2
			0.3
			2.3

 ARCADIS		Remarks: ': Feet "': Inches - bgs: below ground surface - ppm: parts per million	

Date Start/Finish: 10/23/2023 / 10/23/2023 Sampling Method: Sonic Rig Type: Hand cleared only Drilling Method: Hand tools		Drilling Company: Cascade Env. Driller's Name: D.Moon Borehole Depth: 1.5' Descriptions By: A.Gibson		Well/Boring ID: SB-114 Client: Con Edison Location: Ossining, NY	
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-12" Concrete	0.0
1.00		12-18" Grey fine SAND, little medium Sand, coarse Sand, Silt, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff, wet @ 18" 18-20" dark brownish grey weathered Rock, refusal @ 20" bgs	

	Design & Consultancy for natural and built assets	Remarks: ' : Feet " : Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/23/2023 / 10/24/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-115	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 10'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-7" Asphalt	0.0
1.00		7-16" dark brownish Grey fine SAND, some medium Sand, little Silt, coarse Sand, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, brick debris, moist, stiff	
2.00		16-60" dark brownish Grey fine SAND, little Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, moist, soft	
3.00			
4.00			
5.00		0-9" very dark Grey fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium similar Gravel, moist, soft, brick debris	1.5
6.00		9-28" greyish Brown SILT, some fine Sand, trace medium Sand, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, heavy staining and moderate mothball like odor 24-28"	0.7
7.00		28-37" dark brownish Grey heavily weathered Rock	0.4
8.00		37-48" dark brownish Grey weathered Rock, refusal @ 10' bgs	16.9
9.00			2.7
10.00			0.5
			0.3
			0.2

 ARCADIS		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million	

Date Start/Finish: 10/23/2023 / 10/23/2023 Sampling Method: Sonic Rig Type: Hand cleared only Drilling Method: Hand tools		Drilling Company: Cascade Env. Driller's Name: D.Moon Borehole Depth: 3' Descriptions By: A.Gibson		Well/Boring ID: SB-116 Client: Con Edison Location: Ossining, NY	
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-10" Concrete	0.0
		10-30" Grey fine SAND, little medium Sand, coarse Sand, Silt, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, dry, stiff, slight petroleum like odor	0.0
1.00		30-36" dark brownish Grey weathered Rock, refusal @ 36" bgs	0.0
			7.4
2.00			0.0
3.00			0.0

 Region & Consultancy for natural and built assets	Remarks: 0 Feet 0 Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/23/2023 / 10/25/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-117	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 25'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-6" steel reinforced Concrete 5-12" 2-3" diameter RCA	3.4 maximum
1.00		12-24" very dark Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, Cobbles, brick debris, moist, stiff, slight petroleum like odor	
2.00		24-60" very dark Grey fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, Cobbles, brick debris, wet, soft, moderate petroleum like odor, scattered sheens	
3.00			
4.00			
5.00			
6.00		0-17" Black fine SAND, some fine to coarse angular to subrounded low to medium sphericity Gravel, little medium Sand, Silt, wet, soft, strong mothball like odor, heavy staining, heavily NAPL coated grains, blebs of product scattered throughout	533.0 734.2 726.9
7.00			
8.00			
9.00			
10.00			
11.00		0-26" Black fine SAND, some fine to coarse subangular to subrounded low to medium sphericity Gravel, little medium Sand, coarse Sand, Silt, wet, soft, strong mothball like odor, NAPL saturated	101.4 maximum
12.00			
13.00			
14.00			
15.00			

 ARCADIS Design & Consultancy for natural and built assets		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million RCA: recycled concrete aggregate

Client: Con Edison

Well/Boring ID: SB-117

Site Location:
Ossining, NY

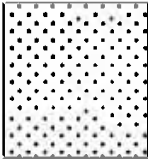
Borehole Depth: 25'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

16.00		0-9" Black fine SAND, some fine to coarse similar Gravel, little Silt, medium Sand, coarse Sand, wet, soft, strong mothball like odor, NAPL saturated	
17.00		9-19" light Brown fine SAND, some Silt, little medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, stiff, slight mothball like odor, till,	
18.00		19-26" Black fine SAND, trace Silt, medium Sand, wet, soft, strong mothball like odor, heavy staining, moderately NAPL coated grains	
19.00			
20.00			
21.00		0-6" Black fine SAND, little Silt, trace medium Sand, wet, soft, strong mothball like odor, moderately NAPL coated grains, heavy staining	131.2
22.00		6-16" brownish Grey SILT, some medium Sand, trace coarse Sand, wet, medium stiff, slight mothball like odor	75.7
23.00		16-19" pulverized Rock, refusal @ 25' bgs	121.2
24.00			57.5
25.00			

 Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million RCA: recycled concrete aggregate

Date Start/Finish: 10/23/2023 / 10/23/2023 Sampling Method: Sonic Rig Type: Hand cleared only Drilling Method: Hand tools		Drilling Company: Cascade Env. Driller's Name: D.Moon Borehole Depth: 2' Descriptions By: A.Gibson		Well/Boring ID: SB-118 Client: Con Edison Location: Ossining, NY	
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-3" very dark Brown fine SAND, some Silt, trace medium Sand, coarse Sand, asphalt debris, organic debris, moist, soft	0.0
1.00		3-24" light Brown fine SAND, little Silt, medium Sand, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, brick debris, concrete debris, soft, moist, rock at bottom of hole, refusal @ 2' bgs	
2.00			

 Design & Consultancy for natural and built assets	Remarks: : Feet : Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/16/2023 / 10/25/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-119	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 25'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-12" dark Brown SILT, some fine Sand, trace medium Sand, coarse Sand, fine to medium subangular low sphericity Gravel, brick debris, Organics, moist, soft	0.0
1.00		12-18" very dark Brown SILT, some fine Sand, trace medium Sand, coarse Sand, fine to coarse cobble sized asphalt debris, slag debris, moist, soft	
2.00		18-24" light Brown fine SAND, some Silt, little medium Sand, coarse Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft	
3.00		24-34" dark Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, soft, moist to wet, wet at 30", slight petroleum like odor	
4.00			
5.00			
6.00		0-10" Black SILT, some fine Sand, trace coarse Sand, fine angular to subrounded low to medium sphericity Gravel, wet, soft, strong mothball like odor, NAPL saturated	384.8
7.00		10-18" Black fine SAND, some fine to coarse angular to subrounded low to medium sphericity Gravel, trace medium Sand, coarse Sand, strong mothball like odor, NAPL saturated, wet, soft	527.6
8.00			618.2
9.00			
10.00			
11.00		0-18" Black fine SAND, some fine to coarse angular to subrounded low to medium sphericity Gravel, medium Sand, little coarse Sand, Silt, Cobbles, wet, soft, strong mothball like odor, NAPL saturated	752.6
12.00			97.4
13.00			853.2
14.00			
15.00			

 Design & Consultancy for natural and built assets		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-119

Site Location:
Ossining, NY

Borehole Depth: 25'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)
16.00		0-4" Black SILT, some fine Sand, trace medium Sand, coarse Sand, wet, soft, moderate mothball like odor, moderate staining, moderately NAPL coated grains	31.1
		4-22" light Brown fine SAND, little medium Sand, trace Silt, wet, soft, moderate mothball like odor	734.3
		22-37" Grey fine SAND, little medium Sand, trace Silt, wet, soft, moderate mothball like odor, slight staining	73.7
17.00			141.1
18.00			130.6
19.00			167.9
20.00			
21.00		0-12" Grey very fine SAND, little Silt, trace medium subangular to subrounded low to medium sphericity Gravel, moist, soft, slight mothball like odor, slight staining	1.5
		12-36" greyish light Brown fine SAND, little Silt, trace fine subangular to subrounded low to medium sphericity Gravel, moist, stiff	2.1
		36-44" Grey SILT, some fine Sand, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, stiff, moist, slight mothball like odor, till, refusal @ 25' bgs	3.0
22.00			4.8
23.00			24.2
24.00			13.9
25.00			26.2
			28.4

Date Start/Finish:	10/20/2023 / 10/25/2023	Drilling Company:	Cascade Env.	Well/Boring ID:	SB-120
Sampling Method:	Sonic	Driller's Name:	D.Moon	Client:	Con Edison
Rig Type:	Fraste XL Max	Borehole Depth:	25'	Location:	Ossining, NY
Drilling Method:	Sonic Sleeves, 5' Runs	Descriptions By:	A.Gibson		
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-7" Asphalt	0.0
1.00		7-60" Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, brick debris, moist, soft	
2.00			
3.00			
4.00			
5.00		0-6" Black fine SAND, some Silt, trace medium Sand, coarse Sand, moist, soft, brick debris, heavy staining	0.0
6.00		6-10" light Brown fine SAND, trace Silt, medium Sand, coarse Sand, moist, soft	3.6
7.00		10-22" Brown fine SAND, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, soft	1.7
8.00			1.1
9.00			
10.00			
11.00		0-7" brownish Grey, fine SAND, some Silt, trace medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, moist, stiff	21.6
12.00		7-16" Black SILT, some fine Sand, trace medium Sand, Organics, moist, soft, strong mothball like odor, heavy staining	125.4
13.00		16-29" Black fine SAND, little Silt, trace medium Sand, coarse Sand, fine subangular to subrounded low to medium sphericity Gravel, moist to wet, soft, strong mothball like odor, moderately NAPL coated grains	201.5
14.00		29-57" Black fine SAND, little Silt, trace medium Sand, moist to wet, soft, heavily NAPL coated grains, strong mothball like odor	159.3
15.00			501.3
			375.1
			527.1
			389.5
			612.4
			635.8

 ARCADIS Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Client: Con Edison

Well/Boring ID: SB-120

Site Location:
Ossining, NY

Borehole Depth: 25'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)

15.00		0-15" Black SILT, some fine Sand, little Clay, medium Sand, coarse Sand, trace fine subangular to subrounded low to medium sphericity Gravel, wet, soft, Organics, strong mothball like odor, lightly NAPL coated grains	287.5 233.2 153.9
17.00		15-29" Black fine SAND, some Silt, little fine to medium similar Gravel, trace medium Sand, coarse Sand, wet, soft, strong mothball like odor, lightly NAPL coated grains	197.4 117.4
18.00		29-38" Black fine SAND, some medium Sand, little coarse Sand, wet, soft, strong mothball like odor, moderately NAPL coated grains	146.1 193.7
19.00			
20.00			
21.00		0-13" Black fine SAND, some medium Sand, little coarse Sand, Silt, wet, soft, moderate mothball like odor, heavy staining, scattered NAPL blebs	100.9 120.2
22.00		13-18" Black fine SAND, little Silt, trace medium Sand, wet, soft, moderate mothball like odor	62.2
23.00		18-24" Black SILT, little fine Sand, Organics, soft, moist, moderate mothball like odor, heavy staining	16.6
24.00		24-26" Grey fine SAND, trace Silt, wet, soft, slight mothball like odor	7.4
25.00		26-36" dark brownish Grey heavily weathered Rock, refusal @ 25' bgs	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million

Date Start/Finish: 10/23/2023 / 10/25/2023		Drilling Company: Cascade Env.		Well/Boring ID: SB-121	
Sampling Method: Sonic		Driller's Name: D.Moon		Client: Con Edison	
Rig Type: Fraste XL Max		Borehole Depth: 29'		Location: Ossining, NY	
Drilling Method: Sonic Sleeves, 5' Runs		Descriptions By: A.Gibson			
DEPTH (feet)	Geologic Column	Stratigraphic Description			PID (ppm)

0.00		0-6" steel reinforced Concrete 6-12" 2-3" diameter RCA	0.0
1.00		12-60" greyish Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, brick debris, moist, soft	
2.00			
3.00			
4.00			
5.00		0-4" Brown fine SAND, some Silt, trace fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft	0.0
6.00		4-21" light Brown fine SAND, some Silt, little medium Sand, trace coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, dry soft	0.0
7.00			0.0
8.00			
9.00			
10.00		0-8" light Brown fine SAND, some Silt, trace medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, moist, soft	0.9
11.00		8-15" light Brown fine SAND, some Silt, trace medium Sand, wet, soft	0.7
12.00		15-30" very dark Grey fine SAND, little Silt, trace medium Sand, coarse Sand, wet, soft, moderate staining	62.0
13.00		30-37" Black fine SAND, little Silt, wet, soft, heavy staining, slightly NAPL coated grains, moderate mothball like odor	162.8
14.00			
15.00			

 ARCADIS Design & Consultancy for natural and built assets		Remarks: ': Feet ": Inches bgs: below ground surface ppm: parts per million RCA: recycled concrete aggregate

Client: Con Edison

Well/Boring ID: SB-121

Site Location:
Ossining, NY

Borehole Depth: 29'

DEPTH (feet)	Geologic Column	Stratigraphic Description	PID (ppm)
16.00		0-12" Black fine SAND, little Silt, trace medium Sand, coarse Sand, wet, soft, moderate mothball like odor, heavy staining	191.5
		12-18" Black fine SAND, some medium Sand, little coarse Sand, Silt, fine subangular to subrounded low to medium sphericity Gravel, wet, soft, heavy staining, moderately NAPL coated grains, strong mothball like odor	257.7
		18-24" dark Brown ORGANICS, some Silt, moist, soft	230.2
17.00		24-36" Black fine SAND, little Silt, medium Sand, coarse Sand, fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate mothball like odor, heavy staining	104.8
			86.1
			81.2
18.00			
19.00			
20.00			
21.00		0-16" very dark Grey fine SAND, little Silt, medium sand, coarse Sand, trace fine to medium subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate mothball like odor, moderate staining	10.5
		16-18" Brown SILT and ORGANICS, wet, soft	55.7
		18-25" dark Grey fine SAND, little Silt, medium Sand, coarse Sand, fine to coarse subangular to subrounded low to medium sphericity Gravel, wet, soft, moderate mothball like odor, moderate staining	28.3
22.00		25-42" greyish Brown fine SAND, little Silt, trace medium Sand, wet, soft, slight mothball like odor, slight staining	40.2
			59.3
			155.1
			49.3
23.00			
24.00			
25.00		0-25" greyish Brown fine SAND, little Silt, trace medium Sand, wet, soft, slight mothball like odor, light staining	1.9
26.00		25-39" pulverized weathered Rock, refusal @ 29' bgs	1.3
			1.2
			1.2
			1.1
27.00			1.2
			1.2
28.00			
29.00			



Remarks: ' : Feet
 " : Inches
 bgs: below ground surface
 ppm: parts per million
 RCA: recycled concrete aggregate

Appendix B

Test Pit Logs

Test Pit Log

Date 10/25/2023
Trench/Pit GTP-01 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 1345 Pit Completed 1515

Total Depth Excavated: 6 ft Pit Dimension 2.5 ft by 6 ft

Contractor: ADT

Investigated By: Maeve Tucker

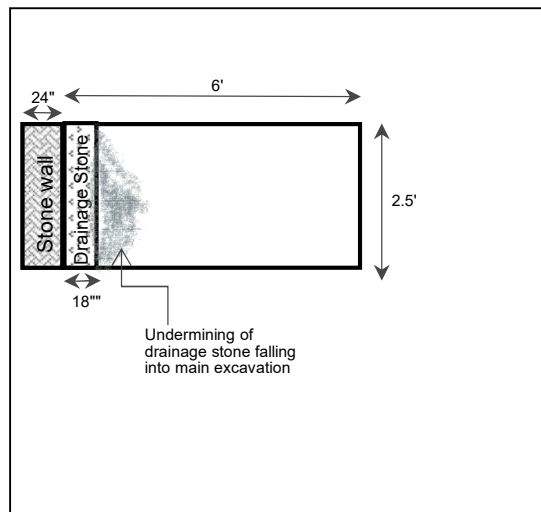
Notes

Observed construction matched provided details of wall construction.

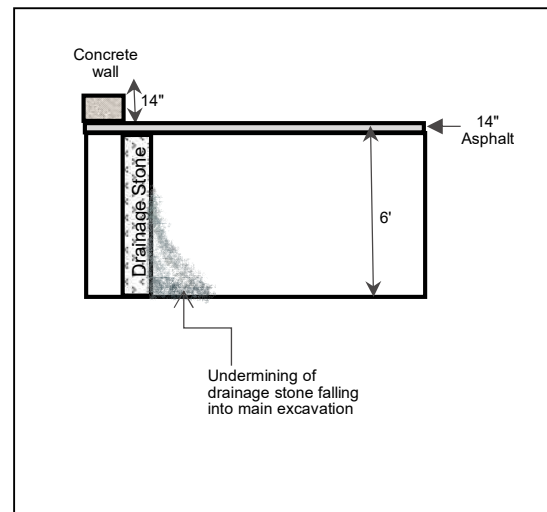
Photo	Photo Description
14	Location of pit viewed from across the channel
15	Removal of black top
16	Excavated fill material
17	Drainage Stone
18	Undermining of drainage stone

From (ft. bgs)	To (ft. bgs)	Pit Description
Surface		
0.0	1.2	Asphalt layer about 14" thick.
1.2	6.0	Material: FILL; fine to medium sand, some fine to coarse gravel, subangular, brown, no odor, moist Clean washed drainage stone from wall face to about 18" began undermining during excavation. Test pit abandoned at 6' deep to prevent further undermining of drainage stone.

Plan View



Profile view



Test Pit Log

Date 10/25/2023
Trench/Pit GTP-02 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 0845 Pit Completed 1000

Total Depth Excavated: 3 ft Pit Dimension 2.5 ft by 6.5 ft

Contractor: ADT

Investigated By: Maeve Tucker

Notes

Photo

Photo Description

1

Location of pit, removal of black top

2

Concrete footing extending 36" from inner wall face

Wall footer not identified. Test pit abandoned due to obstructions (utility pipes)

3

Completed pit with exposed utility lines

4

Location of pit viewed from across the channel

From (ft. bgs) To (ft. bgs)

Pit Description

Surface

0.0

0.5

Asphalt layer about 6 inches thick.

0.5

1.3

At ~0.5' bgs, concrete encountered extending 3' from inner wall face.
Excavation continued at edge of concrete.

Material: FILL; fine to medium sand, little silt, some organics (roots), dark brown to black, no odor, moist, some construction debris

1.3

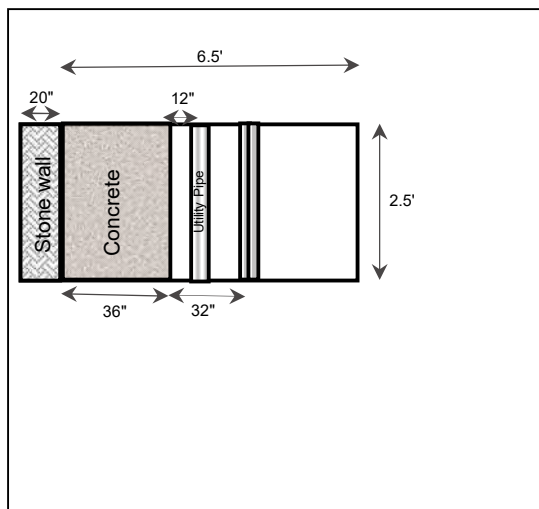
3.0

At ~16" bgs, 4" diameter pipe encountered about 1' from concrete (~4' from inner wall face).

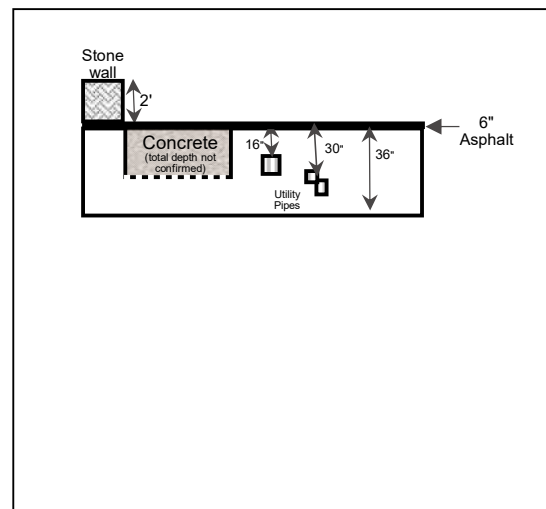
At ~30" bgs, two smaller diameter pipes encountered about 32" from concrete (~5.5' from inner wall face).

Excavation stopped at 3' bgs due to utilities.

Plan View



Profile view



Test Pit Log

Date 10/25/2023
Trench/Pit GTP-03 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 1200 Pit Completed 1300

Total Depth Excavated: 3.5 ft Pit Dimension 5 ft by 5 ft

Contractor: ADT

Investigated By: Maeve Tucker

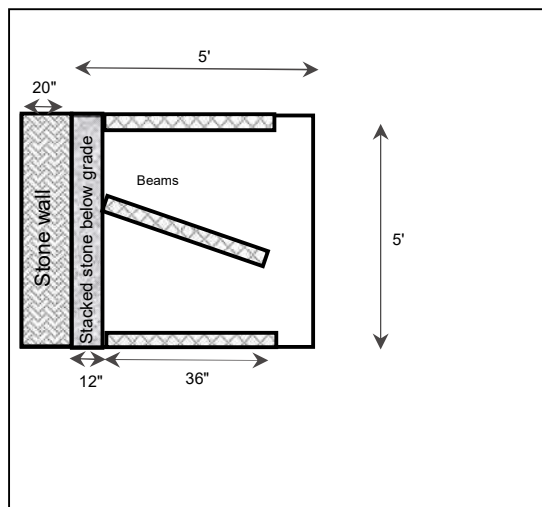
Notes

Steal beams at about 30" bgs . Test pit abandoned due to obstructions

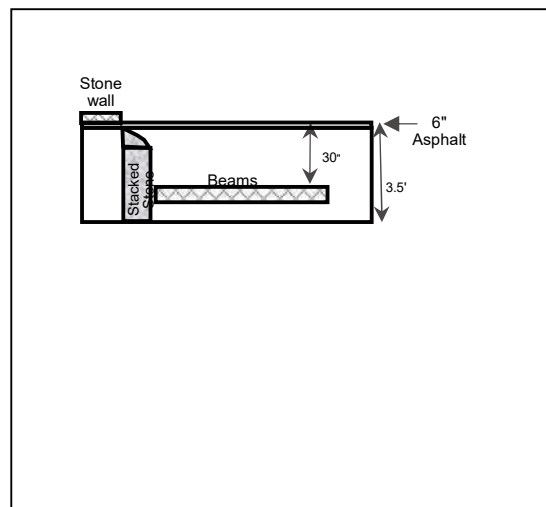
Photo	Photo Description
9	Excavation of soil
10	Southern I beam in hole with various debris
11	Southern I beam and middle crooked I beam
12	Northern I beam
13	Location of pit viewed from across the channel

From (ft. bgs)	To (ft. bgs)	Pit Description
		Surface
0.0	0.5	Asphalt layer about 6 inches thick.
0.5	2.5	Stacked stones extend from inner above grade wall face for ~1' Material: FILL; fine to medium sand, little silt, little organics (roots), some cobbles, subangular, dark brown to black, no odor, moist, some construction debris (concrete, brick, metal scrap, wood)
2.5	3.0	At ~30" bgs, 3 steel I beams (~8" wide) extending perpendicular from wall At ~4' from inner wall face (~3' from subgrade stacked stones). Approximately 60" between the two outside beams. Middle beam was crooked and loose, could have been scrap. Beam on the ends were sturdy and perpendicular to wall.

Plan View



Profile view



Test Pit Log

Date 10/25/2023
Trench/Pit GTP-04 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 1045 Pit Completed 1145

Total Depth Excavated: 4 ft Pit Dimension 2.5 ft by 7 ft

Contractor: ADT

Investigated By: Maeve Tucker

Notes

Pit located at a solid concrete patched portion of existing gravity wall.

Test pit abandoned due to obstructions (possible historic structure)

Photo Photo Description

5 Location of pit viewed from across the channel

6 Excavation of soil

7 Pipe end in sidewall

8 Hard bottom of pit

From (ft. bgs) To (ft. bgs) Pit Description

Surface

0.0

2.6

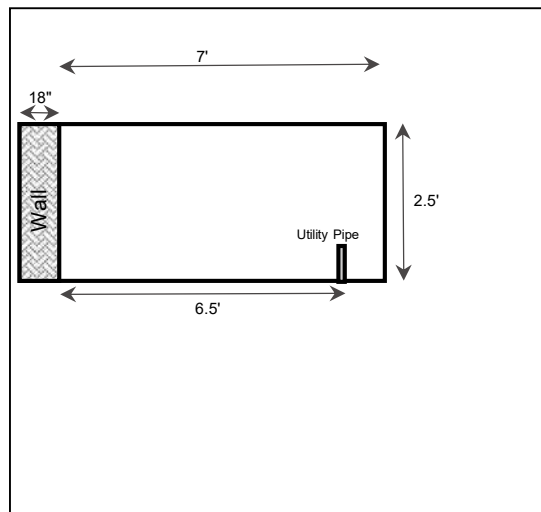
Medium to fine sand, little silt, with organics (roots, small to 2" diam.), some debris (brick, white painted material, pipe pieces), brown, organic odor, moist

2.6

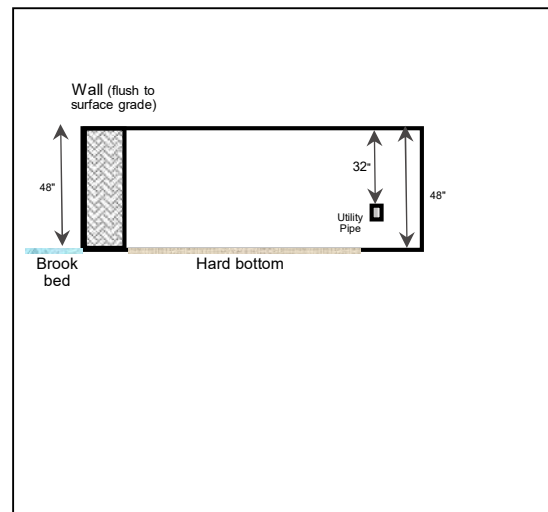
4.0

At ~32" bgs, 6.5' from inner wall face, portion of 2" pipe uncovered in test pit sidewall, running parallel to wall.
At ~4' bgs, hard bottom encountered in pit of white painted material, possibly historic structure. Brook bed also measured at ~4' bgs.

Plan View



Profile view



Test Pit Log

Date 10/26/2023
Trench/Pit GTP-06 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 1100 Pit Completed 1245

Total Depth Excavated: 7 ft Pit Dimension 3 ft by 6 ft

Contractor: ADT

Investigated By: Maeve Tucker

Notes

Test pit located at the old wall, about 1 ft past the end of the new wall.

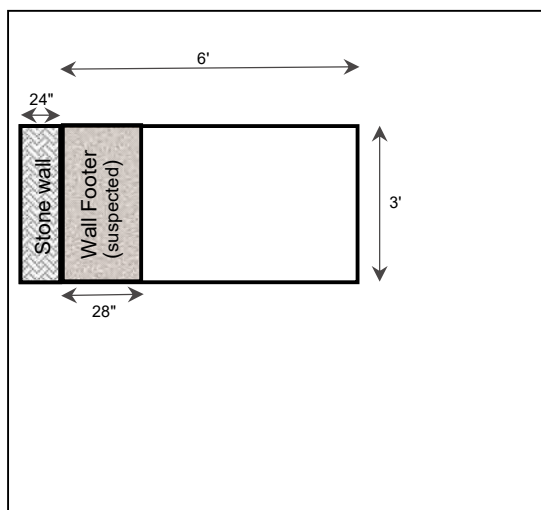
Water encountered at 7'. Suspected wall footer tagged with air knife.

Photo Photo Description

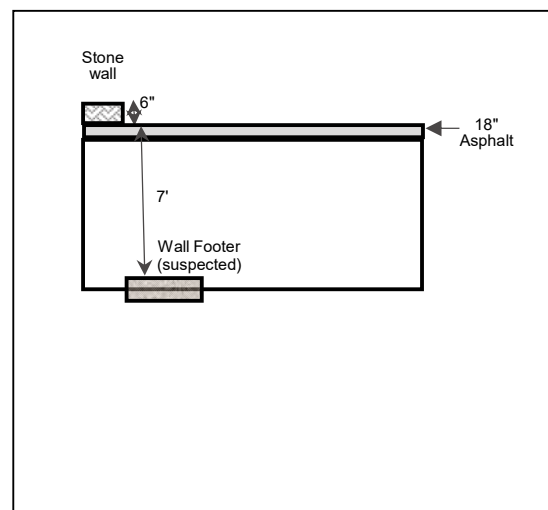
19	Location of pit viewed from across the channel
20	Removal of asphalt
21	Asphalt and fill layer
22	Air knife investigation
23	Air knife investigation
24	Completed depth, wet

From (ft. bgs)	To (ft. bgs)	Pit Description
		Surface
0.0	1.5	Asphalt layer about 18" thick.
1.5	6.5	Material: FILL; fine to medium sand, some fine to coarse gravel, subangular, brown, no odor, moist
6.5	7.0	Excavator max depth reached at about 6.5' bgs closest to wall. Air knife identified water at about 7' bgs. Air knife tagged something hard at 7' bgs (suspected wall footer), extending 28" in from inner wall face.

Plan View



Profile view



Test Pit Log

Date 10/26/2023

Trench/Pit GTP-07 Project/No. 30197894 - Ossining OU-1 PDI Page 1 of 1

Site Location Ossining, NY Wind/Temp Mid 60s, 5 MPH SW Pit Started 1305 Pit Completed

Total Depth Excavated: 5 ft Pit Dimension 2.5 ft by 6 ft

Contractor: ADT

Investigated By: Maeve Tucker

Notes

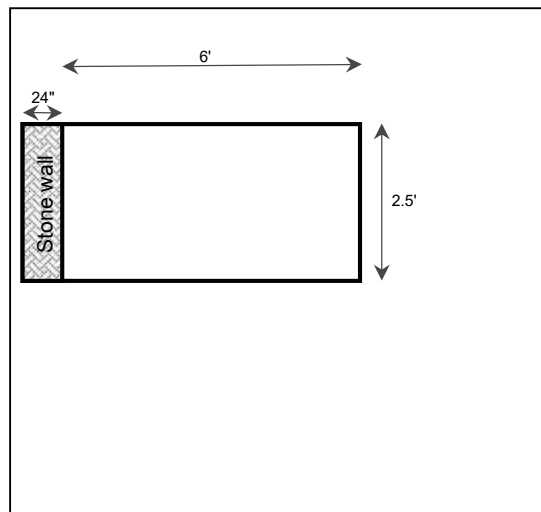
Water encountered at 5'. No footer encountered.

Photo Photo Description

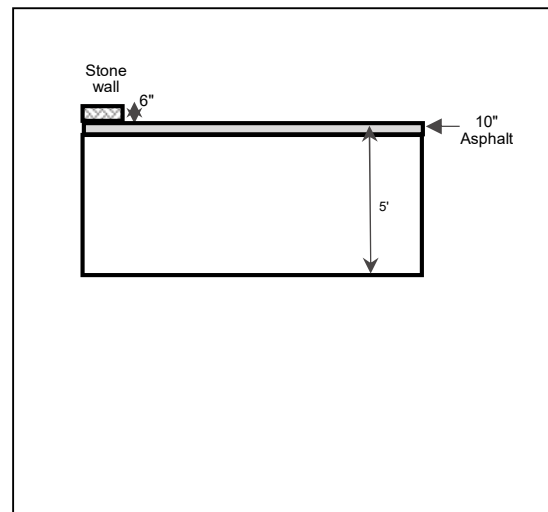
25	Excavation of fill
26	Interior wall face
27	Completed depth, wet
28	Location of pit viewed from across the channel

From (ft. bgs) To (ft. bgs)		Pit Description
Surface		
0.0	0.8	Asphalt layer about 10 inches thick.
0.8	5.0	Material: FILL; fine to medium sand, little silt, little organics (roots), some cobbles, subangular, dark brown to black, no odor, moist, some construction debris (concrete, brick, slag)
5.0	6.5	Water encountered at ~5' bgs (matches approximate brook level on other side of wall). Air knife used to explore to 6.5' along wall face. No footer encountered.

Plan View

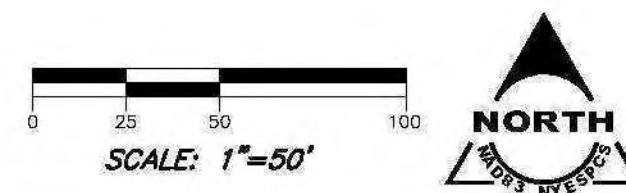
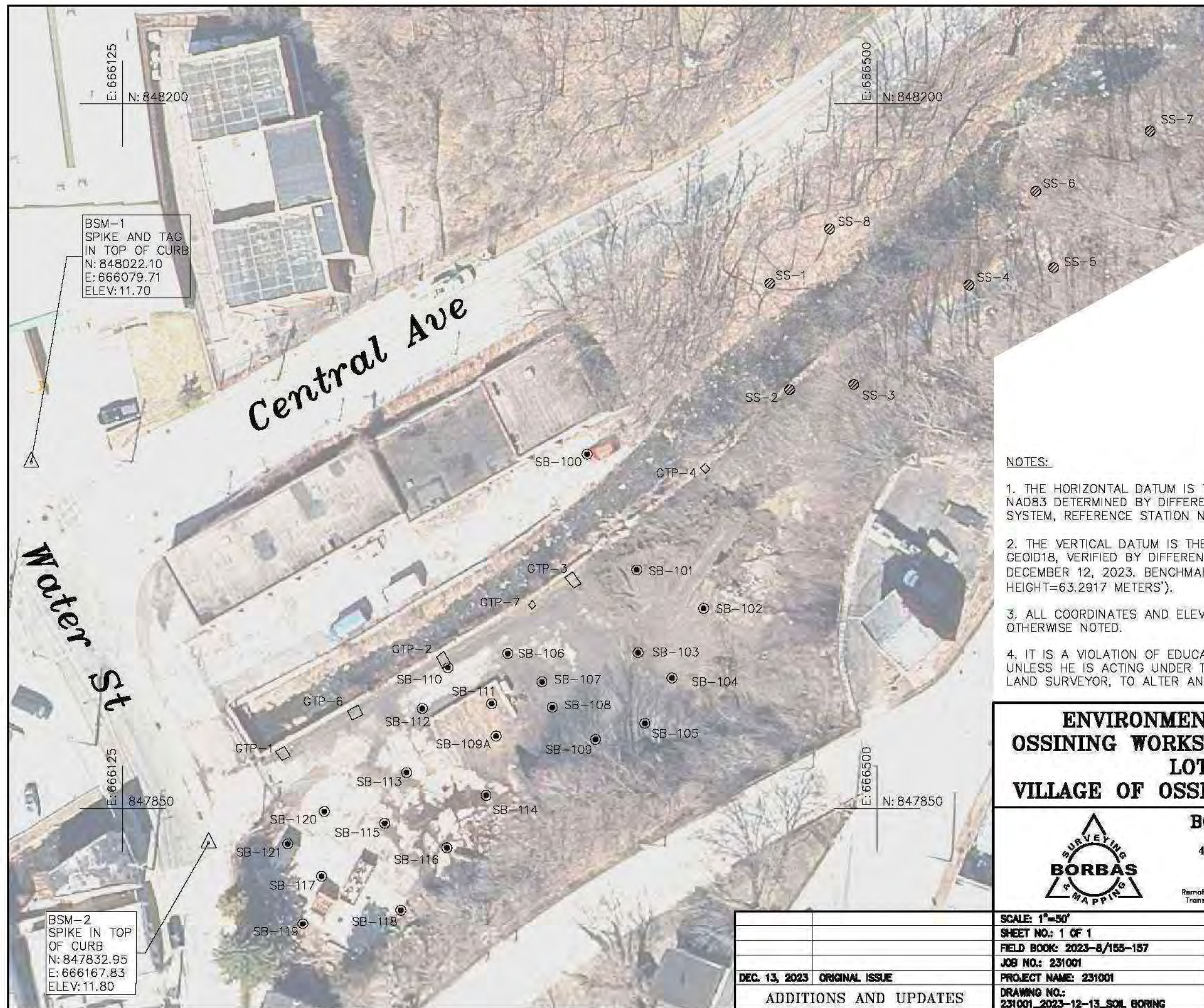


Profile view



Appendix C

Borbas Surveying & Mapping, LLC Survey Map



LEGEND

- SOIL SAMPLE
- SOIL BORING
- GTP-X GROUND TEST PITS

NOTES:

1. THE HORIZONTAL DATUM IS THE NEW YORK EAST STATE PLANE COORDINATE SYSTEM NAD83 DETERMINED BY DIFFERENTIAL GPS ON DECEMBER 12, 2023 USING THE NGS CORS SYSTEM, REFERENCE STATION NYVH.
2. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) GEOID18, VERIFIED BY DIFFERENTIAL GPS OBSERVATIONS FROM THE NGS CORS NETWORK ON DECEMBER 12, 2023. BENCHMARK: REFERENCE STATION NYVH (ORTHOMETRIC HEIGHT=63.2917 METERS').
3. ALL COORDINATES AND ELEVATIONS SHOWN HEREON ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
4. IT IS A VIOLATION OF EDUCATION LAW ARTICLE 145 SECTION 7209:2 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY.

ENVIRONMENTAL SURVEY AT THE FORMER OSSINING WORKS MANUFACTURED GAS PLANT SITE LOT 27 & 28, BLOCK 6 VILLAGE OF OSSINING, WESTCHESTER COUNTY, NY



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402 MAIN STREET, BOONTON, NEW JERSEY 07005
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JOHN D. BEATTIE

NEW YORK PROFESSIONAL LAND SURVEYOR 050958-1

Date: **DECEMBER 13, 2023**

SCALE: 1"=50'

SHEET NO.: 1 OF 1

FIELD BOOK: 2023-8/155-157

JOB NO.: 231001

PROJECT NAME: 231001

DRAWING NO.:
231001_2023-12-13_SOIL BORING

DEC. 13, 2023 ORIGINAL ISSUE

ADDITIONS AND UPDATES

Appendix D

CAMP Data

Daily Log Camp Monitor

Project Con Edison Ossining Project No. _____ Page of

Site Location Ossining

Prepared By Tom Roloff, Andrew Gibson Weather: 50 Sunny, 10/16/23

Task: Quarterly Monitoring Event

WDIR	PEH	Date/Time	Description of Activities
0.0	935	UP wind: PID (0.2 ppm) Dust (0.001 mg/m ³)	Downwind PID (0.0 ppm) Dust (0.008 mg/m ³)
0.0	950	UP PID (0.3 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.008 mg/m ³)
0.0	1005	UP PID (0.4 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.007 mg/m ³)
0.0	1020	UP PID (0.3 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.007 mg/m ³)
0.0	1035	UP PID (0.5 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.007 mg/m ³)
0.0	1050	UP PID (0.6 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.007 mg/m ³)
0.0	1105	UP PID (0.7 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.004 mg/m ³)
0.0	1120	UP PID (0.7 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.009 mg/m ³)
0.0	1135	UP PID (0.0 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.014 mg/m ³)
0.0	1150	UP PID (0.0 ppm) Dust (0.000 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1205	UP PID (0.1 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1220	UP PID (0.1 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1235	UP PID (0.0 ppm) Dust (0.002 mg/m ³)	Down PID (0.0 ppm) Dust (0.012 mg/m ³)
0.0	1250	UP PID (0.0 ppm) Dust (0.002 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1305	UP PID (0.0 ppm) Dust (0.001 mg/m ³)	Down PID (0.0 ppm) Dust (0.012 mg/m ³)
0.0	1320	UP PID (0.1 ppm) Dust (0.000 mg/m ³)	Down PID (0.0 ppm) Dust (0.010 mg/m ³)
0.0	1335	UP PID (0.1 ppm) Dust (0.000 mg/m ³)	Down PID (0.0 ppm) Dust (0.010 mg/m ³)
0.0	1350	UP PID (0.2 ppm) Dust (0.000 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1405	UP PID (0.2 ppm) Dust (0.002 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
0.0	1420	UP PID (0.3 ppm) Dust (0.002 mg/m ³)	Down PID (0.0 ppm) Dust (0.011 mg/m ³)
	1430	Stopped readings for today	

Air Monitoring Documentation Form

ARCADIS

PID Model: Mini Rae 3000

Monitor Frequency: 15 min, 10/17/23

LEL/O₂ Model: —

CIT Model: —

Dust Mon. Model: Dust Trak II

15 min, 10/17/23
Tom Roker

Date	Time	Air Monitoring Results		LEL (% LEL)	CIT Dust (ppm)	Dusts (mg/m ³)	Location
		PID (units)	PID (%)				
10/17/23	810	0.1	0.0		0.016	0.013	0.0
	825	0.2	0.0		0.013	0.012	0.0
	840	0.2	0.0		0.011	0.012	0.0
	905	0.3	0.0		0.011	0.009	0.1
	920	0.3	0.0		0.006	0.009	0.1
	935	0.3	0.0		0.005	0.008	0.1
	950	0.4	0.0		0.005	0.008	0.1
	1009	0.5	0.0		0.004	0.006	0.1
	1020	0.5	0.0		0.002	0.007	0.1
	1035	0.5	0.0		0.002	0.007	0.1
	1050	0.5	0.0		0.002	0.007	0.1
	1103	0.5	0.0		0.003	0.007	0.1
	1120	0.5	0.0		0.003	0.008	0.1
	1135	0.5	0.0		0.003	0.008	0.1
	1150	0.5	0.0		0.002	0.008	0.1
	1208	0.5	0.0		0.003	0.010	0.1
	1220	0.5	0.0		0.002	0.008	0.1
	1235	0.6	0.0		0.002	0.008	0.1
	1250	0.6	0.0		0.003	0.008	0.1
	1305	0.6	0.0		0.003	0.008	0.1
	1320	0.6	0.0		0.001	0.007	0.1
	1335	0.6	0.0		0.002	0.007	0.1
	1350	0.5	0.0		0.001	0.009	0.1
	1409	0.6	0.0		0.000	0.007	0.1
	1420	0.7	0.0		0.001	0.007	0.1
	1435	0.7	0.0		0.001	0.008	0.1
	1450	0.7	0.0		0.000	0.008	0.1

CIT = Colorimetric Indicator Tube

LEL = Lower Explosive Limit

mg/m³ = Milligram per cubic meter

O₂ = Oxygen

ppm = Part per million

% = Percent

PID = Photoionization Detector

EOD 1505 0.7 0.0
(Post Work)

0.000 0.007 0.1

Zero (9)
UPwind
PID

Air Monitoring Documentation Form



PID Model: mini Rae 3000

Monitor Frequency: 15 min 10/18/23

LEL/O₂ Model: —

Jon Roller

CIT Model: —

Dust Mon. Model: Dust Trak II

Date	Time	Air Monitoring Results						Location worksplace ID
		UPwind PID (units)	Downwind PED (%)	TEL (%LEL)	UPwind DUST (ppm)	Downwind Dusts (mg/m ³)		
10/18/23	920	0.1	0.0		0.011	0.012	0.1	
	935	0.2	0.0		0.016	0.016	0.1	
	950	0.2	0.0		0.009	0.012	0.1	
	1005	0.2	0.0		0.012	0.012	0.1	
	1020	0.3	0.0		0.009	0.011	0.1	
	1035	0.1	0.0		0.008	0.011	0.1	
	1050	0.4	0.0		0.007	0.011	0.1	
	1105	0.4	0.0		0.006	0.012	0.1	
	1120	0.4	0.0		0.005	0.012	0.1	
	1135	0.5	0.0		0.005	0.011	0.1	
	1150	0.5	0.0		0.005	0.011	0.1	
	1205	0.5	0.0		0.005	0.013	0.1	
	1220	0.9	0.0		0.005	0.013	0.1	
	1235	0.6	0.0		0.004	0.013	0.1	
	1250	0.6	0.0		0.004	0.013	0.1	
	1305	0.6	0.0		0.006	0.011	0.1	
	1320	0.7	0.0		0.007	0.011	0.1	
	1335	0.8	0.0		0.004	0.011	0.1	
	1350	0.9	0.0		0.002	0.010	0.1	
	1405	0.1	0.0		0.002	0.012	0.0	
	1420	0.0	0.1		0.002	0.010	0.0	
	1435	0.2	0.0		0.003	0.013	0.1	
	1450	0.0	0.0		0.002	0.011	0.0	
	1505	0.0	0.0		0.004	0.011	0.0	
	1520	0.1	0.0		0.006	0.009		

CIT = Colorimetric Indicator Tube
LEL = Lower Explosive Limit
mg/m³ = Milligram per cubic meter
O₂ = Oxygen

ppm = Part per million
% = Percent
PID = Photoionization Detector

Fresh Air Cal
UPwind 920

ARCADIS

Monitor Frequency: 15 mls 10/18/23

Dust Mon. Model: Dusttrak II[illegible]

ppm = Part per million
% = Percent
PID = Photoionization Detector

Air Monitoring Documentation Form



PID Model: mini Rae 3000

Monitor Frequency: 15min

10/19/23

LEL/O₂ Model: _____

Tom Rehr

CIT Model: _____

Dust Mon. Model: Dust Trak II

		Air Monitoring Results					
		upwind	downwind	upwind	downwind	work space	
Date	Time	PID (units)	PPM (%)	LEL (% LEL)	CIT Dust (ppm)	Dusts (mg/m ³)	Location PID
10/19/23	730	0.2	0.0		0.049	0.054	0.0
	745	0.4	0.1		0.042	0.049	0.1
	800	0.6	0.1		0.037	0.044	0.0
	815	0.6	0.1		0.041	0.048	0.0
	830	0.7	0.2		0.043	0.055	0.0
	845	0.8	0.2		0.045	0.060	0.0
	900	0.1	0.2		0.047	0.054	0.0
	915	0.2	0.2		0.041	0.046	0.0
	930	0.3	0.2		0.036	0.043	0.0
	945	0.1	0.2		0.039	0.039	0.0
	1000	0.1	0.2		0.037	0.037	0.0
	1015	0.2	0.2		0.037	0.039	0.0
	1030	0.4	0.2		0.024	0.027	0.0
	1045	0.5	0.2		0.026	0.031	0.0
	1100	0.6	0.2		0.016	0.023	0.0
	1115	0.6	0.3		0.017	0.024	0.0
	1130	0.6	0.3		0.013	0.023	0.0
	1145	0.6	0.3		0.044	0.024	0.0
	1200	0.7	0.3		0.016	0.024	0.0
	1215	0.7	0.3		0.011	0.025	0.0
	1230	0.0	0.0		0.013	0.024	0.0
	1245	0.0	0.0		0.011	0.026	0.0
	1300	0.0	0.0		0.013	0.026	0.0
	1315	0.0	0.0		0.013	0.029	0.0
	1330	0.0	0.0		0.014	0.029	0.0
	1345	0.0	0.0		0.011	0.024	0.0
	1400	0.0	0.0		0.011	0.023	0.0

CIT = Colorimetric Indicator Tube

LEL = Lower Explosive Limit

mg/m³ = Milligram per cubic meter

O₂ = Oxygen

ppm = Part per million

% = Percent

PID = Photoionization Detector

1415 0.0 0.0

1430 0.0 0.0

1445 0.0 0.0

1500 0.0 0.0

0.009 0.020 0.0

0.007 0.018

0.005 0.0020

Air Monitoring Documentation Form

ARCADIS

PID Model: MiniPac 300

Monitor Frequency: 15 min

10/19/23 - 6/10/23
Tom Keller

LEL/O₂ Model: _____

CIT Model: _____

Dust Mon. Model: Dust Trak II

Page 2

UPWIND Air Monitoring Results UPWIND DOWNWIND

Date	Time	PID (units)	PID (%)	LEL (% LEL)	CIT (ppm)	Dusts (mg/m ³)	Location work
10/19/23	1515	0.0	0.0		0.007	0.019	0.0
10/20/23	810	0.0	0.2		0.004	0.007	0.0
	825	0.1	0.3		0.004	0.006	0.0
	840	0.2	0.3		0.016	0.017	0.0
	855	0.2	0.3		0.016	0.013	0.0
	910	0.3	0.2		0.017	0.014	0.0
	925	0.0	0.0				
	940	STOP WORK			(RAIN)		
	955						
	1010	-	-	-	-	-	-
	1025	0.0	0.0		0.008	0.013	0.0
	1040	0.0	0.0		0.011	0.012	0.0
	1055	0.1	0.2		0.007	0.014	0.1
	1110	0.1	0.3		0.009	0.017	0.0
	1125	0.1	0.2		0.010	0.013	0.0
	1140						
	1155						
	1210	STOP WORK			(RAIN)		
	1225						
	1240						
	1255						
	1310	0.1	0.4		0.004	0.009	0.0
	1325	0.0	0.4		0.015	0.014	0.0
	1340						
	1355	0.0	0.4		0.014	0.015	0.0

CIT = Colorimetric Indicator Tube
 LEL = Lower Explosive Limit
 mg/m³ = Milligram per cubic meter
 O₂ = Oxygen

ppm = Part per million
 % = Percent
 PID = Photoionization Detector

Air Monitoring Documentation Form



PID Model: MNI Pyle 3000

Monitor Frequency: 15 min

10/23/23

LEL/O₂ Model: _____

Jim Keller

CIT Model: _____

Dust Mon. Model: Dust Trak II

up

Down

Air Monitoring Results

up

Down

Work

Date	Time	PID (units)	O ₂ (%)	LEL (% LEL)	CIT (ppm)	Dusts (mg/m ³)	Location
10/23/23	815	0.2	0.0		0.008	0.002	0.1
	830	0.1	0.0		0.002	0.002	0.3
	845	0.2	0.1		0.002	0.005	0.3
	850	0.2	0.1		0.002	0.003	0.3
	915	0.3	0.1		0.002	0.002	0.4
	930	0.3	0.1		0.002	0.002	0.4
	945	0.3	0.2		0.001	0.002	0.4
	1000	0.3	0.2		0.001	0.002	0.4
	1015	0.4	0.5		0.001	0.002	0.5
	1030	0.4	0.3		0.000	0.002	0.0
	1045	0.4	0.2		0.001	0.003	0.0
	1100	0.4	0.3		0.001	0.003	0.0
	1115	0.4	0.2		0.001	0.003	0.0
	1130	0.4	0.3		0.001	0.004	0.0
	1145	0.4	0.3		0.001	0.004	0.0
	1200	0.4	0.3		0.000	0.008	0.0
	1215	0.4	0.1		0.000	0.004	0.0
	1300	0.4	0.3		0.000	0.001	0.0
	1315	0.4	0.3		0.002	0.004	0.0
	1330	0.4	0.2		0.001	0.004	0.0
	1345	0.4	0.2		0.000	0.004	0.0
	1415	0.4	0.2		0.003	0.005	0.0
	1430	0.4	0.2		0.002	0.004	0.0
	1445	0.4	0.2		0.001	0.004	0.0
	1500	0.4	0.3		0.001	0.004	0.0

fresh air work

CIT = Colorimetric Indicator Tube
LEL = Lower Explosive Limit
mg/m³ = Milligram per cubic meter
O₂ = Oxygen

ppm = Part per million
% = Percent
PID = Photoionization Detector

ARCADIS

Dust Mon. Model: Dust + H₂ + He

15 min

10/24/23

Tom Rohrer

VP

Air Monitoring Results

22

Amo

Wof / Space

10/10/10

ppm = Part per million
% = Percent
PID = Photoionization Detector

Air Monitoring Documentation Form

ARCADIS

PID Model:

mini Rqc3000

Monitor Frequency:

15 min 10/25/03

LEL/O₂ Model:

CIT Model:

Dust Mon. Model:

Dust+H₂S II

Air Monitoring Results							
		UP	Down	UP	Down	Worst	
Date	Time	PID (units)	O ₂ (%)	LEL (% LEL)	CIT (ppm)	Dusts (mg/m ³)	Location
10/25/03	800	0.0	0.1		0.037	0.032	0.4
	815	0.0	0.1		0.033	0.034	0.6
	830	0.1	0.1		0.035	0.036	0.7
	845	0.2	0.1		0.036	0.034	0.3
	900	0.1	0.2		0.036	0.042	0.6
	915	0.1	0.2		0.033	0.036	0.9
	930	0.1	0.2		0.029	0.038	0.4
	945	0.1	0.2		0.026	0.029	0.1
	1000	0.1	0.2		0.030	0.031	0.7
	1045	0.1	0.3		0.027	0.029	0.8
	1030	0.0	0.2		0.024	0.038	0.8
	1045	0.1	0.2		0.026	0.031	0.6
	1100	0.1	0.1		0.026	0.030	0.8
	1115	0.1	0.1		0.025	0.029	0.5
	1130	0.1	0.1		0.025	0.027	0.7
	1145	0.2	0.3		0.022	0.025	0.8
	1200	0.2	0.3		0.020	0.034	0.7
	1215	0.2	0.2		0.018	0.026	0.8
	1230	0.2	0.1		0.017	0.025	0.3
	1245	0.2	0.3		0.015	0.020	0.5
	1300	0.1	0.1		0.014	0.022	0.8
	1315	0.1	0.2		0.016	0.020	0.7
	1330	0.2	0.4		0.017	0.021	0.8
	1345	0.3	0.4		0.014	0.023	0.7
	1400	0.1	0.2		0.012	0.024	0.8

CIT = Colorimetric Indicator Tube
LEL = Lower Explosive Limit
mg/m³ = Milligram per cubic meter
O₂ = Oxygen

ppm = Part per million
% = Percent
PID = Photoionization Detector

Air Monitoring Documentation Form



PID Model:

mini Rae3000

Monitor Frequency:

15min

LEL/O₂ Model:

CIT Model:

Dust Mon. Model:

DUST FC4A

Air Monitoring Results

Date	Time	PID (units)	O ₂ (%)	LEL (% LEL)	CIT (ppm)	Dusts (mg/m ³)	Location
10/26/23	800	0.1	0.1		0.078	0.020	
	815	0.1	0.1		0.032	0.034	
	830	0.2	0.1		0.031	0.036	
	845	0.2	0.3		0.028	0.027	
	900	0.3	0.3		0.036	0.037	
	915	0.4	0.4		0.041	0.030	
	930	0.2	0.3		0.041	0.037	
	945	0.2	0.4		0.040	0.042	
	1000	0.3	0.3		0.041	0.043	
	1015	0.3	0.3		0.040	0.043	
	1030	0.3	0.2		0.047	0.045	
	1045	0.3	0.1		0.042	0.037	
	1100	0.2	0.2		0.041	0.042	
	1115	0.2	0.2		0.039	0.045	
	1130	0.2	0.3		0.037	0.041	
	1145	0.1	0.3		0.031	0.040	
	1200	0.2	0.3		0.034	0.037	
	1215	0.2	0.3		0.038	0.041	
	1230	0.2	0.2		0.032	0.040	
	1245	0.3	0.3		0.029	0.036	
	1300	0.4	0.4		0.034	0.029	
	1315	0.4	0.3		0.045	0.042	
	1330	0.3	0.3		0.042	0.045	
	1345	0.2	0.6		0.034	0.042	
	1400	0.6	0.6		0.033	0.040	

CIT = Colorimetric Indicator Tube
LEL = Lower Explosive Limit
mg/m³ = Milligram per cubic meter
O₂ = Oxygen

ppm = Part per million
% = Percent
PID = Photoionization Detector

Appendix E

Waste Characterization Analytical Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Michael C Jones
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 11/27/2023 6:43:40 PM

JOB DESCRIPTION

Con Edison Former Ossining Works

JOB NUMBER

460-292815-1

Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Grace.Chang@et.eurofinsus.com
(732)593-2579

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Con Edison Former Ossining Works

Report Number: 460-292815-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/16/2023 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

No preserved Cyanide container received for Sample #1

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TCLP VOLATILE ORGANIC COMPOUNDS

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for TCLP Volatile Organic Compounds in accordance with EPA SW-846 Method 8260D - TCLP/1311. The samples were leached on 11/18/2023 and 11/20/2023 and analyzed on 11/20/2023 and 11/22/2023.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for WC-20231116(Water) (460-292815-1). Refer to the QC report for details.

Trichloroethene and Vinyl chloride failed the recovery criteria high for the MS of sample WC-20231116(Grout)MS (460-292815-2) in batch 460-946162.

Refer to the QC report for details.

Samples WC-20231116(Water) (460-292815-1)[10X] and WC-20231116(Grout) (460-292815-2)[10X] required dilution prior to analysis.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the TCLP volatiles analysis.

All other quality control parameters were within the acceptance limits.

1,2-Dichloroethane failed the recovery criteria high for LCS 460-946162/4. Vinyl chloride failed the recovery criteria high for LCSD 460-946162/8. Vinyl chloride exceeded the RPD limit. Refer to the QC report for details. Carbon disulfide failed the recovery criteria low for LCSD 460-945675/4. Refer to the QC report for details.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample WC-20231116(Grout) (460-292815-2) was analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were prepared on 11/17/2023 and analyzed on 11/20/2023.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for WC-20231116(Grout) (460-292815-2). Refer to the QC report for details.

The continuing calibration verification (CCV) analyzed in batch 460-945675 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample duplicate (LCSD) for analytical batch 460-945675 recovered outside control limits for the following analyte: Carbon disulfide. This analyte was biased low in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WC-20231116(Water) (460-292815-1). These results have been reported and qualified.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WC-20231116(Grout) (460-292815-2). These results have been reported and qualified.

The continuing calibration verification (CCV) analyzed in batch 460-946156 was outside the method criteria for the following analyte(s): Chloromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for analytical batch 460-946156 recovered outside control limits for the following analyte: 1,2,3-Trichlorobenzene. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Surrogate recovery for the following sample was outside control limits: WC-20231116(Water) (460-292815-1). Evidence of matrix interference is present; therefore, re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 460-946162 recovered above the upper control limit for 1,2-Dichloroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-946162 recovered outside control limits for the following analytes: 1,2-Dichloroethane and Vinyl chloride. These analytes were biased high in the LCS and/or LCSD and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-946162 recovered outside control limits for the following analytes: Vinyl chloride.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples WC-20231116(Water) (460-292815-1) and Trip Blank (460-292815-4) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 11/22/2023.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for WC-20231116(Water) (460-292815-1). Refer to the QC report for details.

1,2,3-Trichlorobenzene failed the recovery criteria high for LCSD 460-946156/6. Refer to the QC report for details.

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

TCLP HERBICIDES

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for TCLP herbicides in accordance with EPA SW-846 Methods 1311/ 8151A. The samples were leached on 11/18/2023 and 11/20/2023, prepared on 11/19/2023 and 11/20/2023 and analyzed on 11/20/2023 and 11/21/2023.

2,4-D failed the recovery criteria high for the MS of sample WC-20231116(Water)MS (460-292815-1) in batch 460-945925.

2,4,5-T and Silvex (2,4,5-TP) failed the recovery criteria high for the MS of sample 460-292852-9 in batch 460-945734.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the TCLP herbicides analysis.

All other quality control parameters were within the acceptance limits.

2,4,5-T and Silvex (2,4,5-TP) failed the recovery criteria high for LCS 460-945571/2-A. 2,4-D and Silvex (2,4,5-TP) failed the recovery criteria high for LCS 460-945868/2-A. 2,4,5-T and Silvex (2,4,5-TP) failed the recovery criteria high for LCSD 460-945571/3-A. 2,4-D and Silvex (2,4,5-TP) failed the recovery criteria high for LCSD 460-945868/3-A. Refer to the QC report for details.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-945571 and analytical batch 460-945734 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4,5-T. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-945868 and analytical batch 460-945925 recovered outside control limits for the all analytes: These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) (TCLP)

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for Semivolatile Organic Compounds (GC/MS) (TCLP) in accordance with EPA SW-846 Methods 8270E - TCLP/1311. The samples were leached on 11/18/2023 and 11/20/2023, prepared on 11/19/2023 and 11/20/2023 and analyzed on 11/19/2023 and 11/21/2023.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for WC-20231116(Water) (460-292815-1). Refer to the QC report for details.

Pyridine failed the recovery criteria low for the MS of sample WC-20231116(Grout)MS (460-292815-2) in batch 460-945615.

Refer to the QC report for details.

No other difficulties were encountered during the TCLP semivolatiles analysis.

The continuing calibration verification (CCV) analyzed in batch 460-945524 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-945510 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Benzaldehyde and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-945484 and analytical batch 460-945510 recovered outside control limits for the following analytes: Atrazine and Benzaldehyde. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-945484 and analytical batch 460-945510 recovered outside control limits for the following analytes: Hexachloroethane, Naphthalene, 2-Methylnaphthalene, Hexachlorocyclopentadiene and Hexachlorobutadiene.

Surrogate recovery for the following sample was outside control limits: WC-20231116(Water) (460-292815-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Surrogate recovery for the following sample was outside control limits: WC-20231116(Water) (460-292815-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

All other quality control parameters were within the acceptance limits.

Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCS 460-945569/2-A. Phenol-d5 (Surr) failed the surrogate recovery criteria high for LCSD 460-945569/3-A. Refer to the QC report for details.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample WC-20231116(Grout) (460-292815-2) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared on 11/17/2023 and analyzed on 11/19/2023.

2-Methylnaphthalene, Fluorene, Naphthalene and Phenanthrene failed the recovery criteria low for the MS of sample 460-291318-1 in batch 460-945524. Acetophenone and N-Nitrosodiphenylamine failed the recovery criteria high.

For the MSD of sample 460-291318-1 in batch 460-945524, 2-Methylnaphthalene, Fluorene, Naphthalene and Phenanthrene failed the recovery criteria low. Acetophenone, Atrazine, N-Nitrosodi-n-propylamine and N-Nitrosodiphenylamine failed the recovery criteria high. Also, 4-Chloroaniline exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample WC-20231116(Water) (460-292815-1) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared and analyzed on 11/18/2023.

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for WC-20231116(Water) (460-292815-1). Refer to the QC report for details.

Atrazine failed the recovery criteria high for LCS 460-945484/2-A. Atrazine and Benzaldehyde failed the recovery criteria high for LCSD 460-945484/3-A. 2-Methylnaphthalene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane and Naphthalene exceeded the RPD limit. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TCLP PESTICIDES

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for TCLP pesticides in accordance with EPA SW-846 Methods 1311/ 8081B. The samples were leached on 11/18/2023 and 11/20/2023, prepared on 11/19/2023 and 11/20/2023 and analyzed on 11/20/2023 and 11/21/2023.

Endrin failed the recovery criteria high for the MS of sample 460-292821-4 in batch 460-945667.

Refer to the QC report for details.

No other difficulties were encountered during the TCLP pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Sample WC-20231116(Grout) (460-292815-2) was analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/17/2023 and analyzed on 11/20/2023.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WC-20231116(Water) (460-292815-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/17/2023 and analyzed on 11/20/2023.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - TCLP

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for Metals - TCLP in accordance with EPA SW-846 Method 6020B - TCLP/1311. The samples were leached on 11/18/2023 and 11/20/2023, prepared on 11/19/2023 and 11/21/2023 and analyzed on 11/21/2023 and 11/22/2023.

No other difficulties were encountered during the TCLP Metals analysis.

All other quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Sample WC-20231116(Grout) (460-292815-2) was analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B -

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

Total. The samples were prepared on 11/18/2023 and analyzed on 11/20/2023 and 11/21/2023.

Sample WC-20231116(Grout) (460-292815-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The method blank for preparation batch 460-945547 and analytical batch 460-945634 contained aluminum and iron above the method detection limit. This target analyte concentration was less than 10% of the measured concentration in the sample; therefore, re-extraction of samples was not performed.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

METALS - TOTAL (ICP/MS)

Sample WC-20231116(Water) (460-292815-1) was analyzed for Metals - Total (ICP/MS) in accordance with EPA SW-846 Method 6020B - Total. The samples were prepared on 11/18/2023 and analyzed on 11/19/2023 and 11/22/2023.

Iron and Aluminum were detected in method blank MB 460-945547/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Calcium, Magnesium and Aluminum failed the recovery criteria high for the MS of sample 460-292722-12 in batch 460-946289.

Barium, Calcium, Magnesium and Aluminum failed the recovery criteria high for the MSD of sample 460-292722-12 in batch 460-946289.

Refer to the QC report for details.

Selenium, Vanadium and Zinc exceeded the RPD limit for the duplicate of sample 460-292722-12. Refer to the QC report for details.

Sample WC-20231116(Water) (460-292815-1)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

MERCURY - TCLP

Samples WC-20231116(Water) (460-292815-1) and WC-20231116(Grout) (460-292815-2) were analyzed for Mercury - TCLP in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 11/18/2023 and 11/20/2023, and prepared and analyzed on 11/21/2023.

No difficulties were encountered during the TCLP Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY

Sample WC-20231116(Water) (460-292815-1) was analyzed for mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/21/2023.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY - TOTAL

Sample WC-20231116(Grout) (460-292815-2) was analyzed for Mercury - Total in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 11/20/2023.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

IGNITABILITY

Sample WC-20231116(Water) (460-292815-1) was analyzed for Ignitability in accordance with 1020C. The samples were analyzed on 11/21/2023.

No difficulties were encountered during the Ignitability analysis.

All quality control parameters were within the acceptance limits.

IGNITABILITY

Sample WC-20231116(Grout) (460-292815-2) was analyzed for Ignitability in accordance with EPA SW-846 Method 1030. The samples were analyzed on 11/21/2023.

No difficulties were encountered during the Ignitability analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Sample WC-20231116(Grout) (460-292815-2) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 11/21/2023.

The following sample was received with insufficient preservation: WC-20231116(Water) (460-292815-1). The client was contacted, and the laboratory was instructed to adjust the pH and proceed with analysis. The sample was preserved with 0.25N NaOH C-1723-23 exp. 1/3/24

No difficulties were encountered during the cyanide analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Sample WC-20231116(Water) (460-292815-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 11/21/2023.

Cyanide, Total failed the recovery criteria high for the MS of sample 460-292979-20 in batch 460-946009.

Cyanide, Total failed the recovery criteria high for the MSD of sample 460-292979-20 in batch 460-946009.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

REACTIVE CYANIDE

Sample WC-20231116(Grout) (460-292815-2) was analyzed for reactive cyanide in accordance with EPA SW-846 Method 7.3.3/9014. The samples were prepared and analyzed on 11/20/2023.

No difficulties were encountered during the reactive cyanide analysis.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

REACTIVE CYANIDE

Sample WC-20231116(Water) (460-292815-1) was analyzed for reactive cyanide in accordance with EPA SW-846 Method 7.3.3/9014. The samples were prepared and analyzed on 11/20/2023.

No difficulties were encountered during the reactive cyanide analysis.

All quality control parameters were within the acceptance limits.

REACTIVE SULFIDE

Sample WC-20231116(Grout) (460-292815-2) was analyzed for reactive sulfide in accordance with EPA SW-846 Method 7.3.4/9034. The samples were prepared and analyzed on 11/20/2023.

Sulfide, Reactive failed the recovery criteria low for the MS of sample WC-20231116(Water)MS (460-292815-1) in batch 460-945825.

Sulfide, Reactive failed the recovery criteria low for the MSD of sample WC-20231116(Water)MSD (460-292815-1) in batch 460-945825.
Sulfide, Reactive exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the reactive sulfide analysis.

All other quality control parameters were within the acceptance limits.

REACTIVE SULFIDE

Sample WC-20231116(Water) (460-292815-1) was analyzed for reactive sulfide in accordance with EPA SW-846 Method 7.3.4/9034. The samples were prepared and analyzed on 11/20/2023.

No difficulties were encountered during the reactive sulfide analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample WC-20231116(Water) (460-292815-1) was analyzed for corrosivity (pH) in accordance with EPA SW-846 Method 9040C. The samples were analyzed on 11/20/2023.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-20231116(Water) (460-292815-1).

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Samples WC-20231116(Grout) (460-292815-2) and WC-20231116(Residue) (460-292815-3) were analyzed for corrosivity (pH) in accordance with EPA SW-846 Method 9045D. The samples were analyzed on 11/20/2023.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: WC-20231116(Grout) (460-292815-2) and WC-20231116(Residue) (460-292815-3).

No difficulties were encountered during the corrosivity (pH) analysis.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Job ID: 460-292815-1 (Continued)

Laboratory: Eurofins Edison (Continued)

PERCENT SOLIDS/PERCENT MOISTURE

Sample WC-20231116(Grout) (460-292815-2) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 11/17/2023.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-292815-1	WC-20231116(Water)	Water	11/16/23 09:15	11/16/23 19:00
460-292815-2	WC-20231116(Grout)	Solid	11/16/23 11:15	11/16/23 19:00
460-292815-3	WC-20231116(Residue)	Solid	11/16/23 11:45	11/16/23 19:00
460-292815-4	Trip Blank	Water	11/16/23 00:00	11/16/23 19:00

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		11/22/23 12:23	1	CJM
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		11/22/23 12:23	1	CJM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		11/22/23 12:23	1	CJM
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		11/22/23 12:23	1	CJM
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L		11/22/23 12:23	1	CJM
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		11/22/23 12:23	1	CJM
1,2,3-Trichlorobenzene	0.36	U *+	1.0	0.36	ug/L		11/22/23 12:23	1	CJM
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		11/22/23 12:23	1	CJM
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		11/22/23 12:23	1	CJM
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		11/22/23 12:23	1	CJM
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		11/22/23 12:23	1	CJM
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		11/22/23 12:23	1	CJM
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		11/22/23 12:23	1	CJM
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		11/22/23 12:23	1	CJM
2-Butanone (MEK)	6.7		5.0	1.9	ug/L		11/22/23 12:23	1	CJM
2-Hexanone	1.1	U	5.0	1.1	ug/L		11/22/23 12:23	1	CJM
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		11/22/23 12:23	1	CJM
Acetone	71		5.0	4.4	ug/L		11/22/23 12:23	1	CJM
Benzene	0.20	U	1.0	0.20	ug/L		11/22/23 12:23	1	CJM
Bromoform	0.54	U	1.0	0.54	ug/L		11/22/23 12:23	1	CJM
Bromomethane	0.55	U	1.0	0.55	ug/L		11/22/23 12:23	1	CJM
Carbon disulfide	0.82	U	1.0	0.82	ug/L		11/22/23 12:23	1	CJM
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		11/22/23 12:23	1	CJM
Chlorobenzene	0.38	U	1.0	0.38	ug/L		11/22/23 12:23	1	CJM
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		11/22/23 12:23	1	CJM
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L		11/22/23 12:23	1	CJM
Chloroethane	0.32	U	1.0	0.32	ug/L		11/22/23 12:23	1	CJM
Chloroform	0.33	U	1.0	0.33	ug/L		11/22/23 12:23	1	CJM
Chloromethane	0.40	U	1.0	0.40	ug/L		11/22/23 12:23	1	CJM
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		11/22/23 12:23	1	CJM
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/22/23 12:23	1	CJM
Cyclohexane	0.32	U	1.0	0.32	ug/L		11/22/23 12:23	1	CJM
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		11/22/23 12:23	1	CJM
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		11/22/23 12:23	1	CJM
Ethylbenzene	0.30	U	1.0	0.30	ug/L		11/22/23 12:23	1	CJM
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		11/22/23 12:23	1	CJM
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		11/22/23 12:23	1	CJM
Methyl acetate	0.79	U	5.0	0.79	ug/L		11/22/23 12:23	1	CJM
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		11/22/23 12:23	1	CJM
Methylcyclohexane	0.71	U	1.0	0.71	ug/L		11/22/23 12:23	1	CJM
Methylene Chloride	0.32	U	1.0	0.32	ug/L		11/22/23 12:23	1	CJM
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		11/22/23 12:23	1	CJM
o-Xylene	0.36	U	1.0	0.36	ug/L		11/22/23 12:23	1	CJM
Styrene	0.42	U	1.0	0.42	ug/L		11/22/23 12:23	1	CJM
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		11/22/23 12:23	1	CJM
Toluene	0.38	U	1.0	0.38	ug/L		11/22/23 12:23	1	CJM
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		11/22/23 12:23	1	CJM
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/22/23 12:23	1	CJM
Trichloroethene	0.31	U	1.0	0.31	ug/L		11/22/23 12:23	1	CJM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		11/22/23 12:23	1	CJM
Vinyl chloride	0.17	U	1.0	0.17	ug/L		11/22/23 12:23	1	CJM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	107		70 - 128	11/22/23 12:23	1	CJM
4-Bromofluorobenzene	98		76 - 120	11/22/23 12:23	1	CJM
Dibromofluoromethane (Surr)	3	S1-	77 - 132	11/22/23 12:23	1	CJM
Toluene-d8 (Surr)	92		80 - 120	11/22/23 12:23	1	CJM

Method: 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1-Dichloroethene	0.0026	U	0.010	0.0026	mg/L		11/20/23 00:59	10	VBP
1,2-Dichloroethane	0.0043	U	0.010	0.0043	mg/L		11/20/23 00:59	10	VBP
2-Butanone (MEK)	0.019	U	0.050	0.019	mg/L		11/20/23 00:59	10	VBP
Benzene	0.0020	U	0.010	0.0020	mg/L		11/20/23 00:59	10	VBP
Carbon tetrachloride	0.0021	U	0.010	0.0021	mg/L		11/20/23 00:59	10	VBP
Chlorobenzene	0.0038	U	0.010	0.0038	mg/L		11/20/23 00:59	10	VBP
Chloroform	0.0033	U	0.010	0.0033	mg/L		11/20/23 00:59	10	VBP
Tetrachloroethene	0.0025	U	0.010	0.0025	mg/L		11/20/23 00:59	10	VBP
Trichloroethene	0.0031	U	0.010	0.0031	mg/L		11/20/23 00:59	10	VBP
Vinyl chloride	0.0017	U	0.010	0.0017	mg/L		11/20/23 00:59	10	VBP

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		70 - 128	11/20/23 00:59	10	VBP
4-Bromofluorobenzene	98		76 - 120	11/20/23 00:59	10	VBP
Dibromofluoromethane (Surr)	54	S1-	77 - 132	11/20/23 00:59	10	VBP
Toluene-d8 (Surr)	91		80 - 120	11/20/23 00:59	10	VBP

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		11/18/23 17:26	1	YAH
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		11/18/23 17:26	1	YAH
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		11/18/23 17:26	1	YAH
2,3,4,6-Tetrachlorophenol	0.75	U	10	0.75	ug/L		11/18/23 17:26	1	YAH
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/18/23 17:26	1	YAH
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/18/23 17:26	1	YAH
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		11/18/23 17:26	1	YAH
2,4-Dimethylphenol	1.9	J	10	0.62	ug/L		11/18/23 17:26	1	YAH
2,4-Dinitrophenol	2.6	U	40	2.6	ug/L		11/18/23 17:26	1	YAH
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/18/23 17:26	1	YAH
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		11/18/23 17:26	1	YAH
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		11/18/23 17:26	1	YAH
2-Chlorophenol	0.38	U	10	0.38	ug/L		11/18/23 17:26	1	YAH
2-Methylnaphthalene	0.53	U *1	10	0.53	ug/L		11/18/23 17:26	1	YAH
2-Methylphenol	0.67	U	10	0.67	ug/L		11/18/23 17:26	1	YAH
2-Nitroaniline	0.47	U	10	0.47	ug/L		11/18/23 17:26	1	YAH
2-Nitrophenol	0.75	U	10	0.75	ug/L		11/18/23 17:26	1	YAH
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		11/18/23 17:26	1	YAH
3-Nitroaniline	1.9	U	10	1.9	ug/L		11/18/23 17:26	1	YAH
4,6-Dinitro-2-methylphenol	3.0	U	20	3.0	ug/L		11/18/23 17:26	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		11/18/23 17:26	1	YAH
4-Chloro-3-methylphenol	0.58	U	10	0.58	ug/L		11/18/23 17:26	1	YAH
4-Chloroaniline	1.9	U	10	1.9	ug/L		11/18/23 17:26	1	YAH
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		11/18/23 17:26	1	YAH
4-Methylphenol	0.65	U	10	0.65	ug/L		11/18/23 17:26	1	YAH
4-Nitroaniline	1.2	U	10	1.2	ug/L		11/18/23 17:26	1	YAH
4-Nitrophenol	4.0	U	20	4.0	ug/L		11/18/23 17:26	1	YAH
Acenaphthene	1.1	U	10	1.1	ug/L		11/18/23 17:26	1	YAH
Acenaphthylene	0.82	U	10	0.82	ug/L		11/18/23 17:26	1	YAH
Acetophenone	2.3	U	10	2.3	ug/L		11/18/23 17:26	1	YAH
Anthracene	1.3	U	10	1.3	ug/L		11/18/23 17:26	1	YAH
Atrazine	1.3	U *	2.0	1.3	ug/L		11/18/23 17:26	1	YAH
Benzaldehyde	2.1	U *	10	2.1	ug/L		11/18/23 17:26	1	YAH
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		11/18/23 17:26	1	YAH
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		11/18/23 17:26	1	YAH
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		11/18/23 17:26	1	YAH
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		11/18/23 17:26	1	YAH
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		11/18/23 17:26	1	YAH
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		11/18/23 17:26	1	YAH
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		11/18/23 17:26	1	YAH
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		11/18/23 17:26	1	YAH
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		11/18/23 17:26	1	YAH
Caprolactam	2.2	U	10	2.2	ug/L		11/18/23 17:26	1	YAH
Carbazole	0.68	U	10	0.68	ug/L		11/18/23 17:26	1	YAH
Chrysene	0.91	U	2.0	0.91	ug/L		11/18/23 17:26	1	YAH
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		11/18/23 17:26	1	YAH
Dibenzofuran	1.1	U	10	1.1	ug/L		11/18/23 17:26	1	YAH
Diethyl phthalate	0.98	U	10	0.98	ug/L		11/18/23 17:26	1	YAH
Dimethyl phthalate	0.77	U	10	0.77	ug/L		11/18/23 17:26	1	YAH
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		11/18/23 17:26	1	YAH
Di-n-octyl phthalate	0.75	U	10	0.75	ug/L		11/18/23 17:26	1	YAH
Fluoranthene	0.84	U	10	0.84	ug/L		11/18/23 17:26	1	YAH
Fluorene	0.91	U	10	0.91	ug/L		11/18/23 17:26	1	YAH
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/18/23 17:26	1	YAH
Hexachlorobutadiene	0.78	U *1	1.0	0.78	ug/L		11/18/23 17:26	1	YAH
Hexachlorocyclopentadiene	3.6	U *1	10	3.6	ug/L		11/18/23 17:26	1	YAH
Hexachloroethane	0.80	U *1	2.0	0.80	ug/L		11/18/23 17:26	1	YAH
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		11/18/23 17:26	1	YAH
Isophorone	0.80	U	10	0.80	ug/L		11/18/23 17:26	1	YAH
Naphthalene	0.54	U *1	2.0	0.54	ug/L		11/18/23 17:26	1	YAH
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/18/23 17:26	1	YAH
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		11/18/23 17:26	1	YAH
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		11/18/23 17:26	1	YAH
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/18/23 17:26	1	YAH
Phenanthrene	1.3	U	10	1.3	ug/L		11/18/23 17:26	1	YAH
Phenol	0.29	U	10	0.29	ug/L		11/18/23 17:26	1	YAH
Pyrene	1.6	U	10	1.6	ug/L		11/18/23 17:26	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	0	S1-	37 - 150	11/18/23 17:26	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2-Fluorobiphenyl	103		46 - 139	11/18/23 17:26	1	YAH
2-Fluorophenol (Surr)	0	S1-	16 - 80	11/18/23 17:26	1	YAH
Nitrobenzene-d5 (Surr)	101		51 - 145	11/18/23 17:26	1	YAH
Phenol-d5 (Surr)	0	S1-	10 - 56	11/18/23 17:26	1	YAH
Terphenyl-d14 (Surr)	78		13 - 150	11/18/23 17:26	1	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,4-Dichlorobenzene	0.44	U	10	0.44	ug/L		11/21/23 09:10	1	MDJ
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		11/21/23 09:10	1	MDJ
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		11/21/23 09:10	1	MDJ
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		11/21/23 09:10	1	MDJ
2-Methylphenol	0.67	U	10	0.67	ug/L		11/21/23 09:10	1	MDJ
3 & 4 Methylphenol	0.64	U	10	0.64	ug/L		11/21/23 09:10	1	MDJ
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		11/21/23 09:10	1	MDJ
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		11/21/23 09:10	1	MDJ
Hexachloroethane	0.80	U	2.0	0.80	ug/L		11/21/23 09:10	1	MDJ
Nitrobenzene	0.57	U	1.0	0.57	ug/L		11/21/23 09:10	1	MDJ
Pentachlorophenol	1.4	U	20	1.4	ug/L		11/21/23 09:10	1	MDJ
Pyridine	1.9	U	10	1.9	ug/L		11/21/23 09:10	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	0.1	S1-	37 - 150	11/21/23 09:10	1	MDJ
2-Fluorobiphenyl	131		46 - 139	11/21/23 09:10	1	MDJ
2-Fluorophenol (Surr)	0	S1-	16 - 80	11/21/23 09:10	1	MDJ
Nitrobenzene-d5 (Surr)	142		51 - 145	11/21/23 09:10	1	MDJ
Phenol-d5 (Surr)	0	S1-	10 - 56	11/21/23 09:10	1	MDJ
Terphenyl-d14 (Surr)	74		13 - 150	11/21/23 09:10	1	MDJ

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlordane (technical)	0.000055	U	0.0050	0.000055	mg/L		11/21/23 06:04	1	FAM
Endrin	0.000040	U	0.0050	0.000040	mg/L		11/21/23 06:04	1	FAM
gamma-BHC (Lindane)	0.000012	U	0.0050	0.000012	mg/L		11/21/23 06:04	1	FAM
Heptachlor	0.000030	U	0.0050	0.000030	mg/L		11/21/23 06:04	1	FAM
Heptachlor epoxide	0.000050	U	0.0050	0.000050	mg/L		11/21/23 06:04	1	FAM
Methoxychlor	0.000040	U	0.0050	0.000040	mg/L		11/21/23 06:04	1	FAM
Toxaphene	0.00011	U	0.0050	0.00011	mg/L		11/21/23 06:04	1	FAM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
DCB Decachlorobiphenyl	78		10 - 131	11/21/23 06:04	1	FAM
Tetrachloro-m-xylene	79		10 - 150	11/21/23 06:04	1	FAM

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aroclor 1016	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP
Aroclor 1221	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP
Aroclor 1232	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP
Aroclor 1242	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP
Aroclor 1248	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aroclor 1254	0.11	U	0.40	0.11	ug/L		11/20/23 15:35	1	JHP
Aroclor 1260	0.11	U	0.40	0.11	ug/L		11/20/23 15:35	1	JHP
Aroclor-1262	0.11	U	0.40	0.11	ug/L		11/20/23 15:35	1	JHP
Aroclor 1268	0.11	U	0.40	0.11	ug/L		11/20/23 15:35	1	JHP
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		11/20/23 15:35	1	JHP

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
DCB Decachlorobiphenyl	74		10 - 150	11/20/23 15:35	1	JHP
Tetrachloro-m-xylene	72		10 - 147	11/20/23 15:35	1	JHP

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-D	0.0050	U F1 **	0.083	0.0050	mg/L		11/21/23 10:41	1	SAK
Silvex (2,4,5-TP)	0.0040	U **	0.083	0.0040	mg/L		11/21/23 10:41	1	SAK

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4-Dichlorophenylacetic acid	88		10 - 150	11/21/23 10:41	1	SAK

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	575	B	40.0	19.5	ug/L		11/19/23 21:27	1	CDC
Antimony	0.76	U	2.0	0.76	ug/L		11/19/23 21:27	1	CDC
Arsenic	1.0	J	2.0	0.89	ug/L		11/19/23 21:27	1	CDC
Barium	289		4.0	0.91	ug/L		11/19/23 21:27	1	CDC
Beryllium	0.13	U	0.80	0.13	ug/L		11/19/23 21:27	1	CDC
Cadmium	2.1		2.0	0.39	ug/L		11/19/23 21:27	1	CDC
Calcium	296000		500	53.6	ug/L		11/19/23 21:27	1	CDC
Chromium	91900		200	125	ug/L		11/22/23 18:32	50	CDC
Cobalt	13.5		4.0	0.71	ug/L		11/19/23 21:27	1	CDC
Copper	160		4.0	2.5	ug/L		11/19/23 21:27	1	CDC
Iron	2550	B	120	58.2	ug/L		11/19/23 21:27	1	CDC
Lead	557		1.2	0.84	ug/L		11/19/23 21:27	1	CDC
Magnesium	556		200	46.9	ug/L		11/19/23 21:27	1	CDC
Manganese	31.9		8.0	1.5	ug/L		11/19/23 21:27	1	CDC
Nickel	20.8		4.0	0.91	ug/L		11/19/23 21:27	1	CDC
Potassium	10100000		10000	5600	ug/L		11/22/23 18:32	50	CDC
Selenium	68.1		2.5	0.59	ug/L		11/19/23 21:27	1	CDC
Silver	0.29	U	2.0	0.29	ug/L		11/19/23 21:27	1	CDC
Sodium	1200000		25000	11000	ug/L		11/22/23 18:32	50	CDC
Thallium	0.21	U	0.80	0.21	ug/L		11/19/23 21:27	1	CDC
Vanadium	1.1	J	4.0	0.68	ug/L		11/19/23 21:27	1	CDC
Zinc	24.1		16.0	6.5	ug/L		11/19/23 21:27	1	CDC

Method: 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	8.9	U	20.0	8.9	ug/L		11/22/23 15:55	10	CDC
Barium	253		40.0	9.1	ug/L		11/22/23 15:55	10	CDC
Cadmium	3.9	U	20.0	3.9	ug/L		11/22/23 15:55	10	CDC
Chromium	98300		40.0	25.0	ug/L		11/22/23 15:55	10	CDC
Copper	191		40.0	24.5	ug/L		11/22/23 15:55	10	CDC
Lead	577		12.0	8.4	ug/L		11/22/23 15:55	10	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Water)

Lab Sample ID: 460-292815-1

Date Collected: 11/16/23 09:15

Matrix: Water

Date Received: 11/16/23 19:00

Method: 6020B - Metals (ICP/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Nickel	23.9	J	40.0	9.1	ug/L		11/22/23 15:55	10	CDC
Selenium	70.7		25.0	5.9	ug/L		11/22/23 15:55	10	CDC
Silver	2.9	U	20.0	2.9	ug/L		11/22/23 15:55	10	CDC
Zinc	65.2	U	160	65.2	ug/L		11/22/23 15:55	10	CDC

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.091	U	0.20	0.091	ug/L		11/21/23 12:46	1	FBT

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.40		0.20	0.091	ug/L		11/21/23 17:00	1	RBS

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Analyzed	Dil Fac	Analyst
Ignitability	90.0				Degrees F		11/21/23 14:48	1	YAH
pH	13.3	HF			SU		11/20/23 12:48	1	MNP
Temperature	18.4	HF			Degrees C		11/20/23 12:48	1	MNP
Corrosivity	13.3	HF			SU		11/20/23 12:48	1	MNP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.012		0.010	0.0040	mg/L		11/21/23 12:58	1	AXP

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Reactive	25.0	U	25.0	25.0	mg/L		11/20/23 15:30	1	HTV
Sulfide, Reactive	20.0	U F1 F2	20.0	20.0	mg/L		11/20/23 15:30	1	HTV

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00057	U	0.0025	0.00057	mg/Kg	✱	11/20/23 11:01	1	AAT
1,1,2,2-Tetrachloroethane	0.00053	U	0.0025	0.00053	mg/Kg	✱	11/20/23 11:01	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00074	U	0.0025	0.00074	mg/Kg	✱	11/20/23 11:01	1	AAT
1,1,2-Trichloroethane	0.00044	U	0.0025	0.00044	mg/Kg	✱	11/20/23 11:01	1	AAT
1,1-Dichloroethane	0.00051	U	0.0025	0.00051	mg/Kg	✱	11/20/23 11:01	1	AAT
1,1-Dichloroethene	0.00083	J	0.0025	0.00055	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2,3-Trichlorobenzene	0.00045	U	0.0025	0.00045	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2,4-Trichlorobenzene	0.00088	U	0.0025	0.00088	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0025	0.0011	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2-Dichlorobenzene	0.00089	U	0.0025	0.00089	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2-Dichloroethane	0.00073	U	0.0025	0.00073	mg/Kg	✱	11/20/23 11:01	1	AAT
1,2-Dichloropropane	0.0010	U	0.0025	0.0010	mg/Kg	✱	11/20/23 11:01	1	AAT
1,3-Dichlorobenzene	0.00090	U	0.0025	0.00090	mg/Kg	✱	11/20/23 11:01	1	AAT
1,4-Dichlorobenzene	0.00055	U	0.0025	0.00055	mg/Kg	✱	11/20/23 11:01	1	AAT
1,4-Dioxane	0.023	U	0.25	0.023	mg/Kg	✱	11/20/23 11:01	1	AAT
2-Butanone (MEK)	0.010	J	0.012	0.00091	mg/Kg	✱	11/20/23 11:01	1	AAT
2-Hexanone	0.0042	U	0.012	0.0042	mg/Kg	✱	11/20/23 11:01	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0038	U	0.012	0.0038	mg/Kg	✱	11/20/23 11:01	1	AAT
Acetone	0.050		0.015	0.014	mg/Kg	✱	11/20/23 11:01	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzene	0.00064	U	0.0025	0.00064	mg/Kg	☼	11/20/23 11:01	1	AAT
Bromoform	0.0010	U	0.0025	0.0010	mg/Kg	☼	11/20/23 11:01	1	AAT
Bromomethane	0.0025	U	0.0049	0.0025	mg/Kg	☼	11/20/23 11:01	1	AAT
Carbon disulfide	0.00065	U *	0.0025	0.00065	mg/Kg	☼	11/20/23 11:01	1	AAT
Carbon tetrachloride	0.00095	U	0.0025	0.00095	mg/Kg	☼	11/20/23 11:01	1	AAT
Chlorobenzene	0.00044	U	0.0025	0.00044	mg/Kg	☼	11/20/23 11:01	1	AAT
Chlorobromomethane	0.00069	U	0.0025	0.00069	mg/Kg	☼	11/20/23 11:01	1	AAT
Chlorodibromomethane	0.00048	U	0.0025	0.00048	mg/Kg	☼	11/20/23 11:01	1	AAT
Chloroethane	0.0013	U	0.0025	0.0013	mg/Kg	☼	11/20/23 11:01	1	AAT
Chloroform	0.0024	U	0.0025	0.0024	mg/Kg	☼	11/20/23 11:01	1	AAT
Chloromethane	0.0011	U	0.0025	0.0011	mg/Kg	☼	11/20/23 11:01	1	AAT
cis-1,2-Dichloroethene	0.00088	U	0.0025	0.00088	mg/Kg	☼	11/20/23 11:01	1	AAT
cis-1,3-Dichloropropene	0.00067	U	0.0025	0.00067	mg/Kg	☼	11/20/23 11:01	1	AAT
Cyclohexane	0.00054	U	0.0025	0.00054	mg/Kg	☼	11/20/23 11:01	1	AAT
Dichlorobromomethane	0.00063	U	0.0025	0.00063	mg/Kg	☼	11/20/23 11:01	1	AAT
Dichlorodifluoromethane	0.00083	U	0.0025	0.00083	mg/Kg	☼	11/20/23 11:01	1	AAT
Ethylbenzene	0.00049	U	0.0025	0.00049	mg/Kg	☼	11/20/23 11:01	1	AAT
Ethylene Dibromide	0.00044	U	0.0025	0.00044	mg/Kg	☼	11/20/23 11:01	1	AAT
Isopropylbenzene	0.00070	U	0.0025	0.00070	mg/Kg	☼	11/20/23 11:01	1	AAT
Methyl acetate	0.011	U	0.012	0.011	mg/Kg	☼	11/20/23 11:01	1	AAT
Methyl tert-butyl ether	0.0013	U	0.0025	0.0013	mg/Kg	☼	11/20/23 11:01	1	AAT
Methylcyclohexane	0.0012	U	0.0025	0.0012	mg/Kg	☼	11/20/23 11:01	1	AAT
Methylene Chloride	0.0028	U	0.0049	0.0028	mg/Kg	☼	11/20/23 11:01	1	AAT
m-Xylene & p-Xylene	0.00043	U	0.0025	0.00043	mg/Kg	☼	11/20/23 11:01	1	AAT
o-Xylene	0.00048	U	0.0025	0.00048	mg/Kg	☼	11/20/23 11:01	1	AAT
Styrene	0.00068	U	0.0025	0.00068	mg/Kg	☼	11/20/23 11:01	1	AAT
Tetrachloroethene	0.00075	U	0.0025	0.00075	mg/Kg	☼	11/20/23 11:01	1	AAT
Toluene	0.00058	U	0.0025	0.00058	mg/Kg	☼	11/20/23 11:01	1	AAT
trans-1,2-Dichloroethene	0.00061	U	0.0025	0.00061	mg/Kg	☼	11/20/23 11:01	1	AAT
trans-1,3-Dichloropropene	0.00065	U	0.0025	0.00065	mg/Kg	☼	11/20/23 11:01	1	AAT
Trichloroethene	0.00079	U	0.0025	0.00079	mg/Kg	☼	11/20/23 11:01	1	AAT
Trichlorofluoromethane	0.0010	U	0.0025	0.0010	mg/Kg	☼	11/20/23 11:01	1	AAT
Vinyl chloride	0.0013	U	0.0025	0.0013	mg/Kg	☼	11/20/23 11:01	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/20/23 11:01	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	98		72 - 138	11/20/23 11:01	1	AAT
4-Bromofluorobenzene	101		63 - 139	11/20/23 11:01	1	AAT
Dibromofluoromethane (Surr)	5	S1-	54 - 150	11/20/23 11:01	1	AAT
Toluene-d8 (Surr)	95		71 - 126	11/20/23 11:01	1	AAT

Method: 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1-Dichloroethene	0.0026	U	0.010	0.0026	mg/L		11/22/23 14:20	10	CJM
1,2-Dichloroethane	0.0043	U *	0.010	0.0043	mg/L		11/22/23 14:20	10	CJM
2-Butanone (MEK)	0.019	U	0.050	0.019	mg/L		11/22/23 14:20	10	CJM
Benzene	0.0020	U	0.010	0.0020	mg/L		11/22/23 14:20	10	CJM
Carbon tetrachloride	0.0021	U	0.010	0.0021	mg/L		11/22/23 14:20	10	CJM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	0.0038	U	0.010	0.0038	mg/L		11/22/23 14:20	10	CJM
Chloroform	0.0033	U	0.010	0.0033	mg/L		11/22/23 14:20	10	CJM
Tetrachloroethene	0.0025	U	0.010	0.0025	mg/L		11/22/23 14:20	10	CJM
Trichloroethene	0.0031	U	0.010	0.0031	mg/L		11/22/23 14:20	10	CJM
Vinyl chloride	0.0017	U ** *1	0.010	0.0017	mg/L		11/22/23 14:20	10	CJM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	112		70 - 128	11/22/23 14:20	10	CJM
4-Bromofluorobenzene	83		76 - 120	11/22/23 14:20	10	CJM
Dibromofluoromethane (Surr)	93		77 - 132	11/22/23 14:20	10	CJM
Toluene-d8 (Surr)	94		80 - 120	11/22/23 14:20	10	CJM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.020	U	0.56	0.020	mg/Kg	✱	11/19/23 00:00	1	YAH
1,2,4,5-Tetrachlorobenzene	0.018	U	0.56	0.018	mg/Kg	✱	11/19/23 00:00	1	YAH
2,2'-oxybis[1-chloropropane]	0.034	U	0.56	0.034	mg/Kg	✱	11/19/23 00:00	1	YAH
2,3,4,6-Tetrachlorophenol	0.038	U	0.56	0.038	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4,5-Trichlorophenol	0.057	U	0.56	0.057	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4,6-Trichlorophenol	0.072	U	0.23	0.072	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4-Dichlorophenol	0.036	U	0.23	0.036	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4-Dimethylphenol	0.067	U	0.56	0.067	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4-Dinitrophenol	0.28	U	0.45	0.28	mg/Kg	✱	11/19/23 00:00	1	YAH
2,4-Dinitrotoluene	0.060	U	0.11	0.060	mg/Kg	✱	11/19/23 00:00	1	YAH
2,6-Dinitrotoluene	0.041	U	0.11	0.041	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Chloronaphthalene	0.026	U	0.56	0.026	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Chlorophenol	0.020	U	0.56	0.020	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Methylnaphthalene	0.016	U	0.56	0.016	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Methylphenol	0.021	U	0.56	0.021	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Nitroaniline	0.043	U	0.56	0.043	mg/Kg	✱	11/19/23 00:00	1	YAH
2-Nitrophenol	0.056	U	0.56	0.056	mg/Kg	✱	11/19/23 00:00	1	YAH
3,3'-Dichlorobenzidine	0.085	U	0.23	0.085	mg/Kg	✱	11/19/23 00:00	1	YAH
3-Nitroaniline	0.13	U	0.56	0.13	mg/Kg	✱	11/19/23 00:00	1	YAH
4,6-Dinitro-2-methylphenol	0.23	U	0.45	0.23	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Bromophenyl phenyl ether	0.022	U	0.56	0.022	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Chloro-3-methylphenol	0.032	U	0.56	0.032	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Chloroaniline	0.10	U	0.56	0.10	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Chlorophenyl phenyl ether	0.020	U	0.56	0.020	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Methylphenol	0.035	U	0.56	0.035	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Nitroaniline	0.065	U	0.56	0.065	mg/Kg	✱	11/19/23 00:00	1	YAH
4-Nitrophenol	0.092	U	1.1	0.092	mg/Kg	✱	11/19/23 00:00	1	YAH
Acenaphthene	0.016	U	0.56	0.016	mg/Kg	✱	11/19/23 00:00	1	YAH
Acenaphthylene	0.016	U	0.56	0.016	mg/Kg	✱	11/19/23 00:00	1	YAH
Acetophenone	0.028	U	0.56	0.028	mg/Kg	✱	11/19/23 00:00	1	YAH
Anthracene	0.017	U	0.56	0.017	mg/Kg	✱	11/19/23 00:00	1	YAH
Atrazine	0.033	U	0.23	0.033	mg/Kg	✱	11/19/23 00:00	1	YAH
Benzaldehyde	0.093	U	0.56	0.093	mg/Kg	✱	11/19/23 00:00	1	YAH
Benzo[a]anthracene	0.042	U	0.056	0.042	mg/Kg	✱	11/19/23 00:00	1	YAH
Benzo[a]pyrene	0.015	U	0.056	0.015	mg/Kg	✱	11/19/23 00:00	1	YAH
Benzo[b]fluoranthene	0.015	U	0.056	0.015	mg/Kg	✱	11/19/23 00:00	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[g,h,i]perylene	0.017	U	0.56	0.017	mg/Kg	☼	11/19/23 00:00	1	YAH
Benzo[k]fluoranthene	0.011	U	0.056	0.011	mg/Kg	☼	11/19/23 00:00	1	YAH
Bis(2-chloroethoxy)methane	0.044	U	0.56	0.044	mg/Kg	☼	11/19/23 00:00	1	YAH
Bis(2-chloroethyl)ether	0.020	U	0.056	0.020	mg/Kg	☼	11/19/23 00:00	1	YAH
Bis(2-ethylhexyl) phthalate	0.030	U	0.56	0.030	mg/Kg	☼	11/19/23 00:00	1	YAH
Butyl benzyl phthalate	0.026	U	0.56	0.026	mg/Kg	☼	11/19/23 00:00	1	YAH
Caprolactam	0.087	U	0.56	0.087	mg/Kg	☼	11/19/23 00:00	1	YAH
Carbazole	0.021	U	0.56	0.021	mg/Kg	☼	11/19/23 00:00	1	YAH
Chrysene	0.024	U	0.56	0.024	mg/Kg	☼	11/19/23 00:00	1	YAH
Dibenz(a,h)anthracene	0.024	U	0.056	0.024	mg/Kg	☼	11/19/23 00:00	1	YAH
Dibenzofuran	0.019	U	0.56	0.019	mg/Kg	☼	11/19/23 00:00	1	YAH
Diethyl phthalate	0.018	U	0.56	0.018	mg/Kg	☼	11/19/23 00:00	1	YAH
Dimethyl phthalate	0.13	U	0.56	0.13	mg/Kg	☼	11/19/23 00:00	1	YAH
Di-n-butyl phthalate	0.021	U	0.56	0.021	mg/Kg	☼	11/19/23 00:00	1	YAH
Di-n-octyl phthalate	0.030	U	0.56	0.030	mg/Kg	☼	11/19/23 00:00	1	YAH
Fluoranthene	0.020	U	0.56	0.020	mg/Kg	☼	11/19/23 00:00	1	YAH
Fluorene	0.016	U	0.56	0.016	mg/Kg	☼	11/19/23 00:00	1	YAH
Hexachlorobenzene	0.027	U	0.056	0.027	mg/Kg	☼	11/19/23 00:00	1	YAH
Hexachlorobutadiene	0.012	U	0.11	0.012	mg/Kg	☼	11/19/23 00:00	1	YAH
Hexachlorocyclopentadiene	0.049	U	0.56	0.049	mg/Kg	☼	11/19/23 00:00	1	YAH
Hexachloroethane	0.019	U	0.056	0.019	mg/Kg	☼	11/19/23 00:00	1	YAH
Indeno[1,2,3-cd]pyrene	0.022	U	0.056	0.022	mg/Kg	☼	11/19/23 00:00	1	YAH
Isophorone	0.16	U	0.23	0.16	mg/Kg	☼	11/19/23 00:00	1	YAH
Naphthalene	0.0097	U	0.56	0.0097	mg/Kg	☼	11/19/23 00:00	1	YAH
Nitrobenzene	0.031	U	0.056	0.031	mg/Kg	☼	11/19/23 00:00	1	YAH
N-Nitrosodi-n-propylamine	0.041	U	0.056	0.041	mg/Kg	☼	11/19/23 00:00	1	YAH
N-Nitrosodiphenylamine	0.046	U	0.56	0.046	mg/Kg	☼	11/19/23 00:00	1	YAH
Pentachlorophenol	0.12	U	0.45	0.12	mg/Kg	☼	11/19/23 00:00	1	YAH
Phenanthrene	0.023	U	0.56	0.023	mg/Kg	☼	11/19/23 00:00	1	YAH
Phenol	0.021	U	0.56	0.021	mg/Kg	☼	11/19/23 00:00	1	YAH
Pyrene	0.014	U	0.56	0.014	mg/Kg	☼	11/19/23 00:00	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	10	A J	mg/Kg	☼	2.29	N/A	11/19/23 00:00	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	100		24 - 137	11/19/23 00:00	1	YAH
2-Fluorobiphenyl	87		48 - 120	11/19/23 00:00	1	YAH
2-Fluorophenol (Surr)	90		31 - 120	11/19/23 00:00	1	YAH
Nitrobenzene-d5 (Surr)	86		38 - 120	11/19/23 00:00	1	YAH
Phenol-d5 (Surr)	91		39 - 120	11/19/23 00:00	1	YAH
Terphenyl-d14 (Surr)	100		25 - 126	11/19/23 00:00	1	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,4-Dichlorobenzene	0.00040	U	0.010	0.00040	mg/L		11/19/23 18:00	1	YAH
2,4,5-Trichlorophenol	0.00080	U	0.010	0.00080	mg/L		11/19/23 18:00	1	YAH
2,4,6-Trichlorophenol	0.00080	U	0.010	0.00080	mg/L		11/19/23 18:00	1	YAH
2,4-Dinitrotoluene	0.0010	U	0.010	0.0010	mg/L		11/19/23 18:00	1	YAH
2-Methylphenol	0.00060	U	0.010	0.00060	mg/L		11/19/23 18:00	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
3 & 4 Methylphenol	0.00060	U	0.010	0.00060	mg/L		11/19/23 18:00	1	YAH
Hexachlorobenzene	0.00040	U	0.0010	0.00040	mg/L		11/19/23 18:00	1	YAH
Hexachlorobutadiene	0.00080	U	0.0020	0.00080	mg/L		11/19/23 18:00	1	YAH
Hexachloroethane	0.0012	U	0.0020	0.0012	mg/L		11/19/23 18:00	1	YAH
Nitrobenzene	0.00060	U	0.0010	0.00060	mg/L		11/19/23 18:00	1	YAH
Pentachlorophenol	0.0014	U	0.030	0.0014	mg/L		11/19/23 18:00	1	YAH
Pyridine	0.0019	U F1	0.010	0.0019	mg/L		11/19/23 18:00	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	115		37 - 150	11/19/23 18:00	1	YAH
2-Fluorobiphenyl	108		46 - 139	11/19/23 18:00	1	YAH
2-Fluorophenol (Surr)	59		16 - 80	11/19/23 18:00	1	YAH
Nitrobenzene-d5 (Surr)	114		51 - 145	11/19/23 18:00	1	YAH
Phenol-d5 (Surr)	41		10 - 56	11/19/23 18:00	1	YAH
Terphenyl-d14 (Surr)	50		13 - 150	11/19/23 18:00	1	YAH

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlordane (technical)	0.000055	U	0.0050	0.000055	mg/L		11/20/23 09:55	1	FAM
Endrin	0.0000040	U	0.00050	0.0000040	mg/L		11/20/23 09:55	1	FAM
gamma-BHC (Lindane)	0.000012	U	0.00050	0.000012	mg/L		11/20/23 09:55	1	FAM
Heptachlor	0.0000030	U	0.00050	0.0000030	mg/L		11/20/23 09:55	1	FAM
Heptachlor epoxide	0.0000050	U	0.00050	0.0000050	mg/L		11/20/23 09:55	1	FAM
Methoxychlor	0.0000040	U	0.00050	0.0000040	mg/L		11/20/23 09:55	1	FAM
Toxaphene	0.00011	U	0.0050	0.00011	mg/L		11/20/23 09:55	1	FAM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
DCB Decachlorobiphenyl	91		10 - 131	11/20/23 09:55	1	FAM
Tetrachloro-m-xylene	81		10 - 150	11/20/23 09:55	1	FAM

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aroclor 1016	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1221	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1232	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1242	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1248	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1254	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1260	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor-1262	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Aroclor 1268	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP
Polychlorinated biphenyls, Total	30	U	110	30	ug/Kg	✱	11/20/23 12:06	1	JHP

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
DCB Decachlorobiphenyl	97		34 - 150	11/20/23 12:06	1	JHP
Tetrachloro-m-xylene	94		34 - 150	11/20/23 12:06	1	JHP

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-D	0.0050	U	0.083	0.0050	mg/L		11/20/23 12:14	1	SAK
Silvex (2,4,5-TP)	0.0040	U *+	0.083	0.0040	mg/L		11/20/23 12:14	1	SAK

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

Method: 8151A - Herbicides (GC) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4,5-T	0.0020	U *	0.083	0.0020	mg/L		11/20/23 12:14	1	SAK
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
2,4-Dichlorophenylacetic acid	45		10 - 150				11/20/23 12:14	1	SAK

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	15300		26.8	7.4	mg/Kg	✱	11/20/23 18:40	1	YZH
Antimony	0.75	J	1.3	0.20	mg/Kg	✱	11/20/23 18:40	1	YZH
Arsenic	3.5		1.3	0.14	mg/Kg	✱	11/20/23 18:40	1	YZH
Barium	92.0		2.7	0.19	mg/Kg	✱	11/20/23 18:40	1	YZH
Beryllium	0.50	J	0.54	0.076	mg/Kg	✱	11/20/23 18:40	1	YZH
Cadmium	0.16	J	1.3	0.15	mg/Kg	✱	11/20/23 18:40	1	YZH
Calcium	271000		671	273	mg/Kg	✱	11/21/23 18:59	5	CDC
Chromium	731		2.7	1.2	mg/Kg	✱	11/20/23 18:40	1	YZH
Cobalt	3.9		2.7	0.20	mg/Kg	✱	11/20/23 18:40	1	YZH
Copper	69.0		2.7	0.49	mg/Kg	✱	11/20/23 18:40	1	YZH
Iron	13800		80.5	27.1	mg/Kg	✱	11/20/23 18:40	1	YZH
Lead	74.1		4.0	1.3	mg/Kg	✱	11/21/23 18:59	5	CDC
Magnesium	11500		134	13.7	mg/Kg	✱	11/20/23 18:40	1	YZH
Manganese	852		5.4	0.54	mg/Kg	✱	11/20/23 18:40	1	YZH
Nickel	20.0		2.7	0.63	mg/Kg	✱	11/20/23 18:40	1	YZH
Potassium	8770		134	21.7	mg/Kg	✱	11/20/23 18:40	1	YZH
Selenium	0.44	J	1.7	0.17	mg/Kg	✱	11/20/23 18:40	1	YZH
Silver	1.7		0.54	0.12	mg/Kg	✱	11/20/23 18:40	1	YZH
Sodium	1310		134	61.3	mg/Kg	✱	11/20/23 18:40	1	YZH
Thallium	0.055	U	0.54	0.055	mg/Kg	✱	11/20/23 18:40	1	YZH
Vanadium	20.7		2.7	0.28	mg/Kg	✱	11/20/23 18:40	1	YZH
Zinc	272		10.7	4.1	mg/Kg	✱	11/20/23 18:40	1	YZH

Method: 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	0.0089	U	0.020	0.0089	mg/L		11/21/23 14:39	10	CDC
Barium	0.64		0.040	0.0091	mg/L		11/21/23 14:39	10	CDC
Cadmium	0.0039	U	0.020	0.0039	mg/L		11/21/23 14:39	10	CDC
Chromium	1.0		0.040	0.025	mg/L		11/21/23 14:39	10	CDC
Lead	0.019		0.012	0.0084	mg/L		11/21/23 14:39	10	CDC
Selenium	0.0059	U	0.025	0.0059	mg/L		11/21/23 14:39	10	CDC
Silver	0.0029	U	0.020	0.0029	mg/L		11/21/23 14:39	10	CDC

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.00018	J	0.00020	0.000091	mg/L		11/21/23 17:02	1	RBS

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.013	U	0.028	0.013	mg/Kg	✱	11/20/23 05:44	1	TJS

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Analyzed	Dil Fac	Analyst
pH	12.6	HF			SU		11/20/23 11:57	1	MNP

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: WC-20231116(Grout)

Lab Sample ID: 460-292815-2

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/16/23 19:00

Percent Solids: 58.7

General Chemistry (Continued)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Analyzed	Dil Fac	Analyst
Temperature	18.4	HF			Degrees C		11/20/23 11:57	1	MNP
Corrosivity	12.6	HF			SU		11/20/23 11:57	1	MNP
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.34	J	0.35	0.19	mg/Kg	☆	11/21/23 12:35	1	AXP
Sulfide, Reactive	17.4	U	20.0	17.4	mg/Kg		11/20/23 15:30	1	HTV
Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Burn Rate	2.20	U	2.20	2.20	mm/sec		11/21/23 15:29	1	YAH
Cyanide, Reactive	25.0	U	25.0	25.0	mg/Kg		11/20/23 15:30	1	HTV

Client Sample ID: WC-20231116(Residue)

Lab Sample ID: 460-292815-3

Date Collected: 11/16/23 11:45

Matrix: Solid

Date Received: 11/16/23 19:00

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Analyzed	Dil Fac	Analyst
pH	12.2	HF			SU		11/20/23 12:00	1	MNP
Temperature	18.2	HF			Degrees C		11/20/23 12:00	1	MNP
Corrosivity	12.2	HF			SU		11/20/23 12:00	1	MNP

Client Sample ID: Trip Blank

Lab Sample ID: 460-292815-4

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		11/22/23 11:37	1	CJM
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		11/22/23 11:37	1	CJM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		11/22/23 11:37	1	CJM
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		11/22/23 11:37	1	CJM
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L		11/22/23 11:37	1	CJM
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		11/22/23 11:37	1	CJM
1,2,3-Trichlorobenzene	0.36	U *	1.0	0.36	ug/L		11/22/23 11:37	1	CJM
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		11/22/23 11:37	1	CJM
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		11/22/23 11:37	1	CJM
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		11/22/23 11:37	1	CJM
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		11/22/23 11:37	1	CJM
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		11/22/23 11:37	1	CJM
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		11/22/23 11:37	1	CJM
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		11/22/23 11:37	1	CJM
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		11/22/23 11:37	1	CJM
2-Hexanone	1.1	U	5.0	1.1	ug/L		11/22/23 11:37	1	CJM
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		11/22/23 11:37	1	CJM
Acetone	4.4	U	5.0	4.4	ug/L		11/22/23 11:37	1	CJM
Benzene	0.20	U	1.0	0.20	ug/L		11/22/23 11:37	1	CJM
Bromoform	0.54	U	1.0	0.54	ug/L		11/22/23 11:37	1	CJM
Bromomethane	0.55	U	1.0	0.55	ug/L		11/22/23 11:37	1	CJM
Carbon disulfide	0.82	U	1.0	0.82	ug/L		11/22/23 11:37	1	CJM
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		11/22/23 11:37	1	CJM
Chlorobenzene	0.38	U	1.0	0.38	ug/L		11/22/23 11:37	1	CJM
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		11/22/23 11:37	1	CJM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-292815-4

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/16/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L		11/22/23 11:37	1	CJM
Chloroethane	0.32	U	1.0	0.32	ug/L		11/22/23 11:37	1	CJM
Chloroform	0.33	U	1.0	0.33	ug/L		11/22/23 11:37	1	CJM
Chloromethane	0.40	U	1.0	0.40	ug/L		11/22/23 11:37	1	CJM
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		11/22/23 11:37	1	CJM
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/22/23 11:37	1	CJM
Cyclohexane	0.32	U	1.0	0.32	ug/L		11/22/23 11:37	1	CJM
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		11/22/23 11:37	1	CJM
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		11/22/23 11:37	1	CJM
Ethylbenzene	0.30	U	1.0	0.30	ug/L		11/22/23 11:37	1	CJM
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		11/22/23 11:37	1	CJM
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		11/22/23 11:37	1	CJM
Methyl acetate	0.79	U	5.0	0.79	ug/L		11/22/23 11:37	1	CJM
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		11/22/23 11:37	1	CJM
Methylcyclohexane	0.71	U	1.0	0.71	ug/L		11/22/23 11:37	1	CJM
Methylene Chloride	0.32	U	1.0	0.32	ug/L		11/22/23 11:37	1	CJM
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		11/22/23 11:37	1	CJM
o-Xylene	0.36	U	1.0	0.36	ug/L		11/22/23 11:37	1	CJM
Styrene	0.42	U	1.0	0.42	ug/L		11/22/23 11:37	1	CJM
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		11/22/23 11:37	1	CJM
Toluene	0.38	U	1.0	0.38	ug/L		11/22/23 11:37	1	CJM
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		11/22/23 11:37	1	CJM
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/22/23 11:37	1	CJM
Trichloroethene	0.31	U	1.0	0.31	ug/L		11/22/23 11:37	1	CJM
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		11/22/23 11:37	1	CJM
Vinyl chloride	0.17	U	1.0	0.17	ug/L		11/22/23 11:37	1	CJM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	99		70 - 128	11/22/23 11:37	1	CJM
4-Bromofluorobenzene	99		76 - 120	11/22/23 11:37	1	CJM
Dibromofluoromethane (Surr)	105		77 - 132	11/22/23 11:37	1	CJM
Toluene-d8 (Surr)	92		80 - 120	11/22/23 11:37	1	CJM

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1020C		Water	Ignitability
7470A	7470A	Solid	Mercury
8270E	3510C	Solid	3 & 4 Methylphenol
8270E	3510C	Water	3 & 4 Methylphenol
9014	7.3.3	Solid	Cyanide, Reactive
9014	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	Corrosivity
9040C		Water	pH
9040C		Water	Temperature
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Qualifiers (Continued)

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
8151A	Herbicides (GC)	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
1020C	Ignitability, Small Scale Closed-Cup Method	SW846	EET EDI
1030	Ignitability, Solids	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable	SW846	EET EDI
9014	Cyanide, Reactive	SW846	EET EDI
9034	Sulfide, Reactive	SW846	EET EDI
9040C	pH	SW846	EET EDI
9045D	pH	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
1311	TCLP Extraction	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7.3.3	Cyanide, Reactive	SW846	EET EDI
7.3.4	Sulfide, Reactive	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
8151A	Extraction (Herbicides)	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Chain of Custody Record

637636



Environment Testing
America

192015

TAL-9210

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: <u>M. Jones</u>		Site Contact: <u>M. Jones</u>		Date: <u>11/16/23</u>		Carrier: <u>11/16/23</u>		COG No. <u>1</u> of <u>1</u> COGs	
Company Name: <u>Arachis</u>		Tel/Email: <u>Arachis@Arachis.com</u>		Lab Contact: <u>Arachis</u>		Sampler: <u>NT</u>		For Lab Use Only		Walk-in Client: <u>Lab Sampling</u>	
Address: <u>281 W Fayette St</u>		City/State/Zip: <u>Springfield, NY 13203</u>		Phone: <u>315-247-3244</u>		Fax: <u></u>		Job / SDG No. <u></u>		Sample Specific Notes:	
Project Name: <u>Con Edison Ossining</u>		Site: <u>Con Edison Ossining</u>		PO # <u>001</u>		Analysis Turnaround Time		TAT if different from Below		Sample Specific Notes:	
						CALENDAR DAYS		WORKING DAYS			
						☐ 2 weeks		☒ 1 week			
						☐ 1 day		☐ 2 days			
						☐ 1 day		☐ 2 days			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs TCL	VOCs - TCLP	VOCs - TCL
WC-20231116 (Water)	11/16/23	0915	G	W	18	N	N	N	VOCs - TCLP	VOCs - TCL	VOCs - TCL
WC-20231116 (Grout)	11/16/23	1115	G	S	12	N	N	N	VOCs - TCLP	VOCs - TCL	VOCs - TCL
WC-20231116 (Residue)	11/16/23	1145	G	S	1	N	N	N	VOCs - TCLP	VOCs - TCL	VOCs - TCL
 460-292815 Chain of Custody											
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
Special Instructions/QC Requirements & Comments: Expedited Turnaround for all samples											
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp. (°C): Obs'd: <u></u> Cor'd: <u></u>		Therm ID No. <u></u>		Return to Client ☐ Archive for <u></u> Months		Disposal by Lab ☒	
Relinquished by: <u>M. Jones</u>		Company: <u>Arachis</u>		Date/Time: <u>11/16/23 1200</u>		Received by: <u>Arachis</u>		Company: <u>Arachis</u>		Date/Time: <u>11-16-23 1300</u>	
Relinquished by: <u>Arachis</u>		Company: <u>Arachis</u>		Date/Time: <u>11-16-23 1700</u>		Received by: <u>Arachis</u>		Company: <u>Arachis</u>		Date/Time: <u>11-16-23 1700</u>	
Relinquished by: <u>Arachis</u>		Company: <u>Arachis</u>		Date/Time: <u>11/16/23 1800</u>		Received by: <u>Arachis</u>		Company: <u>Arachis</u>		Date/Time: <u>11/16/23 1800</u>	

Elmsford
272

SHORT
HOLD

123 k4209

- 1
- 2
- 3
- 4
- 5
- 6
- 7

292815

Number of Coolers:

IR Gun #

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	13	14	Cooler #4:		
Cooler #2:			Cooler #5:		
Cooler #3:			Cooler #6:		
			Cooler #7:		
			Cooler #8:		
			Cooler #9:		

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted

Preservative Name/Conc.

Lot # of Preservative(s)

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Edison

777 New Durham Road

Edison, NJ 08817

Tel: (732)549-3900

TestAmerica Job ID: 460-148055-1

Client Project/Site: Ossining, NY Project CON EDISON

For:

ARCADIS U.S. Inc

One Lincoln Center

110 West Fayette St, Suite 300

Syracuse, New York 13202

Attn: Mr. Michael C Jones



Authorized for release by:

1/22/2018 11:07:12 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

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Visit us at:

www.testamericainc.com

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

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	15
QC Sample Results	17
QC Association Summary	34
Lab Chronicle	38
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	45



Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Job ID: 460-148055-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative 460-148055-1

Receipt

The samples were received on 1/8/2018 7:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-395370 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following sample is impacted: RW-D (460-148055-1).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-395370 recovered outside acceptance criteria, low biased, for 2-Hexanone and 4-Methyl-2-pentanone (MIBK). A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following sample is impacted: RW-D (460-148055-1).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-D (460-148055-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-D (460-148055-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the nature of the TCLP sample matrix: (LB 480-395779/1-A). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: RW-D PPE (460-148055-2), (460-148055-D-2-B MS) and (460-148055-D-2-B MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 480-395565 recovered above the upper control limit for the analytes Chloromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane. The sample associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The following sample is impacted: RW-D (460-148055-1).

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

GC/MS Semi VOA

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: RW-D (460-148055-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-D (460-148055-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to the abundance of target analytes: RW-D (460-148055-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-D (460-148055-1). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Job ID: 460-148055-1 (Continued)

Laboratory: TestAmerica Edison (Continued)

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-D (460-148055-1).

Method(s) 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-D PPE (460-148055-2).

Method(s) 9045D: Due to the nature of the matrix, a smaller volume was used during analysis. According to the method, 20g of sample is necessary for the analysis. However, in this instance, 5g of sample was used: RW-D PPE (460-148055-2).

Method(s) 9045D: Due to the absorptive nature of the matrix, a larger amount of deionized was necessary to perform the analysis. According to the method, 20mL of deionized water is necessary for the analysis. However, in this instance, 40mL of sample was used: RW-D PPE (460-148055-2).

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

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-395928.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Lab Sample ID: 460-148055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	36000	E	200	82	ug/L	200		8260C	Total/NA
Ethylbenzene	1500		200	150	ug/L	200		8260C	Total/NA
Styrene	3800		200	150	ug/L	200		8260C	Total/NA
Toluene	13000		200	100	ug/L	200		8260C	Total/NA
Xylenes, Total	3700		400	130	ug/L	200		8260C	Total/NA
Benzene - DL	36000		800	330	ug/L	800		8260C	Total/NA
Ethylbenzene - DL	1400		800	590	ug/L	800		8260C	Total/NA
Styrene - DL	3100		800	580	ug/L	800		8260C	Total/NA
Toluene - DL	12000		800	410	ug/L	800		8260C	Total/NA
Xylenes, Total - DL	3300		1600	530	ug/L	800		8260C	Total/NA
Biphenyl	53	J	100	13	ug/L	20		8270D	Total/NA
2-Methylnaphthalene	750		100	12	ug/L	20		8270D	Total/NA
2-Methylphenol	23	J	100	8.0	ug/L	20		8270D	Total/NA
4-Methylphenol	7.4	J	200	7.2	ug/L	20		8270D	Total/NA
Acenaphthene	20	J	100	8.2	ug/L	20		8270D	Total/NA
Acenaphthylene	460		100	7.6	ug/L	20		8270D	Total/NA
Acetophenone	14	J	100	11	ug/L	20		8270D	Total/NA
Anthracene	25	J	100	5.6	ug/L	20		8270D	Total/NA
Benzo(a)anthracene	8.4	J	100	7.2	ug/L	20		8270D	Total/NA
Carbazole	50	J	100	6.0	ug/L	20		8270D	Total/NA
Dibenzofuran	12	J	200	10	ug/L	20		8270D	Total/NA
Fluoranthene	20	J	100	8.0	ug/L	20		8270D	Total/NA
Fluorene	78	J	100	7.2	ug/L	20		8270D	Total/NA
Naphthalene	4200	E	100	15	ug/L	20		8270D	Total/NA
Phenanthrene	120		100	8.8	ug/L	20		8270D	Total/NA
Phenol	15	J	100	7.8	ug/L	20		8270D	Total/NA
Pyrene	30	J	100	6.8	ug/L	20		8270D	Total/NA
2-Methylnaphthalene - DL	720	J	2500	300	ug/L	500		8270D	Total/NA
Acenaphthylene - DL	410	J	2500	190	ug/L	500		8270D	Total/NA
Naphthalene - DL	8600		2500	380	ug/L	500		8270D	Total/NA
Barium	0.018		0.0020	0.00070	mg/L	1		6010C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.83	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.7	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

Client Sample ID: RW-D PPE

Lab Sample ID: 460-148055-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0095	J	0.020	0.0082	mg/L	20		8260C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		9045D	Total/NA
Temperature	20.5	HF	0.001	0.001	Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D
Date Collected: 01/08/18 13:00
Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			01/11/18 13:13	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			01/11/18 13:13	200
1,1,2-Trichloroethane	ND		200	46	ug/L			01/11/18 13:13	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			01/11/18 13:13	200
1,1-Dichloroethane	ND		200	76	ug/L			01/11/18 13:13	200
1,1-Dichloroethene	ND		200	58	ug/L			01/11/18 13:13	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			01/11/18 13:13	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			01/11/18 13:13	200
1,2-Dibromoethane	ND		200	150	ug/L			01/11/18 13:13	200
1,2-Dichlorobenzene	ND		200	160	ug/L			01/11/18 13:13	200
1,2-Dichloroethane	ND		200	42	ug/L			01/11/18 13:13	200
1,2-Dichloropropane	ND		200	140	ug/L			01/11/18 13:13	200
1,3-Dichlorobenzene	ND		200	160	ug/L			01/11/18 13:13	200
1,4-Dichlorobenzene	ND		200	170	ug/L			01/11/18 13:13	200
2-Hexanone	ND		1000	250	ug/L			01/11/18 13:13	200
2-Butanone (MEK)	ND		2000	260	ug/L			01/11/18 13:13	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			01/11/18 13:13	200
Acetone	ND		2000	600	ug/L			01/11/18 13:13	200
Benzene	36000	E	200	82	ug/L			01/11/18 13:13	200
Bromodichloromethane	ND		200	78	ug/L			01/11/18 13:13	200
Bromoform	ND		200	52	ug/L			01/11/18 13:13	200
Bromomethane	ND		200	140	ug/L			01/11/18 13:13	200
Carbon disulfide	ND		200	38	ug/L			01/11/18 13:13	200
Carbon tetrachloride	ND		200	54	ug/L			01/11/18 13:13	200
Chlorobenzene	ND		200	150	ug/L			01/11/18 13:13	200
Dibromochloromethane	ND		200	64	ug/L			01/11/18 13:13	200
Chloroethane	ND		200	64	ug/L			01/11/18 13:13	200
Chloroform	ND		200	68	ug/L			01/11/18 13:13	200
Chloromethane	ND		200	70	ug/L			01/11/18 13:13	200
cis-1,2-Dichloroethene	ND		200	160	ug/L			01/11/18 13:13	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			01/11/18 13:13	200
Cyclohexane	ND		200	36	ug/L			01/11/18 13:13	200
Dichlorodifluoromethane	ND		200	140	ug/L			01/11/18 13:13	200
Ethylbenzene	1500		200	150	ug/L			01/11/18 13:13	200
Isopropylbenzene	ND		200	160	ug/L			01/11/18 13:13	200
Methyl acetate	ND		500	260	ug/L			01/11/18 13:13	200
Methyl tert-butyl ether	ND		200	32	ug/L			01/11/18 13:13	200
Methylcyclohexane	ND		200	32	ug/L			01/11/18 13:13	200
Methylene Chloride	ND		200	88	ug/L			01/11/18 13:13	200
Styrene	3800		200	150	ug/L			01/11/18 13:13	200
Tetrachloroethene	ND		200	72	ug/L			01/11/18 13:13	200
Toluene	13000		200	100	ug/L			01/11/18 13:13	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			01/11/18 13:13	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			01/11/18 13:13	200
Trichloroethene	ND		200	92	ug/L			01/11/18 13:13	200
Trichlorofluoromethane	ND		200	180	ug/L			01/11/18 13:13	200
Vinyl chloride	ND		200	180	ug/L			01/11/18 13:13	200
Xylenes, Total	3700		400	130	ug/L			01/11/18 13:13	200

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		01/11/18 13:13	200
Toluene-d8 (Surr)	96		80 - 120		01/11/18 13:13	200
4-Bromofluorobenzene (Surr)	102		73 - 120		01/11/18 13:13	200
Dibromofluoromethane (Surr)	101		75 - 123		01/11/18 13:13	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		800	660	ug/L			01/12/18 16:25	800
1,1,2,2-Tetrachloroethane	ND		800	170	ug/L			01/12/18 16:25	800
1,1,2-Trichloroethane	ND		800	180	ug/L			01/12/18 16:25	800
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		800	250	ug/L			01/12/18 16:25	800
1,1-Dichloroethane	ND		800	300	ug/L			01/12/18 16:25	800
1,1-Dichloroethene	ND		800	230	ug/L			01/12/18 16:25	800
1,2,4-Trichlorobenzene	ND		800	330	ug/L			01/12/18 16:25	800
1,2-Dibromo-3-Chloropropane	ND		800	310	ug/L			01/12/18 16:25	800
1,2-Dibromoethane	ND		800	580	ug/L			01/12/18 16:25	800
1,2-Dichlorobenzene	ND		800	630	ug/L			01/12/18 16:25	800
1,2-Dichloroethane	ND		800	170	ug/L			01/12/18 16:25	800
1,2-Dichloropropane	ND		800	580	ug/L			01/12/18 16:25	800
1,3-Dichlorobenzene	ND		800	620	ug/L			01/12/18 16:25	800
1,4-Dichlorobenzene	ND		800	670	ug/L			01/12/18 16:25	800
2-Hexanone	ND		4000	990	ug/L			01/12/18 16:25	800
2-Butanone (MEK)	ND		8000	1100	ug/L			01/12/18 16:25	800
4-Methyl-2-pentanone (MIBK)	ND		4000	1700	ug/L			01/12/18 16:25	800
Acetone	ND		8000	2400	ug/L			01/12/18 16:25	800
Benzene	36000		800	330	ug/L			01/12/18 16:25	800
Bromodichloromethane	ND		800	310	ug/L			01/12/18 16:25	800
Bromoform	ND		800	210	ug/L			01/12/18 16:25	800
Bromomethane	ND		800	550	ug/L			01/12/18 16:25	800
Carbon disulfide	ND		800	150	ug/L			01/12/18 16:25	800
Carbon tetrachloride	ND		800	220	ug/L			01/12/18 16:25	800
Chlorobenzene	ND		800	600	ug/L			01/12/18 16:25	800
Dibromochloromethane	ND		800	260	ug/L			01/12/18 16:25	800
Chloroethane	ND		800	260	ug/L			01/12/18 16:25	800
Chloroform	ND		800	270	ug/L			01/12/18 16:25	800
Chloromethane	ND		800	280	ug/L			01/12/18 16:25	800
cis-1,2-Dichloroethene	ND		800	650	ug/L			01/12/18 16:25	800
cis-1,3-Dichloropropene	ND		800	290	ug/L			01/12/18 16:25	800
Cyclohexane	ND		800	140	ug/L			01/12/18 16:25	800
Dichlorodifluoromethane	ND		800	540	ug/L			01/12/18 16:25	800
Ethylbenzene	1400		800	590	ug/L			01/12/18 16:25	800
Isopropylbenzene	ND		800	630	ug/L			01/12/18 16:25	800
Methyl acetate	ND		2000	1000	ug/L			01/12/18 16:25	800
Methyl tert-butyl ether	ND		800	130	ug/L			01/12/18 16:25	800
Methylcyclohexane	ND		800	130	ug/L			01/12/18 16:25	800
Methylene Chloride	ND		800	350	ug/L			01/12/18 16:25	800
Styrene	3100		800	580	ug/L			01/12/18 16:25	800
Tetrachloroethene	ND		800	290	ug/L			01/12/18 16:25	800
Toluene	12000		800	410	ug/L			01/12/18 16:25	800
trans-1,2-Dichloroethene	ND		800	720	ug/L			01/12/18 16:25	800

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		800	300	ug/L			01/12/18 16:25	800
Trichloroethene	ND		800	370	ug/L			01/12/18 16:25	800
Trichlorofluoromethane	ND		800	700	ug/L			01/12/18 16:25	800
Vinyl chloride	ND		800	720	ug/L			01/12/18 16:25	800
Xylenes, Total	3300		1600	530	ug/L			01/12/18 16:25	800

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		01/12/18 16:25	800
Toluene-d8 (Surr)	95		80 - 120		01/12/18 16:25	800
4-Bromofluorobenzene (Surr)	94		73 - 120		01/12/18 16:25	800
Dibromofluoromethane (Surr)	111		75 - 123		01/12/18 16:25	800

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	53	J	100	13	ug/L		01/11/18 14:49	01/18/18 19:22	20
bis (2-chloroisopropyl) ether	ND		100	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4,5-Trichlorophenol	ND		100	9.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4,6-Trichlorophenol	ND		100	12	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4-Dichlorophenol	ND		100	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4-Dimethylphenol	ND		100	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4-Dinitrophenol	ND		200	44	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,4-Dinitrotoluene	ND		100	8.9	ug/L		01/11/18 14:49	01/18/18 19:22	20
2,6-Dinitrotoluene	ND		100	8.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Chloronaphthalene	ND		100	9.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Chlorophenol	ND		100	11	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Methylnaphthalene	750		100	12	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Methylphenol	23	J	100	8.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Nitroaniline	ND		200	8.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
2-Nitrophenol	ND		100	9.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
3,3'-Dichlorobenzidine	ND		100	8.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
3-Nitroaniline	ND		200	9.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
4,6-Dinitro-2-methylphenol	ND		200	44	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Bromophenyl phenyl ether	ND		100	9.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Chloro-3-methylphenol	ND		100	9.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Chloroaniline	ND		100	12	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Chlorophenyl phenyl ether	ND		100	7.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Methylphenol	7.4	J	200	7.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Nitroaniline	ND		200	5.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
4-Nitrophenol	ND		200	30	ug/L		01/11/18 14:49	01/18/18 19:22	20
Acenaphthene	20	J	100	8.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Acenaphthylene	460		100	7.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
Acetophenone	14	J	100	11	ug/L		01/11/18 14:49	01/18/18 19:22	20
Anthracene	25	J	100	5.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
Atrazine	ND		100	9.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzaldehyde	ND		100	5.3	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzo(a)anthracene	8.4	J	100	7.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzo(a)pyrene	ND		100	9.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzo(b)fluoranthene	ND		100	6.8	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzo(g,h,i)perylene	ND		100	7.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
Benzo(k)fluoranthene	ND		100	15	ug/L		01/11/18 14:49	01/18/18 19:22	20

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		100	7.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
Bis(2-chloroethyl)ether	ND		100	8.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
Bis(2-ethylhexyl) phthalate	ND		100	44	ug/L		01/11/18 14:49	01/18/18 19:22	20
Butyl benzyl phthalate	ND		100	20	ug/L		01/11/18 14:49	01/18/18 19:22	20
Caprolactam	ND		100	44	ug/L		01/11/18 14:49	01/18/18 19:22	20
Carbazole	50	J	100	6.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
Chrysene	ND		100	6.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
Di-n-butyl phthalate	ND		100	6.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Di-n-octyl phthalate	ND		100	9.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
Dibenz(a,h)anthracene	ND		100	8.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
Dibenzofuran	12	J	200	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
Diethyl phthalate	ND		100	4.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
Dimethyl phthalate	ND		100	7.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Fluoranthene	20	J	100	8.0	ug/L		01/11/18 14:49	01/18/18 19:22	20
Fluorene	78	J	100	7.2	ug/L		01/11/18 14:49	01/18/18 19:22	20
Hexachlorobenzene	ND		100	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
Hexachlorobutadiene	ND		100	14	ug/L		01/11/18 14:49	01/18/18 19:22	20
Hexachlorocyclopentadiene	ND		100	12	ug/L		01/11/18 14:49	01/18/18 19:22	20
Hexachloroethane	ND		100	12	ug/L		01/11/18 14:49	01/18/18 19:22	20
Indeno(1,2,3-cd)pyrene	ND		100	9.4	ug/L		01/11/18 14:49	01/18/18 19:22	20
Isophorone	ND		100	8.6	ug/L		01/11/18 14:49	01/18/18 19:22	20
N-Nitrosodi-n-propylamine	ND		100	11	ug/L		01/11/18 14:49	01/18/18 19:22	20
N-Nitrosodiphenylamine	ND		100	10	ug/L		01/11/18 14:49	01/18/18 19:22	20
Naphthalene	4200	E	100	15	ug/L		01/11/18 14:49	01/18/18 19:22	20
Nitrobenzene	ND		100	5.8	ug/L		01/11/18 14:49	01/18/18 19:22	20
Pentachlorophenol	ND		200	44	ug/L		01/11/18 14:49	01/18/18 19:22	20
Phenanthrene	120		100	8.8	ug/L		01/11/18 14:49	01/18/18 19:22	20
Phenol	15	J	100	7.8	ug/L		01/11/18 14:49	01/18/18 19:22	20
Pyrene	30	J	100	6.8	ug/L		01/11/18 14:49	01/18/18 19:22	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	121	X	41 - 120	01/11/18 14:49	01/18/18 19:22	20
2-Fluorobiphenyl	83		48 - 120	01/11/18 14:49	01/18/18 19:22	20
2-Fluorophenol	68		35 - 120	01/11/18 14:49	01/18/18 19:22	20
Nitrobenzene-d5	68		46 - 120	01/11/18 14:49	01/18/18 19:22	20
p-Terphenyl-d14	67		59 - 136	01/11/18 14:49	01/18/18 19:22	20
Phenol-d5	43		22 - 120	01/11/18 14:49	01/18/18 19:22	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2500	330	ug/L		01/11/18 14:49	01/19/18 12:24	500
bis (2-chloroisopropyl) ether	ND		2500	260	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4,5-Trichlorophenol	ND		2500	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4,6-Trichlorophenol	ND		2500	310	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4-Dichlorophenol	ND		2500	260	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4-Dimethylphenol	ND		2500	250	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4-Dinitrophenol	ND		5000	1100	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,4-Dinitrotoluene	ND		2500	220	ug/L		01/11/18 14:49	01/19/18 12:24	500
2,6-Dinitrotoluene	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
2-Chloronaphthalene	ND		2500	230	ug/L		01/11/18 14:49	01/19/18 12:24	500

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2500	270	ug/L		01/11/18 14:49	01/19/18 12:24	500
2-Methylnaphthalene	720	J	2500	300	ug/L		01/11/18 14:49	01/19/18 12:24	500
2-Methylphenol	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
2-Nitroaniline	ND		5000	210	ug/L		01/11/18 14:49	01/19/18 12:24	500
2-Nitrophenol	ND		2500	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
3,3'-Dichlorobenzidine	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
3-Nitroaniline	ND		5000	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
4,6-Dinitro-2-methylphenol	ND		5000	1100	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Bromophenyl phenyl ether	ND		2500	230	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Chloro-3-methylphenol	ND		2500	230	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Chloroaniline	ND		2500	300	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Chlorophenyl phenyl ether	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Methylphenol	ND		5000	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Nitroaniline	ND		5000	130	ug/L		01/11/18 14:49	01/19/18 12:24	500
4-Nitrophenol	ND		5000	760	ug/L		01/11/18 14:49	01/19/18 12:24	500
Acenaphthene	ND		2500	210	ug/L		01/11/18 14:49	01/19/18 12:24	500
Acenaphthylene	410	J	2500	190	ug/L		01/11/18 14:49	01/19/18 12:24	500
Acetophenone	ND		2500	270	ug/L		01/11/18 14:49	01/19/18 12:24	500
Anthracene	ND		2500	140	ug/L		01/11/18 14:49	01/19/18 12:24	500
Atrazine	ND		2500	230	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzaldehyde	ND		2500	130	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzo(a)anthracene	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzo(a)pyrene	ND		2500	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzo(b)fluoranthene	ND		2500	170	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzo(g,h,i)perylene	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
Benzo(k)fluoranthene	ND		2500	370	ug/L		01/11/18 14:49	01/19/18 12:24	500
Bis(2-chloroethoxy)methane	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
Bis(2-chloroethyl)ether	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
Bis(2-ethylhexyl) phthalate	ND		2500	1100	ug/L		01/11/18 14:49	01/19/18 12:24	500
Butyl benzyl phthalate	ND		2500	500	ug/L		01/11/18 14:49	01/19/18 12:24	500
Caprolactam	ND		2500	1100	ug/L		01/11/18 14:49	01/19/18 12:24	500
Carbazole	ND		2500	150	ug/L		01/11/18 14:49	01/19/18 12:24	500
Chrysene	ND		2500	170	ug/L		01/11/18 14:49	01/19/18 12:24	500
Di-n-butyl phthalate	ND		2500	160	ug/L		01/11/18 14:49	01/19/18 12:24	500
Di-n-octyl phthalate	ND		2500	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
Dibenz(a,h)anthracene	ND		2500	210	ug/L		01/11/18 14:49	01/19/18 12:24	500
Dibenzofuran	ND		5000	260	ug/L		01/11/18 14:49	01/19/18 12:24	500
Diethyl phthalate	ND		2500	110	ug/L		01/11/18 14:49	01/19/18 12:24	500
Dimethyl phthalate	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
Fluoranthene	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
Fluorene	ND		2500	180	ug/L		01/11/18 14:49	01/19/18 12:24	500
Hexachlorobenzene	ND		2500	260	ug/L		01/11/18 14:49	01/19/18 12:24	500
Hexachlorobutadiene	ND		2500	340	ug/L		01/11/18 14:49	01/19/18 12:24	500
Hexachlorocyclopentadiene	ND		2500	300	ug/L		01/11/18 14:49	01/19/18 12:24	500
Hexachloroethane	ND		2500	300	ug/L		01/11/18 14:49	01/19/18 12:24	500
Indeno(1,2,3-cd)pyrene	ND		2500	240	ug/L		01/11/18 14:49	01/19/18 12:24	500
Isophorone	ND		2500	220	ug/L		01/11/18 14:49	01/19/18 12:24	500
N-Nitrosodi-n-propylamine	ND		2500	270	ug/L		01/11/18 14:49	01/19/18 12:24	500
N-Nitrosodiphenylamine	ND		2500	260	ug/L		01/11/18 14:49	01/19/18 12:24	500

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	8600		2500	380	ug/L		01/11/18 14:49	01/19/18 12:24	500
Nitrobenzene	ND		2500	150	ug/L		01/11/18 14:49	01/19/18 12:24	500
Pentachlorophenol	ND		5000	1100	ug/L		01/11/18 14:49	01/19/18 12:24	500
Phenanthrene	ND		2500	220	ug/L		01/11/18 14:49	01/19/18 12:24	500
Phenol	ND		2500	200	ug/L		01/11/18 14:49	01/19/18 12:24	500
Pyrene	ND		2500	170	ug/L		01/11/18 14:49	01/19/18 12:24	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	0	X	41 - 120	01/11/18 14:49	01/19/18 12:24	500
2-Fluorobiphenyl	82		48 - 120	01/11/18 14:49	01/19/18 12:24	500
2-Fluorophenol	0	X	35 - 120	01/11/18 14:49	01/19/18 12:24	500
Nitrobenzene-d5	70		46 - 120	01/11/18 14:49	01/19/18 12:24	500
p-Terphenyl-d14	53	X	59 - 136	01/11/18 14:49	01/19/18 12:24	500
Phenol-d5	47		22 - 120	01/11/18 14:49	01/19/18 12:24	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060	0.0017	mg/L		01/11/18 07:25	01/11/18 18:57	1
Arsenic	ND		0.015	0.0056	mg/L		01/11/18 07:25	01/11/18 18:57	1
Barium	0.018		0.0020	0.00070	mg/L		01/11/18 07:25	01/11/18 18:57	1
Cadmium	ND		0.0020	0.00050	mg/L		01/11/18 07:25	01/11/18 18:57	1
Chromium	ND		0.0040	0.0010	mg/L		01/11/18 07:25	01/11/18 18:57	1
Lead	ND		0.010	0.0030	mg/L		01/11/18 07:25	01/11/18 18:57	1
Selenium	ND		0.025	0.0087	mg/L		01/11/18 07:25	01/11/18 18:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/11/18 12:40	01/11/18 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/L		01/15/18 05:34	01/15/18 14:47	1
Sulfide, Reactive	ND		10.0	10.0	mg/L		01/15/18 05:34	01/15/18 12:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			01/11/18 08:01	1
pH	7.83	HF	0.100	0.100	SU			01/12/18 11:20	1
Temperature	20.7	HF	0.00100	0.00100	Degrees C			01/12/18 11:20	1

Client Sample ID: RW-D PPE

Date Collected: 01/08/18 13:05

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-2

Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0095	J	0.020	0.0082	mg/L			01/17/18 15:02	20
Carbon tetrachloride	ND		0.020	0.0054	mg/L			01/17/18 15:02	20
Chlorobenzene	ND		0.020	0.015	mg/L			01/17/18 15:02	20
Chloroform	ND		0.020	0.0068	mg/L			01/17/18 15:02	20
1,2-Dichloroethane	ND		0.020	0.0042	mg/L			01/17/18 15:02	20
1,1-Dichloroethene	ND		0.020	0.0058	mg/L			01/17/18 15:02	20

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D PPE

Lab Sample ID: 460-148055-2

Date Collected: 01/08/18 13:05

Matrix: Solid

Date Received: 01/08/18 19:20

Method: 8260C - TCLP Volatiles - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		0.10	0.026	mg/L			01/17/18 15:02	20
Tetrachloroethene	ND		0.020	0.0072	mg/L			01/17/18 15:02	20
Trichloroethene	ND		0.020	0.0092	mg/L			01/17/18 15:02	20
Vinyl chloride	ND		0.020	0.018	mg/L			01/17/18 15:02	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					01/17/18 15:02	20
Toluene-d8 (Surr)	108		80 - 120					01/17/18 15:02	20
4-Bromofluorobenzene (Surr)	111		73 - 120					01/17/18 15:02	20
Dibromofluoromethane (Surr)	108		75 - 123					01/17/18 15:02	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		01/16/18 09:12	01/17/18 19:35	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		01/16/18 09:12	01/17/18 19:35	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		01/16/18 09:12	01/17/18 19:35	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		01/16/18 09:12	01/17/18 19:35	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		01/16/18 09:12	01/17/18 19:35	1
3-Methylphenol	ND		0.010	0.00040	mg/L		01/16/18 09:12	01/17/18 19:35	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		01/16/18 09:12	01/17/18 19:35	1
4-Methylphenol	ND		0.010	0.00036	mg/L		01/16/18 09:12	01/17/18 19:35	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		01/16/18 09:12	01/17/18 19:35	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		01/16/18 09:12	01/17/18 19:35	1
Pyridine	ND		0.025	0.00041	mg/L		01/16/18 09:12	01/17/18 19:35	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		01/16/18 09:12	01/17/18 19:35	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		01/16/18 09:12	01/17/18 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		41 - 120				01/16/18 09:12	01/17/18 19:35	1
2-Fluorobiphenyl	85		48 - 120				01/16/18 09:12	01/17/18 19:35	1
2-Fluorophenol	51		35 - 120				01/16/18 09:12	01/17/18 19:35	1
Nitrobenzene-d5	78		46 - 120				01/16/18 09:12	01/17/18 19:35	1
p-Terphenyl-d14	94		59 - 136				01/16/18 09:12	01/17/18 19:35	1
Phenol-d5	35		22 - 120				01/16/18 09:12	01/17/18 19:35	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		01/16/18 09:48	01/18/18 05:15	1
Barium	ND		1.0	0.10	mg/L		01/16/18 09:48	01/18/18 05:15	1
Cadmium	ND		0.0020	0.00050	mg/L		01/16/18 09:48	01/18/18 05:15	1
Chromium	ND		0.020	0.010	mg/L		01/16/18 09:48	01/18/18 05:15	1
Lead	ND		0.020	0.0030	mg/L		01/16/18 09:48	01/18/18 05:15	1
Selenium	ND		0.025	0.0087	mg/L		01/16/18 09:48	01/18/18 05:15	1
Silver	ND		0.0060	0.0017	mg/L		01/16/18 09:48	01/18/18 05:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/16/18 13:10	01/16/18 16:29	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D PPE

Lab Sample ID: 460-148055-2

Date Collected: 01/08/18 13:05

Matrix: Solid

Date Received: 01/08/18 19:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		9.8	9.8	mg/Kg		01/15/18 05:34	01/15/18 14:47	1
Sulfide, Reactive	ND		9.8	9.8	mg/Kg		01/15/18 05:34	01/15/18 12:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			01/11/18 08:01	1
pH	7.1	HF	0.1	0.1	SU			01/16/18 10:03	1
Temperature	20.5	HF	0.001	0.001	Degrees C			01/16/18 10:03	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
LCS 480-396097/5	Lab Control Sample	99	107	115	108
MB 480-396097/7	Method Blank	100	107	111	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
460-148055-2	RW-D PPE	102	108	111	108
460-148055-2 MS	RW-D PPE	95	107	117	107
460-148055-2 MSD	RW-D PPE	101	106	112	110
LB 480-395779/1-A	Method Blank	99	106	108	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
460-148055-1	RW-D	90	96	102	101
460-148055-1 - DL	RW-D	104	95	94	111
LCS 480-395370/5	Lab Control Sample	97	99	101	106
LCS 480-395565/5	Lab Control Sample	102	97	98	113
MB 480-395370/7	Method Blank	95	98	100	104
MB 480-395565/7	Method Blank	103	97	98	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

TestAmerica Edison

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
LCS 480-395928/2-A	Lab Control Sample	90	81	46	79	97	34
LCSD 480-395928/3-A	Lab Control Sample Dup	84	77	43	71	89	30
MB 480-395928/1-A	Method Blank	69	84	44	80	92	31

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
460-148055-2	RW-D PPE	85	85	51	78	94	35
LB 480-395773/1-C	Method Blank	82	85	47	84	99	31

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
460-148055-1	RW-D	121 X	83	68	68	67	43
460-148055-1 - DL	RW-D	0 X	82	0 X	70	53 X	47
LCS 480-395494/2-A	Lab Control Sample	91	85	65	83	98	53
MB 480-395494/1-A	Method Blank	78	83	64	75	101	48

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-396097/7

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/17/18 11:26	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/17/18 11:26	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/17/18 11:26	1
Benzene	ND		0.0010	0.00041	mg/L			01/17/18 11:26	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/17/18 11:26	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/17/18 11:26	1
Chloroform	ND		0.0010	0.00034	mg/L			01/17/18 11:26	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/17/18 11:26	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/17/18 11:26	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/17/18 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/17/18 11:26	1
Toluene-d8 (Surr)	107		80 - 120		01/17/18 11:26	1
4-Bromofluorobenzene (Surr)	111		73 - 120		01/17/18 11:26	1
Dibromofluoromethane (Surr)	110		75 - 123		01/17/18 11:26	1

Lab Sample ID: LCS 480-396097/5

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0240		mg/L		96	66 - 127
1,2-Dichloroethane	0.0250	0.0229		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.123		mg/L		98	57 - 140
Benzene	0.0250	0.0244		mg/L		98	71 - 124
Carbon tetrachloride	0.0250	0.0238		mg/L		95	72 - 134
Chlorobenzene	0.0250	0.0252		mg/L		101	80 - 120
Chloroform	0.0250	0.0243		mg/L		97	73 - 127
Tetrachloroethene	0.0250	0.0275		mg/L		110	74 - 122
Trichloroethene	0.0250	0.0238		mg/L		95	74 - 123
Vinyl chloride	0.0250	0.0244		mg/L		97	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
Toluene-d8 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Lab Sample ID: LB 480-395779/1-A

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/17/18 12:20	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/17/18 12:20	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/17/18 12:20	10

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-395779/1-A

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			01/17/18 12:20	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/17/18 12:20	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/17/18 12:20	10
Chloroform	ND		0.010	0.0034	mg/L			01/17/18 12:20	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/17/18 12:20	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/17/18 12:20	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/17/18 12:20	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		01/17/18 12:20	10
Toluene-d8 (Surr)	106		80 - 120		01/17/18 12:20	10
4-Bromofluorobenzene (Surr)	108		73 - 120		01/17/18 12:20	10
Dibromofluoromethane (Surr)	110		75 - 123		01/17/18 12:20	10

Lab Sample ID: 460-148055-2 MS

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: RW-D PPE

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		0.500	0.524		mg/L		105	66 - 127
1,2-Dichloroethane	ND		0.500	0.471		mg/L		94	75 - 120
2-Butanone (MEK)	ND		2.50	2.18		mg/L		87	57 - 140
Benzene	0.0095	J	0.500	0.510		mg/L		100	71 - 124
Carbon tetrachloride	ND		0.500	0.515		mg/L		103	72 - 134
Chlorobenzene	ND		0.500	0.536		mg/L		107	80 - 120
Chloroform	ND		0.500	0.493		mg/L		99	73 - 127
Tetrachloroethene	ND		0.500	0.584		mg/L		117	74 - 122
Trichloroethene	ND		0.500	0.501		mg/L		100	74 - 123
Vinyl chloride	ND		0.500	0.494		mg/L		99	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
Toluene-d8 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	117		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Lab Sample ID: 460-148055-2 MSD

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: RW-D PPE

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		0.500	0.579		mg/L		116	66 - 127	10	16
1,2-Dichloroethane	ND		0.500	0.494		mg/L		99	75 - 120	5	20
2-Butanone (MEK)	ND		2.50	2.36		mg/L		94	57 - 140	8	20
Benzene	0.0095	J	0.500	0.545		mg/L		107	71 - 124	7	13
Carbon tetrachloride	ND		0.500	0.543		mg/L		109	72 - 134	5	15
Chlorobenzene	ND		0.500	0.537		mg/L		107	80 - 120	0	25
Chloroform	ND		0.500	0.526		mg/L		105	73 - 127	6	20

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: 460-148055-2 MSD

Matrix: Solid

Analysis Batch: 396097

Client Sample ID: RW-D PPE

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		0.500	0.577		mg/L		115	74 - 122	1	20
Trichloroethene	ND		0.500	0.513		mg/L		103	74 - 123	2	16
Vinyl chloride	ND		0.500	0.506		mg/L		101	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Dibromofluoromethane (Surr)	110		75 - 123

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

Lab Sample ID: MB 480-395370/7

Matrix: Water

Analysis Batch: 395370

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/11/18 11:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/11/18 11:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/11/18 11:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/11/18 11:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/11/18 11:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/11/18 11:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/11/18 11:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/11/18 11:57	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/11/18 11:57	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/11/18 11:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/11/18 11:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/11/18 11:57	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/11/18 11:57	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/11/18 11:57	1
2-Hexanone	ND		5.0	1.2	ug/L			01/11/18 11:57	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/11/18 11:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/11/18 11:57	1
Acetone	ND		10	3.0	ug/L			01/11/18 11:57	1
Benzene	ND		1.0	0.41	ug/L			01/11/18 11:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/11/18 11:57	1
Bromoform	ND		1.0	0.26	ug/L			01/11/18 11:57	1
Bromomethane	ND		1.0	0.69	ug/L			01/11/18 11:57	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/11/18 11:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/11/18 11:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/11/18 11:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/11/18 11:57	1
Chloroethane	ND		1.0	0.32	ug/L			01/11/18 11:57	1
Chloroform	ND		1.0	0.34	ug/L			01/11/18 11:57	1
Chloromethane	ND		1.0	0.35	ug/L			01/11/18 11:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/11/18 11:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/11/18 11:57	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

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

Lab Sample ID: MB 480-395370/7

Matrix: Water

Analysis Batch: 395370

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			01/11/18 11:57	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/11/18 11:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/11/18 11:57	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/11/18 11:57	1
Methyl acetate	ND		2.5	1.3	ug/L			01/11/18 11:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/11/18 11:57	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/11/18 11:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/11/18 11:57	1
Styrene	ND		1.0	0.73	ug/L			01/11/18 11:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/11/18 11:57	1
Toluene	ND		1.0	0.51	ug/L			01/11/18 11:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/11/18 11:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/11/18 11:57	1
Trichloroethene	ND		1.0	0.46	ug/L			01/11/18 11:57	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/11/18 11:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/11/18 11:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/11/18 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		01/11/18 11:57	1
Toluene-d8 (Surr)	98		80 - 120		01/11/18 11:57	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/11/18 11:57	1
Dibromofluoromethane (Surr)	104		75 - 123		01/11/18 11:57	1

Lab Sample ID: LCS 480-395370/5

Matrix: Water

Analysis Batch: 395370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.5		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.0		ug/L		84	76 - 120
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		113	61 - 148
1,1-Dichloroethane	25.0	26.3		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.8		ug/L		71	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.9		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	26.1		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 120
2-Hexanone	125	100		ug/L		80	65 - 127
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		81	71 - 125
Acetone	125	109		ug/L		88	56 - 142

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

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

Lab Sample ID: LCS 480-395370/5

Matrix: Water

Analysis Batch: 395370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.5		ug/L		106	71 - 124
Bromodichloromethane	25.0	28.3		ug/L		113	80 - 122
Bromoform	25.0	24.4		ug/L		98	61 - 132
Bromomethane	25.0	30.2		ug/L		121	55 - 144
Carbon disulfide	25.0	27.8		ug/L		111	59 - 134
Carbon tetrachloride	25.0	27.3		ug/L		109	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Dibromochloromethane	25.0	25.4		ug/L		102	75 - 125
Chloroethane	25.0	28.4		ug/L		114	69 - 136
Chloroform	25.0	28.2		ug/L		113	73 - 127
Chloromethane	25.0	29.9		ug/L		120	68 - 124
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	74 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	74 - 124
Cyclohexane	25.0	25.1		ug/L		100	59 - 135
Dichlorodifluoromethane	25.0	29.3		ug/L		117	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		93	77 - 122
Methyl acetate	50.0	43.0		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	25.0	25.7		ug/L		103	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	73 - 127
Trichloroethene	25.0	28.3		ug/L		113	74 - 123
Trichlorofluoromethane	25.0	28.4		ug/L		114	62 - 150
Vinyl chloride	25.0	29.9		ug/L		120	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: MB 480-395565/7

Matrix: Water

Analysis Batch: 395565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/18 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/18 15:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/18 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/18 15:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/18 15:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/18 15:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/18 15:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/18 15:00	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

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

Lab Sample ID: MB 480-395565/7

Matrix: Water

Analysis Batch: 395565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/18 15:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/18 15:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/18 15:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/18 15:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/18 15:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/18 15:00	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/18 15:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/18 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/18 15:00	1
Acetone	ND		10	3.0	ug/L			01/12/18 15:00	1
Benzene	ND		1.0	0.41	ug/L			01/12/18 15:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/18 15:00	1
Bromoform	ND		1.0	0.26	ug/L			01/12/18 15:00	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/18 15:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/18 15:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/18 15:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/18 15:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/18 15:00	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/18 15:00	1
Chloroform	ND		1.0	0.34	ug/L			01/12/18 15:00	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/18 15:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/12/18 15:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/18 15:00	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/18 15:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/18 15:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/18 15:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/18 15:00	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/18 15:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/18 15:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/18 15:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/18 15:00	1
Styrene	ND		1.0	0.73	ug/L			01/12/18 15:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/12/18 15:00	1
Toluene	ND		1.0	0.51	ug/L			01/12/18 15:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/18 15:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/18 15:00	1
Trichloroethene	ND		1.0	0.46	ug/L			01/12/18 15:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/18 15:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/18 15:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/18 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/12/18 15:00	1
Toluene-d8 (Surr)	97		80 - 120		01/12/18 15:00	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/12/18 15:00	1
Dibromofluoromethane (Surr)	110		75 - 123		01/12/18 15:00	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

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

Lab Sample ID: LCS 480-395565/5

Matrix: Water

Analysis Batch: 395565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.3		ug/L		85	76 - 120
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	61 - 148
1,1-Dichloroethane	25.0	26.3		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	28.5		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.6		ug/L		70	56 - 134
1,2-Dibromoethane	25.0	24.2		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	25.9		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 120
2-Hexanone	125	104		ug/L		83	65 - 127
2-Butanone (MEK)	125	114		ug/L		91	57 - 140
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	71 - 125
Acetone	125	114		ug/L		91	56 - 142
Benzene	25.0	26.5		ug/L		106	71 - 124
Bromodichloromethane	25.0	28.7		ug/L		115	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	30.8		ug/L		123	55 - 144
Carbon disulfide	25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	25.0	27.1		ug/L		108	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Dibromochloromethane	25.0	25.0		ug/L		100	75 - 125
Chloroethane	25.0	30.8		ug/L		123	69 - 136
Chloroform	25.0	28.3		ug/L		113	73 - 127
Chloromethane	25.0	29.7		ug/L		119	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	74 - 124
Cyclohexane	25.0	24.6		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	29.6		ug/L		118	59 - 135
Ethylbenzene	25.0	23.2		ug/L		93	77 - 123
Isopropylbenzene	25.0	22.6		ug/L		91	77 - 122
Methyl acetate	50.0	44.8		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	25.9		ug/L		104	77 - 120
Methylcyclohexane	25.0	27.4		ug/L		110	68 - 134
Methylene Chloride	25.0	27.0		ug/L		108	75 - 124
Styrene	25.0	24.1		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	23.6		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	28.9		ug/L		116	73 - 127
Trichloroethene	25.0	28.4		ug/L		114	74 - 123
Trichlorofluoromethane	25.0	28.5		ug/L		114	62 - 150
Vinyl chloride	25.0	28.8		ug/L		115	65 - 133

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

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

Lab Sample ID: LCS 480-395565/5

Matrix: Water

Analysis Batch: 395565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	113		75 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-395494/1-A

Matrix: Water

Analysis Batch: 396374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		01/11/18 14:49	01/18/18 16:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		01/11/18 14:49	01/18/18 16:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Nitroaniline	ND		10	0.42	ug/L		01/11/18 14:49	01/18/18 16:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		01/11/18 14:49	01/18/18 16:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/11/18 14:49	01/18/18 16:56	1
3-Nitroaniline	ND		10	0.48	ug/L		01/11/18 14:49	01/18/18 16:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Methylphenol	ND		10	0.36	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Nitroaniline	ND		10	0.25	ug/L		01/11/18 14:49	01/18/18 16:56	1
4-Nitrophenol	ND		10	1.5	ug/L		01/11/18 14:49	01/18/18 16:56	1
Acenaphthene	ND		5.0	0.41	ug/L		01/11/18 14:49	01/18/18 16:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		01/11/18 14:49	01/18/18 16:56	1
Acetophenone	ND		5.0	0.54	ug/L		01/11/18 14:49	01/18/18 16:56	1
Anthracene	ND		5.0	0.28	ug/L		01/11/18 14:49	01/18/18 16:56	1
Atrazine	ND		5.0	0.46	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		01/11/18 14:49	01/18/18 16:56	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		01/11/18 14:49	01/18/18 16:56	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-395494/1-A

Matrix: Water

Analysis Batch: 396374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		01/11/18 14:49	01/18/18 16:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		01/11/18 14:49	01/18/18 16:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		01/11/18 14:49	01/18/18 16:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		01/11/18 14:49	01/18/18 16:56	1
Caprolactam	ND		5.0	2.2	ug/L		01/11/18 14:49	01/18/18 16:56	1
Carbazole	ND		5.0	0.30	ug/L		01/11/18 14:49	01/18/18 16:56	1
Chrysene	ND		5.0	0.33	ug/L		01/11/18 14:49	01/18/18 16:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		01/11/18 14:49	01/18/18 16:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		01/11/18 14:49	01/18/18 16:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		01/11/18 14:49	01/18/18 16:56	1
Dibenzofuran	ND		10	0.51	ug/L		01/11/18 14:49	01/18/18 16:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		01/11/18 14:49	01/18/18 16:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		01/11/18 14:49	01/18/18 16:56	1
Fluoranthene	ND		5.0	0.40	ug/L		01/11/18 14:49	01/18/18 16:56	1
Fluorene	ND		5.0	0.36	ug/L		01/11/18 14:49	01/18/18 16:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		01/11/18 14:49	01/18/18 16:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		01/11/18 14:49	01/18/18 16:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		01/11/18 14:49	01/18/18 16:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		01/11/18 14:49	01/18/18 16:56	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		01/11/18 14:49	01/18/18 16:56	1
Isophorone	ND		5.0	0.43	ug/L		01/11/18 14:49	01/18/18 16:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		01/11/18 14:49	01/18/18 16:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		01/11/18 14:49	01/18/18 16:56	1
Naphthalene	ND		5.0	0.76	ug/L		01/11/18 14:49	01/18/18 16:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		01/11/18 14:49	01/18/18 16:56	1
Pentachlorophenol	ND		10	2.2	ug/L		01/11/18 14:49	01/18/18 16:56	1
Phenanthrene	ND		5.0	0.44	ug/L		01/11/18 14:49	01/18/18 16:56	1
Phenol	ND		5.0	0.39	ug/L		01/11/18 14:49	01/18/18 16:56	1
Pyrene	ND		5.0	0.34	ug/L		01/11/18 14:49	01/18/18 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		41 - 120	01/11/18 14:49	01/18/18 16:56	1
2-Fluorobiphenyl	83		48 - 120	01/11/18 14:49	01/18/18 16:56	1
2-Fluorophenol	64		35 - 120	01/11/18 14:49	01/18/18 16:56	1
Nitrobenzene-d5	75		46 - 120	01/11/18 14:49	01/18/18 16:56	1
p-Terphenyl-d14	101		59 - 136	01/11/18 14:49	01/18/18 16:56	1
Phenol-d5	48		22 - 120	01/11/18 14:49	01/18/18 16:56	1

Lab Sample ID: LCS 480-395494/2-A

Matrix: Water

Analysis Batch: 396374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	32.0	27.2		ug/L		85	59 - 120
bis (2-chloroisopropyl) ether	32.0	25.7		ug/L		80	21 - 136
2,4-Dichlorophenol	32.0	26.8		ug/L		84	63 - 120
2,4-Dimethylphenol	32.0	28.5		ug/L		89	47 - 120
2,4-Dinitrophenol	64.0	56.8		ug/L		89	31 - 137

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-395494/2-A

Matrix: Water

Analysis Batch: 396374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	32.0	30.7		ug/L		96	69 - 120
2,6-Dinitrotoluene	32.0	29.6		ug/L		92	68 - 120
2-Chloronaphthalene	32.0	27.0		ug/L		84	58 - 120
2-Chlorophenol	32.0	25.7		ug/L		80	48 - 120
2,4,5-Trichlorophenol	32.0	30.0		ug/L		94	65 - 126
2-Methylnaphthalene	32.0	27.4		ug/L		86	59 - 120
2,4,6-Trichlorophenol	32.0	29.8		ug/L		93	64 - 120
2-Methylphenol	32.0	26.2		ug/L		82	39 - 120
2-Nitroaniline	32.0	29.1		ug/L		91	54 - 127
2-Nitrophenol	32.0	26.2		ug/L		82	52 - 125
3,3'-Dichlorobenzidine	64.0	67.3		ug/L		105	49 - 135
3-Nitroaniline	32.0	26.4		ug/L		82	51 - 120
4,6-Dinitro-2-methylphenol	64.0	59.6		ug/L		93	46 - 136
4-Bromophenyl phenyl ether	32.0	29.6		ug/L		92	65 - 120
4-Chloro-3-methylphenol	32.0	29.9		ug/L		93	61 - 123
4-Chloroaniline	32.0	22.1		ug/L		69	30 - 120
4-Chlorophenyl phenyl ether	32.0	29.5		ug/L		92	62 - 120
4-Methylphenol	32.0	25.8		ug/L		81	29 - 131
4-Nitroaniline	32.0	30.5		ug/L		95	65 - 120
4-Nitrophenol	64.0	47.9		ug/L		75	45 - 120
Acenaphthene	32.0	28.1		ug/L		88	60 - 120
Acenaphthylene	32.0	28.6		ug/L		89	63 - 120
Acetophenone	32.0	27.8		ug/L		87	45 - 120
Anthracene	32.0	29.9		ug/L		93	67 - 120
Atrazine	64.0	70.1		ug/L		109	71 - 130
Benzaldehyde	64.0	55.6		ug/L		87	10 - 140
Benzo(a)anthracene	32.0	30.4		ug/L		95	70 - 121
Benzo(a)pyrene	32.0	29.6		ug/L		93	60 - 123
Benzo(b)fluoranthene	32.0	32.9		ug/L		103	66 - 126
Benzo(g,h,i)perylene	32.0	31.0		ug/L		97	66 - 150
Benzo(k)fluoranthene	32.0	31.5		ug/L		98	65 - 124
Bis(2-chloroethoxy)methane	32.0	27.3		ug/L		85	50 - 128
Bis(2-chloroethyl)ether	32.0	26.3		ug/L		82	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	31.1		ug/L		97	63 - 139
Butyl benzyl phthalate	32.0	31.6		ug/L		99	70 - 129
Caprolactam	64.0	25.4		ug/L		40	22 - 120
Carbazole	32.0	35.7		ug/L		112	66 - 123
Chrysene	32.0	30.4		ug/L		95	69 - 120
Di-n-butyl phthalate	32.0	31.4		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	31.0		ug/L		97	63 - 140
Dibenz(a,h)anthracene	32.0	29.5		ug/L		92	65 - 135
Dibenzofuran	32.0	28.4		ug/L		89	66 - 120
Diethyl phthalate	32.0	31.3		ug/L		98	59 - 127
Dimethyl phthalate	32.0	30.8		ug/L		96	68 - 120
Fluoranthene	32.0	31.4		ug/L		98	69 - 126
Fluorene	32.0	29.5		ug/L		92	66 - 120
Hexachlorobenzene	32.0	29.6		ug/L		92	61 - 120
Hexachlorobutadiene	32.0	21.3		ug/L		67	35 - 120

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-395494/2-A

Matrix: Water

Analysis Batch: 396374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	32.0	16.2		ug/L		51	31 - 120
Hexachloroethane	32.0	21.6		ug/L		67	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	29.2		ug/L		91	69 - 146
Isophorone	32.0	29.2		ug/L		91	55 - 120
N-Nitrosodi-n-propylamine	32.0	28.7		ug/L		90	32 - 140
Naphthalene	32.0	26.6		ug/L		83	57 - 120
Nitrobenzene	32.0	27.0		ug/L		84	53 - 123
Pentachlorophenol	64.0	55.8		ug/L		87	29 - 136
Phenanthrene	32.0	30.3		ug/L		95	68 - 120
Phenol	32.0	17.2		ug/L		54	17 - 120
Pyrene	32.0	31.1		ug/L		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	91		41 - 120
2-Fluorobiphenyl	85		48 - 120
2-Fluorophenol	65		35 - 120
Nitrobenzene-d5	83		46 - 120
p-Terphenyl-d14	98		59 - 136
Phenol-d5	53		22 - 120

Lab Sample ID: MB 480-395928/1-A

Matrix: Solid

Analysis Batch: 396235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		01/16/18 09:12	01/17/18 17:48	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		01/16/18 09:12	01/17/18 17:48	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		01/16/18 09:12	01/17/18 17:48	1
Pyridine	ND		0.0063	0.00010	mg/L		01/16/18 09:12	01/17/18 17:48	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		01/16/18 09:12	01/17/18 17:48	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		01/16/18 09:12	01/17/18 17:48	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		01/16/18 09:12	01/17/18 17:48	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		01/16/18 09:12	01/17/18 17:48	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		01/16/18 09:12	01/17/18 17:48	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		01/16/18 09:12	01/17/18 17:48	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		01/16/18 09:12	01/17/18 17:48	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		01/16/18 09:12	01/17/18 17:48	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		01/16/18 09:12	01/17/18 17:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		41 - 120	01/16/18 09:12	01/17/18 17:48	1
2-Fluorobiphenyl	84		48 - 120	01/16/18 09:12	01/17/18 17:48	1
2-Fluorophenol	44		35 - 120	01/16/18 09:12	01/17/18 17:48	1
Nitrobenzene-d5	80		46 - 120	01/16/18 09:12	01/17/18 17:48	1
p-Terphenyl-d14	92		59 - 136	01/16/18 09:12	01/17/18 17:48	1
Phenol-d5	31		22 - 120	01/16/18 09:12	01/17/18 17:48	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-395928/2-A

Matrix: Solid

Analysis Batch: 396235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0312		mg/L		62	51 - 120
3-Methylphenol	0.0500	0.0350		mg/L		70	39 - 120
2,4-Dinitrotoluene	0.0500	0.0472		mg/L		94	69 - 120
Pyridine	0.100	0.0450		mg/L		45	10 - 120
2,4,5-Trichlorophenol	0.0500	0.0437		mg/L		87	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0436		mg/L		87	64 - 120
2-Methylphenol	0.0500	0.0355		mg/L		71	39 - 120
4-Methylphenol	0.0500	0.0350		mg/L		70	29 - 131
Hexachlorobenzene	0.0500	0.0460		mg/L		92	61 - 120
Hexachlorobutadiene	0.0500	0.0315		mg/L		63	35 - 120
Hexachloroethane	0.0500	0.0306		mg/L		61	43 - 120
Nitrobenzene	0.0500	0.0408		mg/L		82	53 - 123
Pentachlorophenol	0.100	0.0905		mg/L		91	29 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	90		41 - 120
2-Fluorobiphenyl	81		48 - 120
2-Fluorophenol	46		35 - 120
Nitrobenzene-d5	79		46 - 120
p-Terphenyl-d14	97		59 - 136
Phenol-d5	34		22 - 120

Lab Sample ID: LCSD 480-395928/3-A

Matrix: Solid

Analysis Batch: 396235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 395928

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0309		mg/L		62	51 - 120	1	36
3-Methylphenol	0.0500	0.0322		mg/L		64	39 - 120	8	30
2,4-Dinitrotoluene	0.0500	0.0445		mg/L		89	69 - 120	6	20
Pyridine	0.100	0.0383		mg/L		38	10 - 120	16	49
2,4,5-Trichlorophenol	0.0500	0.0415		mg/L		83	65 - 126	5	18
2,4,6-Trichlorophenol	0.0500	0.0394		mg/L		79	64 - 120	10	19
2-Methylphenol	0.0500	0.0335		mg/L		67	39 - 120	6	27
4-Methylphenol	0.0500	0.0322		mg/L		64	29 - 131	8	24
Hexachlorobenzene	0.0500	0.0469		mg/L		94	61 - 120	2	15
Hexachlorobutadiene	0.0500	0.0299		mg/L		60	35 - 120	5	44
Hexachloroethane	0.0500	0.0297		mg/L		59	43 - 120	3	46
Nitrobenzene	0.0500	0.0368		mg/L		74	53 - 123	10	24
Pentachlorophenol	0.100	0.0933		mg/L		93	29 - 136	3	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	84		41 - 120
2-Fluorobiphenyl	77		48 - 120
2-Fluorophenol	43		35 - 120
Nitrobenzene-d5	71		46 - 120
p-Terphenyl-d14	89		59 - 136

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-395928/3-A

Matrix: Solid

Analysis Batch: 396235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 395928

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Phenol-d5	30		22 - 120

Lab Sample ID: LB 480-395773/1-C

Matrix: Solid

Analysis Batch: 396235

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 395928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		01/16/18 09:12	01/17/18 19:08	1
3-Methylphenol	ND		0.010	0.00040	mg/L		01/16/18 09:12	01/17/18 19:08	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		01/16/18 09:12	01/17/18 19:08	1
Pyridine	ND		0.025	0.00041	mg/L		01/16/18 09:12	01/17/18 19:08	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		01/16/18 09:12	01/17/18 19:08	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		01/16/18 09:12	01/17/18 19:08	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		01/16/18 09:12	01/17/18 19:08	1
4-Methylphenol	ND		0.010	0.00036	mg/L		01/16/18 09:12	01/17/18 19:08	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		01/16/18 09:12	01/17/18 19:08	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		01/16/18 09:12	01/17/18 19:08	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		01/16/18 09:12	01/17/18 19:08	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		01/16/18 09:12	01/17/18 19:08	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		01/16/18 09:12	01/17/18 19:08	1
Surrogate	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		41 - 120				01/16/18 09:12	01/17/18 19:08	1
2-Fluorobiphenyl	85		48 - 120				01/16/18 09:12	01/17/18 19:08	1
2-Fluorophenol	47		35 - 120				01/16/18 09:12	01/17/18 19:08	1
Nitrobenzene-d5	84		46 - 120				01/16/18 09:12	01/17/18 19:08	1
p-Terphenyl-d14	99		59 - 136				01/16/18 09:12	01/17/18 19:08	1
Phenol-d5	31		22 - 120				01/16/18 09:12	01/17/18 19:08	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-395351/1-A

Matrix: Water

Analysis Batch: 395599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		01/11/18 07:25	01/11/18 17:32	1
Barium	ND		0.0020	0.00070	mg/L		01/11/18 07:25	01/11/18 17:32	1
Cadmium	ND		0.0020	0.00050	mg/L		01/11/18 07:25	01/11/18 17:32	1
Chromium	ND		0.0040	0.0010	mg/L		01/11/18 07:25	01/11/18 17:32	1
Lead	ND		0.010	0.0030	mg/L		01/11/18 07:25	01/11/18 17:32	1
Selenium	ND		0.025	0.0087	mg/L		01/11/18 07:25	01/11/18 17:32	1
Silver	ND		0.0060	0.0017	mg/L		01/11/18 07:25	01/11/18 17:32	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-395351/2-A

Matrix: Water

Analysis Batch: 395599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.195		mg/L		97	80 - 120
Barium	0.200	0.195		mg/L		98	80 - 120
Cadmium	0.200	0.192		mg/L		96	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Lead	0.200	0.193		mg/L		97	80 - 120
Selenium	0.200	0.195		mg/L		97	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120

Lab Sample ID: MB 480-395933/2-A

Matrix: Solid

Analysis Batch: 396318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		01/16/18 09:48	01/18/18 04:31	1
Barium	ND		1.0	0.10	mg/L		01/16/18 09:48	01/18/18 04:31	1
Cadmium	ND		0.0020	0.00050	mg/L		01/16/18 09:48	01/18/18 04:31	1
Chromium	ND		0.020	0.010	mg/L		01/16/18 09:48	01/18/18 04:31	1
Lead	ND		0.020	0.0030	mg/L		01/16/18 09:48	01/18/18 04:31	1
Selenium	ND		0.025	0.0087	mg/L		01/16/18 09:48	01/18/18 04:31	1
Silver	ND		0.0060	0.0017	mg/L		01/16/18 09:48	01/18/18 04:31	1

Lab Sample ID: LCS 480-395933/3-A

Matrix: Solid

Analysis Batch: 396318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	0.894	J	mg/L		89	80 - 120
Cadmium	1.00	1.10		mg/L		110	80 - 120
Chromium	1.00	0.963		mg/L		96	80 - 120
Lead	1.00	0.989		mg/L		99	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Silver	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LB 480-395773/1-D

Matrix: Solid

Analysis Batch: 396318

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 395933

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		01/16/18 09:48	01/18/18 04:16	1
Barium	ND		1.0	0.10	mg/L		01/16/18 09:48	01/18/18 04:16	1
Cadmium	ND		0.0020	0.00050	mg/L		01/16/18 09:48	01/18/18 04:16	1
Chromium	ND		0.020	0.010	mg/L		01/16/18 09:48	01/18/18 04:16	1
Lead	ND		0.020	0.0030	mg/L		01/16/18 09:48	01/18/18 04:16	1
Selenium	ND		0.025	0.0087	mg/L		01/16/18 09:48	01/18/18 04:16	1
Silver	ND		0.0060	0.0017	mg/L		01/16/18 09:48	01/18/18 04:16	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-395966/2-A
Matrix: Solid
Analysis Batch: 396049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/16/18 13:10	01/16/18 16:15	1

Lab Sample ID: LCS 480-395966/3-A
Matrix: Solid
Analysis Batch: 396049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00612		mg/L		92	80 - 120

Lab Sample ID: LB 480-395773/1-E
Matrix: Solid
Analysis Batch: 396049

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395966

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/16/18 13:10	01/16/18 16:13	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-395449/1-A
Matrix: Water
Analysis Batch: 395658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/11/18 12:40	01/11/18 17:00	1

Lab Sample ID: LCS 480-395449/2-A
Matrix: Water
Analysis Batch: 395658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00705		mg/L		106	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-395366/1
Matrix: Solid
Analysis Batch: 395366

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-395741/1-A

Matrix: Solid

Analysis Batch: 395874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	10.0	mg/L		01/15/18 05:34	01/15/18 14:47	1

Lab Sample ID: LCS 480-395741/2-A

Matrix: Solid

Analysis Batch: 395874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	ND		mg/L		19	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-395742/1-A

Matrix: Solid

Analysis Batch: 395878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	10.0	mg/L		01/15/18 05:34	01/15/18 12:30	1

Lab Sample ID: LCS 480-395742/2-A

Matrix: Solid

Analysis Batch: 395878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	740	721.4		mg/L		97	10 - 100

Method: 9040C - pH

Lab Sample ID: LCS 480-395647/1

Matrix: Water

Analysis Batch: 395647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.040		SU		101	99 - 101

Lab Sample ID: 460-148055-1 DU

Matrix: Water

Analysis Batch: 395647

Client Sample ID: RW-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.83	HF	7.860		SU		0.4	5
Temperature	20.7	HF	20.76		Degrees C		0.1	10

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method: 9045D - pH

Lab Sample ID: LCS 480-396006/1

Matrix: Solid

Analysis Batch: 396006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU	—	100	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

GC/MS VOA

Analysis Batch: 395370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	8260C	
MB 480-395370/7	Method Blank	Total/NA	Water	8260C	
LCS 480-395370/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 395565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1 - DL	RW-D	Total/NA	Water	8260C	
MB 480-395565/7	Method Blank	Total/NA	Water	8260C	
LCS 480-395565/5	Lab Control Sample	Total/NA	Water	8260C	

Leach Batch: 395779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	1311	
LB 480-395779/1-A	Method Blank	TCLP	Solid	1311	
460-148055-2 MS	RW-D PPE	TCLP	Solid	1311	
460-148055-2 MSD	RW-D PPE	TCLP	Solid	1311	

Analysis Batch: 396097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	8260C	395779
LB 480-395779/1-A	Method Blank	TCLP	Solid	8260C	395779
MB 480-396097/7	Method Blank	Total/NA	Solid	8260C	
LCS 480-396097/5	Lab Control Sample	Total/NA	Solid	8260C	
460-148055-2 MS	RW-D PPE	TCLP	Solid	8260C	395779
460-148055-2 MSD	RW-D PPE	TCLP	Solid	8260C	395779

GC/MS Semi VOA

Prep Batch: 395494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1 - DL	RW-D	Total/NA	Water	3510C	
460-148055-1	RW-D	Total/NA	Water	3510C	
MB 480-395494/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-395494/2-A	Lab Control Sample	Total/NA	Water	3510C	

Leach Batch: 395773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	1311	
LB 480-395773/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 395928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	3510C	395773
LB 480-395773/1-C	Method Blank	TCLP	Solid	3510C	395773
MB 480-395928/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-395928/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-395928/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

TestAmerica Edison

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

GC/MS Semi VOA (Continued)

Analysis Batch: 396235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	8270D	395928
LB 480-395773/1-C	Method Blank	TCLP	Solid	8270D	395928
MB 480-395928/1-A	Method Blank	Total/NA	Solid	8270D	395928
LCS 480-395928/2-A	Lab Control Sample	Total/NA	Solid	8270D	395928
LCSD 480-395928/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	395928

Analysis Batch: 396374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	8270D	395494
MB 480-395494/1-A	Method Blank	Total/NA	Water	8270D	395494
LCS 480-395494/2-A	Lab Control Sample	Total/NA	Water	8270D	395494

Analysis Batch: 396422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1 - DL	RW-D	Total/NA	Water	8270D	395494

Metals

Prep Batch: 395351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	3005A	
MB 480-395351/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-395351/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 395449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	7470A	
MB 480-395449/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-395449/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 395599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	6010C	395351
MB 480-395351/1-A	Method Blank	Total/NA	Water	6010C	395351
LCS 480-395351/2-A	Lab Control Sample	Total/NA	Water	6010C	395351

Analysis Batch: 395658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	7470A	395449
MB 480-395449/1-A	Method Blank	Total/NA	Water	7470A	395449
LCS 480-395449/2-A	Lab Control Sample	Total/NA	Water	7470A	395449

Leach Batch: 395773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	1311	
LB 480-395773/1-D	Method Blank	TCLP	Solid	1311	
LB 480-395773/1-E	Method Blank	TCLP	Solid	1311	

TestAmerica Edison

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Metals (Continued)

Prep Batch: 395933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	3010A	395773
LB 480-395773/1-D	Method Blank	TCLP	Solid	3010A	395773
MB 480-395933/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-395933/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 395966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	7470A	395773
LB 480-395773/1-E	Method Blank	TCLP	Solid	7470A	395773
MB 480-395966/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-395966/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 396049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	7470A	395966
LB 480-395773/1-E	Method Blank	TCLP	Solid	7470A	395966
MB 480-395966/2-A	Method Blank	Total/NA	Solid	7470A	395966
LCS 480-395966/3-A	Lab Control Sample	Total/NA	Solid	7470A	395966

Analysis Batch: 396318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	TCLP	Solid	6010C	395933
LB 480-395773/1-D	Method Blank	TCLP	Solid	6010C	395933
MB 480-395933/2-A	Method Blank	Total/NA	Solid	6010C	395933
LCS 480-395933/3-A	Lab Control Sample	Total/NA	Solid	6010C	395933

General Chemistry

Analysis Batch: 395366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	1010A	
460-148055-2	RW-D PPE	Total/NA	Solid	1010A	
LCS 480-395366/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 395647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	9040C	
LCS 480-395647/1	Lab Control Sample	Total/NA	Water	9040C	
460-148055-1 DU	RW-D	Total/NA	Water	9040C	

Prep Batch: 395741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	7.3.3	
460-148055-2	RW-D PPE	Total/NA	Solid	7.3.3	
MB 480-395741/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 480-395741/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Prep Batch: 395742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	7.3.4	

TestAmerica Edison

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

General Chemistry (Continued)

Prep Batch: 395742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	Total/NA	Solid	7.3.4	
MB 480-395742/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 480-395742/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Analysis Batch: 395874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	9012	395741
460-148055-2	RW-D PPE	Total/NA	Solid	9012	395741
MB 480-395741/1-A	Method Blank	Total/NA	Solid	9012	395741
LCS 480-395741/2-A	Lab Control Sample	Total/NA	Solid	9012	395741

Analysis Batch: 395878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-1	RW-D	Total/NA	Water	9034	395742
460-148055-2	RW-D PPE	Total/NA	Solid	9034	395742
MB 480-395742/1-A	Method Blank	Total/NA	Solid	9034	395742
LCS 480-395742/2-A	Lab Control Sample	Total/NA	Solid	9034	395742

Analysis Batch: 396006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-148055-2	RW-D PPE	Total/NA	Solid	9045D	
LCS 480-396006/1	Lab Control Sample	Total/NA	Solid	9045D	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Client Sample ID: RW-D

Date Collected: 01/08/18 13:00

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	395370	01/11/18 13:13	RLB	TAL BUF
Total/NA	Analysis	8260C	DL	800	395565	01/12/18 16:25	RLB	TAL BUF
Total/NA	Prep	3510C			395494	01/11/18 14:49	ATG	TAL BUF
Total/NA	Analysis	8270D		20	396374	01/18/18 19:22	RJS	TAL BUF
Total/NA	Prep	3510C	DL		395494	01/11/18 14:49	ATG	TAL BUF
Total/NA	Analysis	8270D	DL	500	396422	01/19/18 12:24	RJS	TAL BUF
Total/NA	Prep	3005A			395351	01/11/18 07:25	EMB	TAL BUF
Total/NA	Analysis	6010C		1	395599	01/11/18 18:57	AMH	TAL BUF
Total/NA	Prep	7470A			395449	01/11/18 12:40	EMB	TAL BUF
Total/NA	Analysis	7470A		1	395658	01/11/18 17:05	BMB	TAL BUF
Total/NA	Analysis	1010A		1	395366	01/11/18 08:01	BEV	TAL BUF
Total/NA	Prep	7.3.3			395741	01/15/18 05:34	BEV	TAL BUF
Total/NA	Analysis	9012		1	395874	01/15/18 14:47	MDL	TAL BUF
Total/NA	Prep	7.3.4			395742	01/15/18 05:34	BEV	TAL BUF
Total/NA	Analysis	9034		1	395878	01/15/18 12:30	MDL	TAL BUF
Total/NA	Analysis	9040C		1	395647	01/12/18 11:20	ALZ	TAL BUF

Client Sample ID: RW-D PPE

Date Collected: 01/08/18 13:05

Date Received: 01/08/18 19:20

Lab Sample ID: 460-148055-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			395779	01/15/18 08:36	NMC	TAL BUF
TCLP	Analysis	8260C		20	396097	01/17/18 15:02	ARS	TAL BUF
TCLP	Leach	1311			395773	01/15/18 08:31	NMC	TAL BUF
TCLP	Prep	3510C			395928	01/16/18 09:12	JMP	TAL BUF
TCLP	Analysis	8270D		1	396235	01/17/18 19:35	DMR	TAL BUF
TCLP	Leach	1311			395773	01/15/18 08:31	NMC	TAL BUF
TCLP	Prep	3010A			395933	01/16/18 09:48	EMB	TAL BUF
TCLP	Analysis	6010C		1	396318	01/18/18 05:15	AMH	TAL BUF
TCLP	Leach	1311			395773	01/15/18 08:31	NMC	TAL BUF
TCLP	Prep	7470A			395966	01/16/18 13:10	EMB	TAL BUF
TCLP	Analysis	7470A		1	396049	01/16/18 16:29	BMB	TAL BUF
Total/NA	Analysis	1010A		1	395366	01/11/18 08:01	BEV	TAL BUF
Total/NA	Prep	7.3.3			395741	01/15/18 05:34	BEV	TAL BUF
Total/NA	Analysis	9012		1	395874	01/15/18 14:47	MDL	TAL BUF
Total/NA	Prep	7.3.4			395742	01/15/18 05:34	BEV	TAL BUF
Total/NA	Analysis	9034		1	395878	01/15/18 12:30	MDL	TAL BUF
Total/NA	Analysis	9045D		1	396006	01/16/18 10:03	DSC	TAL BUF

Laboratory References:

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

TestAmerica Edison

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17 *
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9012	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	pH
9040C		Water	Temperature
9045D		Solid	Temperature

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	TCLP Volatiles	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
9045D	pH	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Ossining, NY Project CON EDISON

TestAmerica Job ID: 460-148055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-148055-1	RW-D	Water	01/08/18 13:00	01/08/18 19:20
460-148055-2	RW-D PPE	Solid	01/08/18 13:05	01/08/18 19:20

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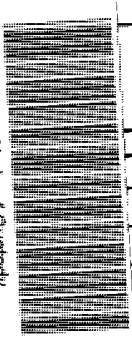
14

15

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: NADEEM BANDA	Lab P/N: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-107062-26181.1
Client Contact: Nadeem Banda	Phone: 734-239-3523	E-Mail: melissa.deyo@testamericainc.com	Page: 1 of 1		
Company: ARCADIS U.S., Inc.	Address: 44 South Broadway 15 Floor	City: White Plains	State Zip: NY, 10601	Due Date Requested:	Analysis Requested
Phone: 734-239-3523	PO #: 80043025.0020.00010	Project Name: Nadeem.Banda@arcadis.com	Project #: 48017341	SSOW#: 05SININ 6, NY	Job #: 148055
Site: 05SININ 6, NY	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sediment, Other)
	RW-D	1/8/17	13:00	G	Water
	RW-D PPE	1/8/17	13:05	G	Solid
					
480-148055 Chain of Custody					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/OC Requirements: CUSTODY SEAL 99770					
Empty Kit Relinquished by:		Date:	Time:		
Relinquished by: Nadeem Banda		Date/Time: 1/8/17 14:50	Received by: 2020		
Relinquished by: 2020		Date/Time: 1/8/18 1920	Received by: Murphy Chale		
Relinquished by:		Date/Time:	Received by:		
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks: IR # 9 3.7 °C					

Job Number: 148055

TALS Sample Number	Ammonia	COD	Nitrate Nitrite	Metals *	Hardness	Pest	EPH or CAM	Phenols	Sulfide	TKN	TOC	Total Cyanide	Total Phos	Other	Other
(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH 5-9)	(pH<2)	(pH<2)	(pH>9)	(pH<2)	(pH<2)	(pH>12)	(pH<2)		

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative(s):

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: TI

Date: 1/8/18

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-148055-1

Login Number: 148055

List Source: TestAmerica Edison

List Number: 2

Creator: Infante, Warleny M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	CS# 997770
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-148055-1

Login Number: 148055

List Number: 3

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

List Creation: 01/10/18 04:46 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Michael C Jones
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 12/6/2023 3:54:52 PM

JOB DESCRIPTION

Con Edison Former Ossining Works

JOB NUMBER

460-292815-2

Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
12/6/2023 3:54:52 PM

Authorized for release by
Grace Chang, Project Manager II
Grace.Chang@et.eurofinsus.com
(732)593-2579

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-2

Job ID: 460-292815-2

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Con Edison Former Ossining Works

Report Number: 460-292815-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/16/2023 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

No preserved Cyanide container received for Sample #1

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

IGNITABILITY

Sample WC-20231116(Water) (460-292815-1) was analyzed for Ignitability in accordance with 1020C. The samples were analyzed on 12/06/2023.

No difficulties were encountered during the Ignitability analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-292815-1	WC-20231116(Water)	Water	11/16/23 09:15	11/16/23 19:00

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-2

Client Sample ID: WC-20231116(Water)
Date Collected: 11/16/23 09:15
Date Received: 11/16/23 19:00

Lab Sample ID: 460-292815-1
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Analyzed	Dil Fac	Analyst
Ignitability	>160				Degrees F		12/06/23 10:22	1	YAH

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-2

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1020C		Water	Ignitability

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-292815-2

Method	Method Description	Protocol	Laboratory
1020C	Ignitability, Small Scale Closed-Cup Method	SW846	EET EDI

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Appendix F

Waste Disposal Documentation

Please print or type.

Form Approved. OMB No. 2050-0039

2411748

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000158535	2. Page 1 of 1 of 2	3. Emergency Response Phone 212-580-8383 917-658-6715	4. Manifest Tracking Number 017995511 FLE
5. Generator's Name and Mailing Address Con Ed of New York Inc 917-658-6715 31-01-20 th Ave Building 136 2nd floor ASTORIA, NY 11105			Generator's Site Address (if different than mailing address) Con Edison of New York 30 Water Street OSSENING, NY 10562		
6. Transporter 1 Company Name IWT Transport Inc				U.S. EPA ID Number NJR986628162	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address Clean Earth of North Jersey, Inc. 9733444004 105 Jacobus Ave Kearny NJ 07032				U.S. EPA ID Number NJD991291105	
Facility's Phone:					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
X	1. UN3286, Flammable liquid, toxic, corrosive, n.o.s. (D001, D002, D007), 3 (6.1, 8), PG-I, RQ	1	DM	45 400	GAL
	2. Non-RCRA, Non-DOT Regulated Material	6	DM	2400	P
	3. Non-RCRA, Non-DOT Regulated Material	54	DM	est. 4,000	P
	4. Non-RCRA, Non-DOT Regulated Material	10	DM	est. 4,000	P
13. Waste Codes					
					D001 D002 D007
					ID27
					ID27
					ID27
14. Special Handling Instructions and Additional Information (1) ERG#131: 2330833290 - Dried Grout Water-HAZ (2) 23308332316 - Investigation Derived Order#: 2411748 Waste, Asphalt / Concrete cuttings-NH(3) 23308332320 - PPE/Polyethylene Sheeting-NH. (4) 23308332323 - Investigation Derived Waste Soils-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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name V. Skowbozator Signature V. Skowbozator Month 11 Day 21 Year 2003					
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 Materials Transporter 1 Printed/Typed Name Nelson Tolman Signature Nelson Tolman Month 11 Day 21 Year 2003 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____					
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) Received Pending Manifest Review/Quality Control Data U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H141 2. H141 3. H141 4. H141					
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____					

DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

12/19/2023 3:41:41 PM

WorkOrder : 2411748

CleanEarth●

Customer : Arcadis

Contact :

Phone :

Job Site : Con Ed of New York Incc-

30 Water St

30 Water Street

OSSINING, NY 10562

Transporter : IWT Transport Inc.-

EPA ID : NYR000158535

CENJ

Driver

Nelson Lilius

Departed CB

Time

AM

PM

Arrived at Cust

Time

AM

PM

Departed Cust

Time

AM

PM

CONT. IN

CONT. OUT

THE UNDERSIGNED AGREES THAT ALL THE ABOVE SERVICE INFORMATION IS CORRECT

CUSTOMER

PRINTED

DATE

SIGNATURE

Matt Bell

NAME

Matt Bell

12/21/23

Comments : Thursday 12-21-23

8-9 am drum pick up

Contact Michael 315-247-3244

017995511FLE

1 - 1 - 1.00 - DM - 2330833290 - Dried Grout and Water-HAZ

017995511FLE

2 - ~~5~~ - ~~5.00~~ - DM - 2330832316 - Investigation Derived Waste , Asphalt / Concrete cuttings-NH.
6 6

017995511FLE

3 - ~~6~~ - ~~6.00~~ - DM - 2330832320 - Investigation Derived Waste, PPE/Polyethylene Sheeting-NH.
4 4

017995511FLE

4 - ~~8~~ - ~~9.00~~ - DM - 2330832323 - Investigation Derived Waste Soils-NH.
10 10

017995511FLE

5 - 2 - 2.00 - DM - 2330833282 - Empty Drums-NH.

12/11/2023 2:26:58 PM

WorkOrder : 2410017

CleanEarth

Customer : Arcadis

Contact :

Phone :

Job Site : Orange and Rockland

Utilities- Pike St- (Arcadis)

Pike Street

Port Jervis, NY 12771

Transporter : IWT Transport Inc.-

EPA ID : NYR000195867

CENJ

Driver

Nelson Polanco

Departed CB

AM

Time

PM

Arrived at Cust.

Time

7:50

AM

PM

Departed Cust.

Time

8:31

AM

PM

CONT. IN.

CONT. OUT.

THE UNDERSIGNED AGREES THAT ALL THE ABOVE SERVICE INFORMATION IS CORRECT

CUSTOMER

PRINTED

DATE

SIGNATURE

Kyle Fedele

NAME

Kyle Fedele

12/19/23

Comments : Tuesday 12-19-23

8am- drum pick up

Contact Kyle 724-934-9531 or Patrick 518-226-5689

*on behalf of
Orange and Rockland Inc*

2410017-01

1 - 2 - *2.00* - DM - 2330800123 - NH investigation derived waste (IDW).

PPE

2410017-01

2 - 3 - 3.00 - DM - 2330800125 - Non-Hazardous investigation derived waste (IDW)-Liquid.

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

2410017

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 5182597322	4. Manifest Tracking Number 2410017-01
5. Generator's Name and Mailing Address <i>Orange and Rockland Utilities, Inc.</i> <i>890 West Route 59 Dept SVOC</i> <i>SPRING VALLEY, NY 10977</i>		Generator's Site Address (if different than mailing address) <i>Orange and Rockland Utilities, Inc.</i> <i>Pike Street</i> <i>Port Jervis, NY 12771</i>			
Generator's Phone: <i>846-294-1757</i>					
6. Transporter 1 Company Name <i>MT Transport Inc</i>		U.S. EPA ID Number <i>NJ7980628162</i>			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address <i>Clean Earth of North Jersey, Inc.</i> <i>105 Jacobus Ave.</i>		U.S. EPA ID Number <i>NJ0991291105</i>			
Facility's Phone: <i>9739444004</i>		<i>Kearny NJ 07032</i>			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity
		1. Non-RCRA solids, D.O.T. Non-regulated	1 DM		75
		2. Non-RCRA liquids, D.O.T. Non-regulated	3 DM		165
		3.			
		4.			
12. Unit WL/Vol					
13. Special Handling Instructions and Additional Information (1) ERGAD: 2330800124 - NH investigation derived waste (IDW). PPE (2) ERGAD: 2330800125 - Non-Hazardous investigation derived waste (IDW)-Liquid Order#: 2410017 - Note:					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <i>Kyle Fedek</i> on behalf of <i>Orange and Rockland Utilities Inc.</i> Signature <i>[Signature]</i> on behalf of <i>Orange and Rockland Inc.</i> Month <i>12</i> Day <i>19</i> Year <i>23</i>					
INTL	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.				
	16. Transporter Acknowledgment of Receipt of Materials				
TRANSPORTER	Transporter 1 Printed/Typed Name <i>Alison Polanco</i>		Signature <i>[Signature]</i>		Month <i>12</i> Day <i>19</i> Year <i>23</i>
	Transporter 2 Printed/Typed Name		Signature		Month Day Year
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	Manifest Reference Number:				
	17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
	Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)		Received Pending Manifest Review/Quality Control Data		Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name <i>Peter Lange</i>		Signature <i>[Signature]</i>		Month <i>12</i> Day <i>20</i> Year <i>23</i>	

Westchester Recycling Services Inc

13 Hayes Street
Elmsford NY, 10523

Ticket #: 312737
Date: 1/3/2024
Weigh In: 8:58 AM
Weigh Out: 9:03 AM

Customer ID: 1
Vehicle ID: NOPLATE-
Driver Name:

Drive In

Material	Gross	Tare	Net	Quantity (NT)	Price	Line Total \$
C&D Debris	4,940	4,660	280	0.14 NT	\$140.00	\$50.00
Material Total						\$50.00
FUEL SURCHARGE					10.30 %	\$5.15
ENVIRONMENTAL FEE					3.50 %	\$1.75
Ticket Total						\$56.90

Remarks: BLK MINIVAN 5813 NOONAN

Payment Information

Type	Amount
Credit Card	\$56.90

Signature: _____

Appendix G

Data Usability Summary Reports

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-290692-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52264R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-290692-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-110 (7.5-8.0)	460-290692-1	Soil	10/18/2023		X	X			
SB-110 (16.0-16.5)	460-290692-2	Soil	10/18/2023		X	X			

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-110 (16.0-16.5)	CCV %D	1,1,2,2-Tetrachloroethane	+27.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks	X				X	
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-110 (7.5-8.0)	ICV %D	Benzo[a]pyrene	+23.4%
SB-110 (7.5-8.0) SB-110 (16.0-16.5)	ICV %D	Dibenzo(a,h)anthracene	+20.6%
	CCV %D	Benzaldehyde	-36.2%
		Hexachlorocyclopentadiene	-24.1%
		2,4-Dinitrophenol	-22.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

The surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-110 (7.5-8.0) SB-110 (16.0-16.5)	Hexachlorocyclopentadiene	<10%	<10%

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Tentatively identified compounds were qualified as JN if detected.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-110 (7.5-8.0)	Acenaphthene	--	14 D	14 D
	Pyrene	--	8.9 D	8.9 D
SB-110 (16.0-16.5)	Acenaphthene	--	35 D	35 D
	Anthracene	--	16 D	16 D
	Benzo[a]anthracene	--	11 D	11 D
	Benzo[a]pyrene	--	10 D	10 D
	Chrysene	--	10 D	10 D
	Fluoranthene	--	22 D	22 D
	Fluorene	--	19 D	19 D
	Naphthalene	--	33 D	33 D
	Phenanthrene	--	61 D	61 D
	Pyrene	--	31 D	31 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-290692-1	10/18/2023	SW846/USEPA	SB-110 (7.5-8.0)	Water	yes	no	--	--	--	SVOC – CCV %D, LCS/LCSD %R
	10/18/2023	SW846/USEPA	SB-110 (16.0-16.5)	Water	no	no	--	--	--	VOC – CCV %D SVOC – CCV %D, LCS/LCSD %R

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: December 22, 2023

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Address.

695211  eurofins

**Environment Testing
America**

Regulatory Program		☐ RCRA	☐ NPDOS	☐ DW	☐ Other:
Project Manager M. AC JONES		Date: 10/18/23		COC No.	
Tel/Email 703-441-2000 / m.jones@epa.gov		Site Contact: Tom Miller		Carrier	
Analysis Turnaround Time		Lab Contact:			
☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below: <u>SID</u>					
☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day					
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	
10/18/23	1131	G	SOL	6	
10/18/23	1211	G	SOL	6	
 460-290692 Chain of Custody					
Possible Hazard Identification Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4= HNO ₃ ; 5= NaOH; 6= Other _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Comments Section if the lab is to dispose of the sample.					
Special Instructions/QC Requirements & Comments.					
Custody Seals Intact:		☐ Yes	☐ No		
Relinquished by Tom Miller		Company ACDAS		Date/Time: 10/18/23 1347	Received by: [Signature]
Relinquished by [Signature]		Company EPA		Date/Time: 10-18-23 1700	Received by: [Signature]
Relinquished by [Signature]		Company [Signature]		Date/Time: 10/18/23 1900	Received in Laboratory by: [Signature]
Cooler Temp. (°C): Obs'd: _____		Cor'd: _____		Therm ID No.: _____	
Return to Client ☐		Disposal by Lab ☐		Archive for _____ Months	

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (7.5-8.0)

Lab Sample ID: 460-290692-1

Date Collected: 10/18/23 11:31

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00049	U	0.0021	0.00049	mg/Kg	☆	10/23/23 15:06	1	AAT
1,1,2,2-Tetrachloroethane	0.00045	U	0.0021	0.00045	mg/Kg	☆	10/23/23 15:06	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00063	U	0.0021	0.00063	mg/Kg	☆	10/23/23 15:06	1	AAT
1,1,2-Trichloroethane	0.00037	U	0.0021	0.00037	mg/Kg	☆	10/23/23 15:06	1	AAT
1,1-Dichloroethane	0.00043	U	0.0021	0.00043	mg/Kg	☆	10/23/23 15:06	1	AAT
1,1-Dichloroethene	0.00047	U	0.0021	0.00047	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2,3-Trichlorobenzene	0.00038	U	0.0021	0.00038	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2,4-Trichlorobenzene	0.00075	U	0.0021	0.00075	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2-Dibromo-3-Chloropropane	0.00097	U	0.0021	0.00097	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2-Dichlorobenzene	0.00076	U	0.0021	0.00076	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2-Dichloroethane	0.00062	U	0.0021	0.00062	mg/Kg	☆	10/23/23 15:06	1	AAT
1,2-Dichloropropane	0.00089	U	0.0021	0.00089	mg/Kg	☆	10/23/23 15:06	1	AAT
1,3-Dichlorobenzene	0.00077	U	0.0021	0.00077	mg/Kg	☆	10/23/23 15:06	1	AAT
1,4-Dichlorobenzene	0.00047	U	0.0021	0.00047	mg/Kg	☆	10/23/23 15:06	1	AAT
1,4-Dioxane	0.019	U	0.21	0.019	mg/Kg	☆	10/23/23 15:06	1	AAT
2-Butanone (MEK)	0.013		0.010	0.00077	mg/Kg	☆	10/23/23 15:06	1	AAT
2-Hexanone	0.0036	U	0.010	0.0036	mg/Kg	☆	10/23/23 15:06	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0033	U	0.010	0.0033	mg/Kg	☆	10/23/23 15:06	1	AAT
Acetone	0.049		0.013	0.012	mg/Kg	☆	10/23/23 15:06	1	AAT
Benzene	0.0082		0.0021	0.00054	mg/Kg	☆	10/23/23 15:06	1	AAT
Bromoform	0.00089	U	0.0021	0.00089	mg/Kg	☆	10/23/23 15:06	1	AAT
Bromomethane	0.0021	U	0.0042	0.0021	mg/Kg	☆	10/23/23 15:06	1	AAT
Carbon disulfide	0.0040		0.0021	0.00056	mg/Kg	☆	10/23/23 15:06	1	AAT
Carbon tetrachloride	0.00081	U	0.0021	0.00081	mg/Kg	☆	10/23/23 15:06	1	AAT
Chlorobenzene	0.00037	U	0.0021	0.00037	mg/Kg	☆	10/23/23 15:06	1	AAT
Chlorobromomethane	0.00059	U	0.0021	0.00059	mg/Kg	☆	10/23/23 15:06	1	AAT
Chlorodibromomethane	0.00041	U	0.0021	0.00041	mg/Kg	☆	10/23/23 15:06	1	AAT
Chloroethane	0.0011	U	0.0021	0.0011	mg/Kg	☆	10/23/23 15:06	1	AAT
Chloroform	0.0020	U	0.0021	0.0020	mg/Kg	☆	10/23/23 15:06	1	AAT
Chloromethane	0.00091	U	0.0021	0.00091	mg/Kg	☆	10/23/23 15:06	1	AAT
cis-1,2-Dichloroethene	0.00075	U	0.0021	0.00075	mg/Kg	☆	10/23/23 15:06	1	AAT
cis-1,3-Dichloropropene	0.00057	U	0.0021	0.00057	mg/Kg	☆	10/23/23 15:06	1	AAT
Cyclohexane	0.00046	U	0.0021	0.00046	mg/Kg	☆	10/23/23 15:06	1	AAT
Dichlorobromomethane	0.00054	U	0.0021	0.00054	mg/Kg	☆	10/23/23 15:06	1	AAT
Dichlorodifluoromethane	0.00071	U	0.0021	0.00071	mg/Kg	☆	10/23/23 15:06	1	AAT
Ethylbenzene	0.0035		0.0021	0.00042	mg/Kg	☆	10/23/23 15:06	1	AAT
Ethylene Dibromide	0.00038	U	0.0021	0.00038	mg/Kg	☆	10/23/23 15:06	1	AAT
Isopropylbenzene	0.022		0.0021	0.00060	mg/Kg	☆	10/23/23 15:06	1	AAT
Methyl acetate	0.0090	U	0.010	0.0090	mg/Kg	☆	10/23/23 15:06	1	AAT
Methyl tert-butyl ether	0.0011	U	0.0021	0.0011	mg/Kg	☆	10/23/23 15:06	1	AAT
Methylcyclohexane	0.0053		0.0021	0.0010	mg/Kg	☆	10/23/23 15:06	1	AAT
Methylene Chloride	0.0024	U	0.0042	0.0024	mg/Kg	☆	10/23/23 15:06	1	AAT
m-Xylene & p-Xylene	0.0020	J	0.0021	0.00037	mg/Kg	☆	10/23/23 15:06	1	AAT
o-Xylene	0.0027		0.0021	0.00041	mg/Kg	☆	10/23/23 15:06	1	AAT
Styrene	0.0013	J	0.0021	0.00058	mg/Kg	☆	10/23/23 15:06	1	AAT
Tetrachloroethene	0.00064	U	0.0021	0.00064	mg/Kg	☆	10/23/23 15:06	1	AAT
Toluene	0.0018	J	0.0021	0.00049	mg/Kg	☆	10/23/23 15:06	1	AAT
trans-1,2-Dichloroethene	0.00052	U	0.0021	0.00052	mg/Kg	☆	10/23/23 15:06	1	AAT
trans-1,3-Dichloropropene	0.00056	U	0.0021	0.00056	mg/Kg	☆	10/23/23 15:06	1	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (7.5-8.0)

Lab Sample ID: 460-290692-1

Date Collected: 10/18/23 11:31

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00067	U	0.0021	0.00067	mg/Kg	☼	10/23/23 15:06	1	AAT
Trichlorofluoromethane	0.00085	U	0.0021	0.00085	mg/Kg	☼	10/23/23 15:06	1	AAT
Vinyl chloride	0.0011	U	0.0021	0.0011	mg/Kg	☼	10/23/23 15:06	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.25	J N	mg/Kg	☼	9.66	N/A	10/23/23 15:06	1	AAT
Unknown	0.29	J N	mg/Kg	☼	9.92	N/A	10/23/23 15:06	1	AAT
Unknown	0.25	J N	mg/Kg	☼	10.67	N/A	10/23/23 15:06	1	AAT
Unknown	0.27	J N	mg/Kg	☼	11.30	N/A	10/23/23 15:06	1	AAT
Unknown	0.22	J N	mg/Kg	☼	11.47	N/A	10/23/23 15:06	1	AAT
Unknown	0.23	J N	mg/Kg	☼	11.68	N/A	10/23/23 15:06	1	AAT
trans-Decalin, 2-methyl-	0.37	J N	mg/Kg	☼	11.78	1000152-47-3	10/23/23 15:06	1	AAT
Unknown	0.46	J N	mg/Kg	☼	12.31	N/A	10/23/23 15:06	1	AAT
Unknown	0.21	J N	mg/Kg	☼	12.67	N/A	10/23/23 15:06	1	AAT
Unknown	0.33	J N	mg/Kg	☼	12.80	N/A	10/23/23 15:06	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	74		72 - 138	10/23/23 15:06	1	AAT
4-Bromofluorobenzene	91		63 - 139	10/23/23 15:06	1	AAT
Dibromofluoromethane (Surr)	79		54 - 150	10/23/23 15:06	1	AAT
Toluene-d8 (Surr)	88		71 - 126	10/23/23 15:06	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.35	0.023	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4-Dinitrophenol	0.17	U J	0.28	0.17	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	10/20/23 16:49	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Methylnaphthalene	0.0097	U	0.35	0.0097	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Methylphenol	0.024	J	0.35	0.013	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Nitroaniline	0.026	U	0.35	0.026	mg/Kg	☼	10/20/23 16:49	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	10/20/23 16:49	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	10/20/23 16:49	1	MDJ
3-Nitroaniline	0.082	U	0.35	0.082	mg/Kg	☼	10/20/23 16:49	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.35	0.019	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Methylphenol	0.046	J	0.35	0.022	mg/Kg	☼	10/20/23 16:49	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (7.5-8.0)

Lab Sample ID: 460-290692-1

Date Collected: 10/18/23 11:31

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 95.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	10/20/23 16:49	1	MDJ
4-Nitrophenol	0.057	U	0.70	0.057	mg/Kg	☼	10/20/23 16:49	1	MDJ
Acenaphthylene	1.5		0.35	0.0099	mg/Kg	☼	10/20/23 16:49	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	10/20/23 16:49	1	MDJ
Anthracene	3.8		0.35	0.011	mg/Kg	☼	10/20/23 16:49	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzaldehyde	0.057	U J	0.35	0.057	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzo[a]anthracene	3.7		0.035	0.026	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzo[a]pyrene	2.7	J	0.035	0.0092	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzo[b]fluoranthene	2.2		0.035	0.0090	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzo[g,h,i]perylene	0.71		0.35	0.010	mg/Kg	☼	10/20/23 16:49	1	MDJ
Benzo[k]fluoranthene	0.82		0.035	0.0068	mg/Kg	☼	10/20/23 16:49	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	10/20/23 16:49	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☼	10/20/23 16:49	1	MDJ
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	10/20/23 16:49	1	MDJ
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	10/20/23 16:49	1	MDJ
Carbazole	0.013	U	0.35	0.013	mg/Kg	☼	10/20/23 16:49	1	MDJ
Chrysene	3.2		0.35	0.015	mg/Kg	☼	10/20/23 16:49	1	MDJ
Dibenz(a,h)anthracene	0.22	J	0.035	0.015	mg/Kg	☼	10/20/23 16:49	1	MDJ
Dibenzofuran	1.3		0.35	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	10/20/23 16:49	1	MDJ
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	10/20/23 16:49	1	MDJ
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	10/20/23 16:49	1	MDJ
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	10/20/23 16:49	1	MDJ
Fluoranthene	6.6		0.35	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
Fluorene	0.010	U	0.35	0.010	mg/Kg	☼	10/20/23 16:49	1	MDJ
Hexachlorobenzene	0.016	U	0.035	0.016	mg/Kg	☼	10/20/23 16:49	1	MDJ
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	☼	10/20/23 16:49	1	MDJ
Hexachlorocyclopentadiene	~~R 0.030~~	~~U *~~	~~0.35~~	~~0.030~~	~~mg/Kg~~	~~☼~~	~~10/20/23 16:49~~	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	10/20/23 16:49	1	MDJ
Indeno[1,2,3-cd]pyrene	0.78		0.035	0.014	mg/Kg	☼	10/20/23 16:49	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/20/23 16:49	1	MDJ
Naphthalene	0.30	J	0.35	0.0060	mg/Kg	☼	10/20/23 16:49	1	MDJ
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	10/20/23 16:49	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	10/20/23 16:49	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	10/20/23 16:49	1	MDJ
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	10/20/23 16:49	1	MDJ
Phenanthrene	6.9		0.35	0.014	mg/Kg	☼	10/20/23 16:49	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	10/20/23 16:49	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.83	J N	mg/Kg	☼	4.63	N/A	10/20/23 16:49	1	MDJ
Unknown	0.77	J N	mg/Kg	☼	4.87	N/A	10/20/23 16:49	1	MDJ
Benzene, 1-ethyl-2,4-dimethyl-	1.7	J N	mg/Kg	☼	5.02	874-41-9	10/20/23 16:49	1	MDJ
Unknown	1.0	J N	mg/Kg	☼	5.13	N/A	10/20/23 16:49	1	MDJ
Unknown	0.99	J N	mg/Kg	☼	5.18	N/A	10/20/23 16:49	1	MDJ
Unknown	0.91	J N	mg/Kg	☼	5.26	N/A	10/20/23 16:49	1	MDJ
Undecane, 2,6-dimethyl-	3.4	J N	mg/Kg	☼	5.56	17301-23-4	10/20/23 16:49	1	MDJ
Cyclohexane, (4-methylpentyl)-	1.7	J N	mg/Kg	☼	5.77	61142-20-9	10/20/23 16:49	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (7.5-8.0)

Lab Sample ID: 460-290692-1

Date Collected: 10/18/23 11:31

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 95.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	2.7	J N	mg/Kg	⊛	5.91	N/A	10/20/23 16:49	1	MDJ
Unknown	2.2	J N	mg/Kg	⊛	6.08	N/A	10/20/23 16:49	1	MDJ
Unknown	2.7	J N	mg/Kg	⊛	6.16	N/A	10/20/23 16:49	1	MDJ
Naphthalene, 1-methyl-	4.7	J N	mg/Kg	⊛	6.26	90-12-0	10/20/23 16:49	1	MDJ
Heptylcyclohexane	2.4	J N	mg/Kg	⊛	6.36	5617-41-4	10/20/23 16:49	1	MDJ
Unknown	2.6	J N	mg/Kg	⊛	6.48	N/A	10/20/23 16:49	1	MDJ
Unknown	1.9	J N	mg/Kg	⊛	6.62	N/A	10/20/23 16:49	1	MDJ
Naphthalene, 2-ethyl-	2.3	J N	mg/Kg	⊛	6.71	939-27-5	10/20/23 16:49	1	MDJ
Pentadecane, 7-methyl-	3.5	J N	mg/Kg	⊛	6.92	6165-40-8	10/20/23 16:49	1	MDJ
Naphthalene, 1,4,5-trimethyl-	2.1	J N	mg/Kg	⊛	7.55	2131-41-1	10/20/23 16:49	1	MDJ
Unknown	4.1	J N	mg/Kg	⊛	7.81	N/A	10/20/23 16:49	1	MDJ
Dodecane, 2,7,10-trimethyl-	2.5	J N	mg/Kg	⊛	8.06	74645-98-0	10/20/23 16:49	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	82		24 - 137	10/20/23 16:49	1	MDJ
2-Fluorobiphenyl	83		48 - 120	10/20/23 16:49	1	MDJ
2-Fluorophenol (Surr)	82		31 - 120	10/20/23 16:49	1	MDJ
Nitrobenzene-d5 (Surr)	85		38 - 120	10/20/23 16:49	1	MDJ
Phenol-d5 (Surr)	89		39 - 120	10/20/23 16:49	1	MDJ
Terphenyl-d14 (Surr)	83		25 - 126	10/20/23 16:49	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	14	D	0.69	0.020	mg/Kg	⊛	10/20/23 19:09	2	MDJ
Pyrene	8.9	D	0.69	0.017	mg/Kg	⊛	10/20/23 19:09	2	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/20/23 19:09	2	MDJ

Client Sample ID: SB-110 (16.0-16.5)

Lab Sample ID: 460-290692-2

Date Collected: 10/18/23 12:11

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.027	U	0.098	0.027	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,1,2,2-Tetrachloroethane	0.019	U J	0.098	0.019	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,1,2-Trichloro-1,2,2-trifluoroethane	0.033	U	0.098	0.033	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,1,2-Trichloroethane	0.020	U	0.098	0.020	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,1-Dichloroethane	0.024	U	0.098	0.024	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,1-Dichloroethene	0.026	U	0.098	0.026	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2,3-Trichlorobenzene	0.034	U	0.098	0.034	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2,4-Trichlorobenzene	0.026	U	0.098	0.026	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2-Dibromo-3-Chloropropane	0.021	U	0.098	0.021	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2-Dichlorobenzene	0.022	U	0.098	0.022	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2-Dichloroethane	0.025	U	0.098	0.025	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,2-Dichloropropane	0.018	U	0.098	0.018	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,3-Dichlorobenzene	0.032	U	0.098	0.032	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,4-Dichlorobenzene	0.033	U	0.098	0.033	mg/Kg	⊛	10/24/23 19:18	50	KLB
1,4-Dioxane	2.8	U	4.9	2.8	mg/Kg	⊛	10/24/23 19:18	50	KLB

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (16.0-16.5)

Lab Sample ID: 460-290692-2

Date Collected: 10/18/23 12:11

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Butanone (MEK)	0.22	U	0.49	0.22	mg/Kg	☼	10/24/23 19:18	50	KLB
2-Hexanone	0.11	U	0.49	0.11	mg/Kg	☼	10/24/23 19:18	50	KLB
4-Methyl-2-pentanone (MIBK)	0.13	U	0.49	0.13	mg/Kg	☼	10/24/23 19:18	50	KLB
Acetone	0.43	U	0.49	0.43	mg/Kg	☼	10/24/23 19:18	50	KLB
Benzene	0.37		0.098	0.020	mg/Kg	☼	10/24/23 19:18	50	KLB
Bromoform	0.018	U	0.098	0.018	mg/Kg	☼	10/24/23 19:18	50	KLB
Bromomethane	0.054	U	0.098	0.054	mg/Kg	☼	10/24/23 19:18	50	KLB
Carbon disulfide	0.19		0.098	0.066	mg/Kg	☼	10/24/23 19:18	50	KLB
Carbon tetrachloride	0.032	U	0.098	0.032	mg/Kg	☼	10/24/23 19:18	50	KLB
Chlorobenzene	0.024	U	0.098	0.024	mg/Kg	☼	10/24/23 19:18	50	KLB
Chlorobromomethane	0.029	U	0.098	0.029	mg/Kg	☼	10/24/23 19:18	50	KLB
Chlorodibromomethane	0.022	U	0.098	0.022	mg/Kg	☼	10/24/23 19:18	50	KLB
Chloroethane	0.036	U	0.098	0.036	mg/Kg	☼	10/24/23 19:18	50	KLB
Chloroform	0.022	U	0.098	0.022	mg/Kg	☼	10/24/23 19:18	50	KLB
Chloromethane	0.039	U	0.098	0.039	mg/Kg	☼	10/24/23 19:18	50	KLB
cis-1,2-Dichloroethene	0.025	U	0.098	0.025	mg/Kg	☼	10/24/23 19:18	50	KLB
cis-1,3-Dichloropropene	0.022	U	0.098	0.022	mg/Kg	☼	10/24/23 19:18	50	KLB
Cyclohexane	0.13		0.098	0.025	mg/Kg	☼	10/24/23 19:18	50	KLB
Dichlorobromomethane	0.015	U	0.098	0.015	mg/Kg	☼	10/24/23 19:18	50	KLB
Dichlorodifluoromethane	0.030	U	0.098	0.030	mg/Kg	☼	10/24/23 19:18	50	KLB
Ethylbenzene	14		0.098	0.029	mg/Kg	☼	10/24/23 19:18	50	KLB
Ethylene Dibromide	0.019	U	0.098	0.019	mg/Kg	☼	10/24/23 19:18	50	KLB
Isopropylbenzene	2.0		0.098	0.031	mg/Kg	☼	10/24/23 19:18	50	KLB
Methyl acetate	0.077	U	0.49	0.077	mg/Kg	☼	10/24/23 19:18	50	KLB
Methyl tert-butyl ether	0.021	U	0.098	0.021	mg/Kg	☼	10/24/23 19:18	50	KLB
Methylcyclohexane	1.0		0.098	0.071	mg/Kg	☼	10/24/23 19:18	50	KLB
Methylene Chloride	0.021	U	0.098	0.021	mg/Kg	☼	10/24/23 19:18	50	KLB
m-Xylene & p-Xylene	0.77		0.098	0.027	mg/Kg	☼	10/24/23 19:18	50	KLB
o-Xylene	3.0		0.098	0.031	mg/Kg	☼	10/24/23 19:18	50	KLB
Styrene	0.017	U	0.098	0.017	mg/Kg	☼	10/24/23 19:18	50	KLB
Tetrachloroethene	0.035	U	0.098	0.035	mg/Kg	☼	10/24/23 19:18	50	KLB
Toluene	0.12		0.098	0.025	mg/Kg	☼	10/24/23 19:18	50	KLB
trans-1,2-Dichloroethene	0.018	U	0.098	0.018	mg/Kg	☼	10/24/23 19:18	50	KLB
trans-1,3-Dichloropropene	0.022	U	0.098	0.022	mg/Kg	☼	10/24/23 19:18	50	KLB
Trichloroethene	0.022	U	0.098	0.022	mg/Kg	☼	10/24/23 19:18	50	KLB
Trichlorofluoromethane	0.031	U	0.098	0.031	mg/Kg	☼	10/24/23 19:18	50	KLB
Vinyl chloride	0.020	U	0.098	0.020	mg/Kg	☼	10/24/23 19:18	50	KLB

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	6.7	J N	mg/Kg	☼	11.64	95-63-6	10/24/23 19:18	50	KLB
Indane	25	J N	mg/Kg	☼	12.22	496-11-7	10/24/23 19:18	50	KLB
Benzene, 1,3-diethyl-	4.5	J N	mg/Kg	☼	12.25	141-93-5	10/24/23 19:18	50	KLB
Unknown	4.2	J N	mg/Kg	☼	12.32	N/A	10/24/23 19:18	50	KLB
Benzene, 1-ethyl-2,3-dimethyl-	4.7	J N	mg/Kg	☼	12.62	933-98-2	10/24/23 19:18	50	KLB
Benzene, 2-ethenyl-1,4-dimethyl-	4.9	J N	mg/Kg	☼	13.10	2039-89-6	10/24/23 19:18	50	KLB
3-Phenylbut-1-ene	4.4	J N	mg/Kg	☼	13.19	934-10-1	10/24/23 19:18	50	KLB
2-Methylindene	5.2	J N	mg/Kg	☼	13.30	2177-47-1	10/24/23 19:18	50	KLB
Naphthalene	23	J N	mg/Kg	☼	13.58	91-20-3	10/24/23 19:18	50	KLB
Naphthalene, 1-methyl-	8.1	J N	mg/Kg	☼	14.50	90-12-0	10/24/23 19:18	50	KLB

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (16.0-16.5)

Lab Sample ID: 460-290692-2

Date Collected: 10/18/23 12:11

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 93.7

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	134		68 - 150	10/24/23 19:18	50	KLB
4-Bromofluorobenzene	95		70 - 141	10/24/23 19:18	50	KLB
Dibromofluoromethane (Surr)	105		68 - 142	10/24/23 19:18	50	KLB
Toluene-d8 (Surr)	109		73 - 147	10/24/23 19:18	50	KLB

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	6.5		0.35	0.012	mg/Kg	☆	10/20/23 17:12	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4-Dichlorophenol	0.023	U	0.14	0.023	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4-Dinitrophenol	0.17	U J	0.28	0.17	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,4-Dinitrotoluene	0.038	U	0.072	0.038	mg/Kg	☆	10/20/23 17:12	1	MDJ
2,6-Dinitrotoluene	0.026	U	0.072	0.026	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Chlorophenol	0.013	U	0.35	0.013	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Methylnaphthalene	1.5		0.35	0.0099	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☆	10/20/23 17:12	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☆	10/20/23 17:12	1	MDJ
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☆	10/20/23 17:12	1	MDJ
3-Nitroaniline	0.084	U	0.35	0.084	mg/Kg	☆	10/20/23 17:12	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Chloroaniline	0.063	U	0.35	0.063	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Nitroaniline	0.041	U	0.35	0.041	mg/Kg	☆	10/20/23 17:12	1	MDJ
4-Nitrophenol	0.058	U	0.72	0.058	mg/Kg	☆	10/20/23 17:12	1	MDJ
Acenaphthylene	3.3		0.35	0.010	mg/Kg	☆	10/20/23 17:12	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☆	10/20/23 17:12	1	MDJ
Atrazine	0.021	U	0.14	0.021	mg/Kg	☆	10/20/23 17:12	1	MDJ
Benzaldehyde	0.058	U	0.35	0.058	mg/Kg	☆	10/20/23 17:12	1	MDJ
Benzo[b]fluoranthene	7.2		0.035	0.0091	mg/Kg	☆	10/20/23 17:12	1	MDJ
Benzo[g,h,i]perylene	2.6		0.35	0.010	mg/Kg	☆	10/20/23 17:12	1	MDJ
Benzo[k]fluoranthene	2.4		0.035	0.0069	mg/Kg	☆	10/20/23 17:12	1	MDJ
Bis(2-chloroethoxy)methane	0.028	U	0.35	0.028	mg/Kg	☆	10/20/23 17:12	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☆	10/20/23 17:12	1	MDJ
Bis(2-ethylhexyl) phthalate	0.019	U	0.35	0.019	mg/Kg	☆	10/20/23 17:12	1	MDJ
Butyl benzyl phthalate	0.017	U	0.35	0.017	mg/Kg	☆	10/20/23 17:12	1	MDJ
Caprolactam	0.055	U	0.35	0.055	mg/Kg	☆	10/20/23 17:12	1	MDJ
Carbazole	1.3		0.35	0.013	mg/Kg	☆	10/20/23 17:12	1	MDJ
Dibenz(a,h)anthracene	0.68		0.035	0.015	mg/Kg	☆	10/20/23 17:12	1	MDJ
Dibenzofuran	3.0		0.35	0.012	mg/Kg	☆	10/20/23 17:12	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☆	10/20/23 17:12	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (16.0-16.5)

Lab Sample ID: 460-290692-2

Date Collected: 10/18/23 12:11

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 93.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Dimethyl phthalate	0.080	U	0.35	0.080	mg/Kg	☼	10/20/23 17:12	1	MDJ
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	10/20/23 17:12	1	MDJ
Di-n-octyl phthalate	0.019	U	0.35	0.019	mg/Kg	☼	10/20/23 17:12	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	10/20/23 17:12	1	MDJ
Hexachlorobutadiene	0.0075	U	0.072	0.0075	mg/Kg	☼	10/20/23 17:12	1	MDJ
Hexachlorocyclopentadiene	~~R 0.031~~	~~U *~~	~~0.35~~	~~0.031~~	~~mg/Kg~~	~~☼~~	~~10/20/23 17:12~~	~~1~~	~~MDJ~~
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	10/20/23 17:12	1	MDJ
Indeno[1,2,3-cd]pyrene	2.6		0.035	0.014	mg/Kg	☼	10/20/23 17:12	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/20/23 17:12	1	MDJ
Nitrobenzene	0.020	U	0.035	0.020	mg/Kg	☼	10/20/23 17:12	1	MDJ
N-Nitrosodi-n-propylamine	0.026	U	0.035	0.026	mg/Kg	☼	10/20/23 17:12	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	10/20/23 17:12	1	MDJ
Pentachlorophenol	0.072	U	0.28	0.072	mg/Kg	☼	10/20/23 17:12	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	10/20/23 17:12	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	3.6	J N	mg/Kg	☼	4.10	95-63-6	10/20/23 17:12	1	MDJ
Indane	14	J N	mg/Kg	☼	4.43	496-11-7	10/20/23 17:12	1	MDJ
Benzene, 1,3-diethyl-	2.9	J N	mg/Kg	☼	4.49	141-93-5	10/20/23 17:12	1	MDJ
Benzene, 4-ethyl-1,2-dimethyl-	2.8	J N	mg/Kg	☼	4.77	934-80-5	10/20/23 17:12	1	MDJ
Indan, 1-methyl-	2.5	J N	mg/Kg	☼	5.17	767-58-8	10/20/23 17:12	1	MDJ
Benzene, 1-methyl-1,2-propadienyl-	4.3	J N	mg/Kg	☼	5.24	22433-39-2	10/20/23 17:12	1	MDJ
2-Methylindene	5.3	J N	mg/Kg	☼	5.28	2177-47-1	10/20/23 17:12	1	MDJ
Benzo[b]thiophene	2.8	J N	mg/Kg	☼	5.55	95-15-8	10/20/23 17:12	1	MDJ
Naphthalene, 1-methyl-	20	J N	mg/Kg	☼	6.27	90-12-0	10/20/23 17:12	1	MDJ
Naphthalene, 2,6-dimethyl-	6.1	J N	mg/Kg	☼	6.77	581-42-0	10/20/23 17:12	1	MDJ
Naphthalene, 2,3-dimethyl-	8.0	J N	mg/Kg	☼	6.84	581-40-8	10/20/23 17:12	1	MDJ
Naphthalene, 2-(1-methylethyl)-	2.8	J N	mg/Kg	☼	7.26	2027-17-0	10/20/23 17:12	1	MDJ
Naphthalene, 1,4,5-trimethyl-	2.7	J N	mg/Kg	☼	7.55	2131-41-1	10/20/23 17:12	1	MDJ
Unknown	3.0	J N	mg/Kg	☼	7.65	N/A	10/20/23 17:12	1	MDJ
Phenanthrene, 2-methyl-	4.6	J N	mg/Kg	☼	9.05	2531-84-2	10/20/23 17:12	1	MDJ
Phenanthrene, 1-methyl-	5.6	J N	mg/Kg	☼	9.08	832-69-9	10/20/23 17:12	1	MDJ
Anthracene, 1-methyl-	2.9	J N	mg/Kg	☼	9.13	610-48-0	10/20/23 17:12	1	MDJ
Unknown	7.1	J N	mg/Kg	☼	9.16	N/A	10/20/23 17:12	1	MDJ
Benzo[e]pyrene	2.6	J N	mg/Kg	☼	12.69	192-97-2	10/20/23 17:12	1	MDJ
Perylene	5.4	J N	mg/Kg	☼	12.92	198-55-0	10/20/23 17:12	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	83		24 - 137	10/20/23 17:12	1	MDJ
2-Fluorobiphenyl	87		48 - 120	10/20/23 17:12	1	MDJ
2-Fluorophenol (Surr)	90		31 - 120	10/20/23 17:12	1	MDJ
Nitrobenzene-d5 (Surr)	91		38 - 120	10/20/23 17:12	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	10/20/23 17:12	1	MDJ
Terphenyl-d14 (Surr)	89		25 - 126	10/20/23 17:12	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	35	D	3.5	0.10	mg/Kg	☼	10/20/23 20:02	10	MDJ
Anthracene	16	D	3.5	0.11	mg/Kg	☼	10/20/23 20:02	10	MDJ
Benzo[a]anthracene	11	D	0.35	0.27	mg/Kg	☼	10/20/23 20:02	10	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290692-1

Client Sample ID: SB-110 (16.0-16.5)

Lab Sample ID: 460-290692-2

Date Collected: 10/18/23 12:11

Matrix: Solid

Date Received: 10/18/23 19:00

Percent Solids: 93.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[a]pyrene	10	D	0.35	0.094	mg/Kg	☼	10/20/23 20:02	10	MDJ
Chrysene	10	D	3.5	0.15	mg/Kg	☼	10/20/23 20:02	10	MDJ
Fluoranthene	22	D	3.5	0.12	mg/Kg	☼	10/20/23 20:02	10	MDJ
Fluorene	19	D	3.5	0.10	mg/Kg	☼	10/20/23 20:02	10	MDJ
Naphthalene	33	D	3.5	0.061	mg/Kg	☼	10/20/23 20:02	10	MDJ
Phenanthrene	61	D	3.5	0.14	mg/Kg	☼	10/20/23 20:02	10	MDJ
Pyrene	31	D	3.5	0.088	mg/Kg	☼	10/20/23 20:02	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/20/23 20:02	10	MDJ

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-290738-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52265R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-290738-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-112(10.0-10.5)	460-290738-1	Soil	10/18/2023		X	X			
SB-106(13.5-14.0)	460-290738-2	Soil	10/18/2023		X	X			
SB-106(20.0-20.5)	460-290738-3	Soil	10/18/2023		X	X			
SB-112(15.0-15.5)	460-290738-4	Soil	10/18/2023		X	X			
SB-107(12.5-13)	460-290738-5	Soil	10/19/2023		X	X			
SB-107(15-16)	460-290738-6	Soil	10/19/2023		X	X			

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-112(15.0-15.5)	ICV %D	Dichlorodifluoromethane	-21.2%
	CCV %D	Methylcyclohexane	-21.1%
SB-112(10.0-10.5) SB-107(12.5-13) SB-107(15-16)	ICV %D	Acetone	-21.9%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-112(10.0-10.5) SB-107(12.5-13) SB-107(15-16)	1,1,2-Trichloroethane	<LL but >10%	AC

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-112(10.0-10.5)	ICV %D	Benzaldehyde	-58.7%
SB-106(13.5-14.0)	CCV %D	Benzaldehyde	-36.2%
SB-106(20.0-20.5)		2,4-Dinitrophenol	-22.6%
SB-112(15.0-15.5)			
SB-107(12.5-13)			
SB-107(15-16)			

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

The surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-112(10.0-10.5) SB-106(13.5-14.0)	2,4-Dimethylphenol	<LL but >10%	AC
SB-106(20.0-20.5) SB-112(15.0-15.5)	Atrazine	AC	<LL but >10%
SB-107(12.5-13) SB-107(15-16)	Hexachlorocyclopentadiene	<10%	<10%

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Tentatively identified compounds were qualified as JN if detected.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-112(10.0-10.5)	Phenanthrene	--	13 D	13 D
SB-106(13.5-14.0)	1,1'-Biphenyl	--	11 D	11 D
	2-Methylnaphthalene	--	21 D	21 D
	Acenaphthene	--	49 D	49 D
	Anthracene	--	21 D	21 D
	Benzo[a]anthracene	--	15 D	15 D
	Benzo[a]pyrene	--	13 D	13 D
	Benzo[b]fluoranthene	--	9.8 D	9.8 D
	Chrysene	--	12 D	12 D
	Fluoranthene	--	29 D	29 D
	Fluorene	--	25 D	25 D
	Naphthalene	--	110 D	110 D
	Phenanthrene	--	79 D	79 D
	Pyrene	--	39 D	39 D
SB-106(20.0-20.5)	Naphthalene	--	12 D	12 D
	Phenanthrene	--	9.1 D	9.1 D

Data Usability Summary Report

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-107(12.5-13)	Acenaphthene	--	26 D	26 D
	Anthracene	--	19 D	19 D
	Benzo[a]anthracene	--	15 D	15 D
	Benzo[a]pyrene	--	14 D	14 D
	Benzo[b]fluoranthene	--	11 D	11 D
	Chrysene	--	12 D	12 D
	Fluoranthene	--	31 D	31 D
	Fluorene	--	20 D	20 D
	Phenanthrene	--	67 D	67 D
	Pyrene	--	36 D	36 D
SB-107(15-16)	Acenaphthene	--	20 D	20 D
	Anthracene	--	13 D	13 D
	Benzo[a]anthracene	--	10 D	10 D
	Fluoranthene	--	21 D	21 D
	Fluorene	--	14 D	14 D
	Phenanthrene	--	42 D	42 D
	Pyrene	--	25 D	25 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ

Reported Sample Results	Qualification
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-290738-1	10/18/2023	SW846/USEPA	SB-112(10.0-10.5)	Water	no	no	--	--	--	VOC – ICV %D, LCS %R SVOC – CCV %D, LCS/LCSD %R
	10/18/2023	SW846/USEPA	SB-106(13.5-14.0)	Water	no	no	--	--	--	SVOC – CCV %D, LCS/LCSD %R
	10/18/2023	SW846/USEPA	SB-106(20.0-20.5)	Water	no	no	--	--	--	SVOC – CCV %D, LCS/LCSD %R
	10/18/2023	SW846/USEPA	SB-112(15.0-15.5)	Water	no	no	--	--	--	VOC – ICV/CCV %D SVOC – CCV %D, LCS/LCSD %R
	10/19/2023	SW846/USEPA	SB-107(12.5-13)	Water	no	no	--	--	--	VOC – ICV %D, LCS %R SVOC – CCV %D, LCS/LCSD %R
	10/19/2023	SW846/USEPA	SB-107(15-16)	Water	no	no	--	--	--	VOC – ICV %D, LCS %R SVOC – CCV %D, LCS/LCSD %R

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: December 27, 2023

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(10.0-10.5)

Lab Sample ID: 460-290738-1

Date Collected: 10/18/23 16:12

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	✱	10/27/23 18:49	1	MZS
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	10/27/23 18:49	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	✱	10/27/23 18:49	1	MZS
1,1,2-Trichloroethane	0.00019	✱ UJ	0.0011	0.00019	mg/Kg	✱	10/27/23 18:49	1	MZS
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	10/27/23 18:49	1	MZS
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2-Dibromo-3-Chloropropane	0.00050	U	0.0011	0.00050	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	✱	10/27/23 18:49	1	MZS
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	✱	10/27/23 18:49	1	MZS
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	✱	10/27/23 18:49	1	MZS
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	✱	10/27/23 18:49	1	MZS
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	✱	10/27/23 18:49	1	MZS
2-Butanone (MEK)	0.015		0.0055	0.00040	mg/Kg	✱	10/27/23 18:49	1	MZS
2-Hexanone	0.0019	U	0.0055	0.0019	mg/Kg	✱	10/27/23 18:49	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0055	0.0017	mg/Kg	✱	10/27/23 18:49	1	MZS
Acetone	0.061	J	0.0066	0.0062	mg/Kg	✱	10/27/23 18:49	1	MZS
Benzene	0.040		0.0011	0.00028	mg/Kg	✱	10/27/23 18:49	1	MZS
Bromoform	0.00046	U	0.0011	0.00046	mg/Kg	✱	10/27/23 18:49	1	MZS
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	✱	10/27/23 18:49	1	MZS
Carbon disulfide	0.0020		0.0011	0.00029	mg/Kg	✱	10/27/23 18:49	1	MZS
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	✱	10/27/23 18:49	1	MZS
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	✱	10/27/23 18:49	1	MZS
Chlorobromomethane	0.00031	U	0.0011	0.00031	mg/Kg	✱	10/27/23 18:49	1	MZS
Chlorodibromomethane	0.00021	U	0.0011	0.00021	mg/Kg	✱	10/27/23 18:49	1	MZS
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	✱	10/27/23 18:49	1	MZS
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	✱	10/27/23 18:49	1	MZS
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	✱	10/27/23 18:49	1	MZS
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	✱	10/27/23 18:49	1	MZS
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	✱	10/27/23 18:49	1	MZS
Cyclohexane	0.025		0.0011	0.00024	mg/Kg	✱	10/27/23 18:49	1	MZS
Dichlorobromomethane	0.00028	U	0.0011	0.00028	mg/Kg	✱	10/27/23 18:49	1	MZS
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	✱	10/27/23 18:49	1	MZS
Ethylbenzene	0.13		0.0011	0.00022	mg/Kg	✱	10/27/23 18:49	1	MZS
Ethylene Dibromide	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/27/23 18:49	1	MZS
Isopropylbenzene	0.16		0.0011	0.00031	mg/Kg	✱	10/27/23 18:49	1	MZS
Methyl acetate	0.0047	U	0.0055	0.0047	mg/Kg	✱	10/27/23 18:49	1	MZS
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	✱	10/27/23 18:49	1	MZS
Methylcyclohexane	0.12		0.0011	0.00055	mg/Kg	✱	10/27/23 18:49	1	MZS
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	✱	10/27/23 18:49	1	MZS
m-Xylene & p-Xylene	0.022		0.0011	0.00019	mg/Kg	✱	10/27/23 18:49	1	MZS
o-Xylene	0.092		0.0011	0.00021	mg/Kg	✱	10/27/23 18:49	1	MZS
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	✱	10/27/23 18:49	1	MZS
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	✱	10/27/23 18:49	1	MZS
Toluene	0.0024		0.0011	0.00026	mg/Kg	✱	10/27/23 18:49	1	MZS
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	✱	10/27/23 18:49	1	MZS
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	✱	10/27/23 18:49	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(10.0-10.5)

Lab Sample ID: 460-290738-1

Date Collected: 10/18/23 16:12

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	10/27/23 18:49	1	MZS
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	10/27/23 18:49	1	MZS
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	10/27/23 18:49	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-2-methyl-	0.33	J N	mg/Kg	☼	10.48	611-14-3	10/27/23 18:49	1	MZS
Unknown	0.37	J N	mg/Kg	☼	10.64	N/A	10/27/23 18:49	1	MZS
Unknown	0.20	J N	mg/Kg	☼	11.27	N/A	10/27/23 18:49	1	MZS
Unknown	0.24	J N	mg/Kg	☼	11.42	N/A	10/27/23 18:49	1	MZS
Benzene, 1-ethyl-2,4-dimethyl-	0.23	J N	mg/Kg	☼	11.52	874-41-9	10/27/23 18:49	1	MZS
Benzene, 1-methyl-2-(1-methylethyl)-	0.25	J N	mg/Kg	☼	11.58	527-84-4	10/27/23 18:49	1	MZS
Benzene, 1-ethenyl-3-ethyl-	0.35	J N	mg/Kg	☼	11.65	7525-62-4	10/27/23 18:49	1	MZS
Unknown	0.17	J N	mg/Kg	☼	11.85	N/A	10/27/23 18:49	1	MZS
Benzene, 1,2,3,5-tetramethyl-	0.21	J N	mg/Kg	☼	11.92	527-53-7	10/27/23 18:49	1	MZS
2-Methylindene	0.31	J N	mg/Kg	☼	12.35	2177-47-1	10/27/23 18:49	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	91		72 - 138	10/27/23 18:49	1	MZS
4-Bromofluorobenzene	97		63 - 139	10/27/23 18:49	1	MZS
Dibromofluoromethane (Surr)	102		54 - 150	10/27/23 18:49	1	MZS
Toluene-d8 (Surr)	122		71 - 126	10/27/23 18:49	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.12	J	0.39	0.013	mg/Kg	☼	10/20/23 23:48	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.39	0.012	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U	0.39	0.023	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,3,4,6-Tetrachlorophenol	0.026	U	0.39	0.026	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4,5-Trichlorophenol	0.040	U	0.39	0.040	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4,6-Trichlorophenol	0.050	U	0.16	0.050	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4-Dichlorophenol	0.025	U	0.16	0.025	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4-Dimethylphenol	0.046	U	0.39	0.046	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,4-Dinitrotoluene	0.042	U	0.079	0.042	mg/Kg	☼	10/20/23 23:48	1	MDJ
2,6-Dinitrotoluene	0.028	U	0.079	0.028	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Chloronaphthalene	0.018	U	0.39	0.018	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Chlorophenol	0.014	U	0.39	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Methylnaphthalene	0.33	J	0.39	0.011	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Methylphenol	0.014	U	0.39	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Nitroaniline	0.030	U	0.39	0.030	mg/Kg	☼	10/20/23 23:48	1	MDJ
2-Nitrophenol	0.039	U	0.39	0.039	mg/Kg	☼	10/20/23 23:48	1	MDJ
3,3'-Dichlorobenzidine	0.059	U	0.16	0.059	mg/Kg	☼	10/20/23 23:48	1	MDJ
3-Nitroaniline	0.092	U	0.39	0.092	mg/Kg	☼	10/20/23 23:48	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.39	0.015	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Chloro-3-methylphenol	0.022	U	0.39	0.022	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Chloroaniline	0.069	U	0.39	0.069	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Chlorophenyl phenyl ether	0.014	U	0.39	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Methylphenol	0.024	U	0.39	0.024	mg/Kg	☼	10/20/23 23:48	1	MDJ
4-Nitroaniline	0.045	U	0.39	0.045	mg/Kg	☼	10/20/23 23:48	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(10.0-10.5)

Lab Sample ID: 460-290738-1

Date Collected: 10/18/23 16:12

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 85.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitrophenol	0.063	U	0.79	0.063	mg/Kg	☼	10/20/23 23:48	1	MDJ
Acenaphthene	7.1		0.39	0.011	mg/Kg	☼	10/20/23 23:48	1	MDJ
Acenaphthylene	1.0		0.39	0.011	mg/Kg	☼	10/20/23 23:48	1	MDJ
Acetophenone	0.019	U	0.39	0.019	mg/Kg	☼	10/20/23 23:48	1	MDJ
Anthracene	4.4		0.39	0.012	mg/Kg	☼	10/20/23 23:48	1	MDJ
Atrazine	0.023	U+ UJ	0.16	0.023	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzaldehyde	0.064	U	0.39	0.064	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzo[a]anthracene	2.8		0.039	0.029	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzo[a]pyrene	2.4		0.039	0.010	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzo[b]fluoranthene	1.9		0.039	0.010	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzo[g,h,i]perylene	0.94		0.39	0.011	mg/Kg	☼	10/20/23 23:48	1	MDJ
Benzo[k]fluoranthene	0.64		0.039	0.0076	mg/Kg	☼	10/20/23 23:48	1	MDJ
Bis(2-chloroethoxy)methane	0.030	U	0.39	0.030	mg/Kg	☼	10/20/23 23:48	1	MDJ
Bis(2-chloroethyl)ether	0.014	U	0.039	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
Bis(2-ethylhexyl) phthalate	0.021	U	0.39	0.021	mg/Kg	☼	10/20/23 23:48	1	MDJ
Butyl benzyl phthalate	0.018	U	0.39	0.018	mg/Kg	☼	10/20/23 23:48	1	MDJ
Caprolactam	0.060	U	0.39	0.060	mg/Kg	☼	10/20/23 23:48	1	MDJ
Carbazole	0.41		0.39	0.015	mg/Kg	☼	10/20/23 23:48	1	MDJ
Chrysene	2.5		0.39	0.016	mg/Kg	☼	10/20/23 23:48	1	MDJ
Dibenz(a,h)anthracene	0.25		0.039	0.017	mg/Kg	☼	10/20/23 23:48	1	MDJ
Dibenzofuran	0.98		0.39	0.013	mg/Kg	☼	10/20/23 23:48	1	MDJ
Diethyl phthalate	0.012	U	0.39	0.012	mg/Kg	☼	10/20/23 23:48	1	MDJ
Dimethyl phthalate	0.088	U	0.39	0.088	mg/Kg	☼	10/20/23 23:48	1	MDJ
Di-n-butyl phthalate	0.015	U	0.39	0.015	mg/Kg	☼	10/20/23 23:48	1	MDJ
Di-n-octyl phthalate	0.021	U	0.39	0.021	mg/Kg	☼	10/20/23 23:48	1	MDJ
Fluoranthene	5.2		0.39	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
Fluorene	3.1		0.39	0.011	mg/Kg	☼	10/20/23 23:48	1	MDJ
Hexachlorobenzene	0.018	U	0.039	0.018	mg/Kg	☼	10/20/23 23:48	1	MDJ
Hexachlorobutadiene	0.0083	U	0.079	0.0083	mg/Kg	☼	10/20/23 23:48	1	MDJ
Hexachlorocyclopentadiene	R 0.034	U *	0.39	0.034	mg/Kg	☼	10/20/23 23:48	1	MDJ
Hexachloroethane	0.013	U	0.039	0.013	mg/Kg	☼	10/20/23 23:48	1	MDJ
Indeno[1,2,3-cd]pyrene	0.98		0.039	0.015	mg/Kg	☼	10/20/23 23:48	1	MDJ
Isophorone	0.11	U	0.16	0.11	mg/Kg	☼	10/20/23 23:48	1	MDJ
Naphthalene	1.3		0.39	0.0067	mg/Kg	☼	10/20/23 23:48	1	MDJ
Nitrobenzene	0.022	U	0.039	0.022	mg/Kg	☼	10/20/23 23:48	1	MDJ
N-Nitrosodi-n-propylamine	0.028	U	0.039	0.028	mg/Kg	☼	10/20/23 23:48	1	MDJ
N-Nitrosodiphenylamine	0.032	U	0.39	0.032	mg/Kg	☼	10/20/23 23:48	1	MDJ
Pentachlorophenol	0.080	U	0.31	0.080	mg/Kg	☼	10/20/23 23:48	1	MDJ
Phenol	0.014	U	0.39	0.014	mg/Kg	☼	10/20/23 23:48	1	MDJ
Pyrene	7.2		0.39	0.0096	mg/Kg	☼	10/20/23 23:48	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	5.8	J N	mg/Kg	☼	4.96	90-12-0	10/20/23 23:48	1	MDJ
Naphthalene, 1,5-dimethyl-	4.4	J N	mg/Kg	☼	5.42	571-61-9	10/20/23 23:48	1	MDJ
Naphthalene, 1,6-dimethyl-	6.4	J N	mg/Kg	☼	5.51	575-43-9	10/20/23 23:48	1	MDJ
Naphthalene, 2-(1-methylethyl)-	4.5	J N	mg/Kg	☼	5.76	2027-17-0	10/20/23 23:48	1	MDJ
Naphthalene, 1,4,6-trimethyl-	4.7	J N	mg/Kg	☼	5.87	2131-42-2	10/20/23 23:48	1	MDJ
Unknown	7.7	J N	mg/Kg	☼	5.91	N/A	10/20/23 23:48	1	MDJ
Naphthalene, 2,3,6-trimethyl-	3.2	J N	mg/Kg	☼	5.94	829-26-5	10/20/23 23:48	1	MDJ
Naphthalene, 1,6,7-trimethyl-	6.3	J N	mg/Kg	☼	5.99	2245-38-7	10/20/23 23:48	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(10.0-10.5)

Lab Sample ID: 460-290738-1

Date Collected: 10/18/23 16:12

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 85.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	6.2	J N	mg/Kg	⊛	6.13	N/A	10/20/23 23:48	1	MDJ
Pentadecane, 2,6,10-trimethyl-	9.8	J N	mg/Kg	⊛	6.22	3892-00-0	10/20/23 23:48	1	MDJ
Hexadecane, 2,6,10,14-tetramethyl-	11	J N	mg/Kg	⊛	6.43	638-36-8	10/20/23 23:48	1	MDJ
9H-Fluorene, 2-methyl-	2.6	J N	mg/Kg	⊛	6.51	1430-97-3	10/20/23 23:48	1	MDJ
Unknown	2.8	J N	mg/Kg	⊛	6.62	N/A	10/20/23 23:48	1	MDJ
Dibenzothiophene	2.9	J N	mg/Kg	⊛	6.71	132-65-0	10/20/23 23:48	1	MDJ
Hexadecane	7.3	J N	mg/Kg	⊛	6.77	544-76-3	10/20/23 23:48	1	MDJ
Anthracene, 2-methyl-	4.6	J N	mg/Kg	⊛	7.18	613-12-7	10/20/23 23:48	1	MDJ
Phenanthrene, 1-methyl-	6.1	J N	mg/Kg	⊛	7.20	832-69-9	10/20/23 23:48	1	MDJ
Unknown	7.5	J N	mg/Kg	⊛	7.26	N/A	10/20/23 23:48	1	MDJ
9,10-Dimethylanthracene	4.9	J N	mg/Kg	⊛	7.59	781-43-1	10/20/23 23:48	1	MDJ
Phenanthrene, 3,6-dimethyl-	5.1	J N	mg/Kg	⊛	7.61	1576-67-6	10/20/23 23:48	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	58		24 - 137	10/20/23 23:48	1	MDJ
2-Fluorobiphenyl	61		48 - 120	10/20/23 23:48	1	MDJ
2-Fluorophenol (Surr)	63		31 - 120	10/20/23 23:48	1	MDJ
Nitrobenzene-d5 (Surr)	47		38 - 120	10/20/23 23:48	1	MDJ
Phenol-d5 (Surr)	63		39 - 120	10/20/23 23:48	1	MDJ
Terphenyl-d14 (Surr)	59		25 - 126	10/20/23 23:48	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Phenanthrene	13	D	0.77	0.032	mg/Kg	⊛	10/22/23 00:40	2	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/22/23 00:40	2	YAH

Client Sample ID: SB-106(13.5-14.0)

Lab Sample ID: 460-290738-2

Date Collected: 10/18/23 14:30

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.10	U	0.37	0.10	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,1,1,2-Tetrachloroethane	0.073	U	0.37	0.073	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.12	U	0.37	0.12	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,1,1,2-Trichloroethane	0.075	U	0.37	0.075	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,1-Dichloroethane	0.088	U	0.37	0.088	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,1-Dichloroethene	0.097	U	0.37	0.097	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2,3-Trichlorobenzene	0.13	U	0.37	0.13	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2,4-Trichlorobenzene	0.099	U	0.37	0.099	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2-Dibromo-3-Chloropropane	0.078	U	0.37	0.078	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2-Dichlorobenzene	0.081	U	0.37	0.081	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2-Dichloroethane	0.091	U	0.37	0.091	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,2-Dichloropropane	0.066	U	0.37	0.066	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,3-Dichlorobenzene	0.12	U	0.37	0.12	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,4-Dichlorobenzene	0.12	U	0.37	0.12	mg/Kg	⊛	10/23/23 13:24	200	AAT
1,4-Dioxane	10	U	18	10	mg/Kg	⊛	10/23/23 13:24	200	AAT
2-Butanone (MEK)	0.81	U	1.8	0.81	mg/Kg	⊛	10/23/23 13:24	200	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(13.5-14.0)

Lab Sample ID: 460-290738-2

Date Collected: 10/18/23 14:30

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.42	U	1.8	0.42	mg/Kg	☼	10/23/23 13:24	200	AAT
4-Methyl-2-pentanone (MIBK)	0.48	U	1.8	0.48	mg/Kg	☼	10/23/23 13:24	200	AAT
Acetone	1.6	U	1.8	1.6	mg/Kg	☼	10/23/23 13:24	200	AAT
Benzene	0.36	J	0.37	0.074	mg/Kg	☼	10/23/23 13:24	200	AAT
Bromoform	0.066	U	0.37	0.066	mg/Kg	☼	10/23/23 13:24	200	AAT
Bromomethane	0.20	U	0.37	0.20	mg/Kg	☼	10/23/23 13:24	200	AAT
Carbon disulfide	0.25	U	0.37	0.25	mg/Kg	☼	10/23/23 13:24	200	AAT
Carbon tetrachloride	0.12	U	0.37	0.12	mg/Kg	☼	10/23/23 13:24	200	AAT
Chlorobenzene	0.088	U	0.37	0.088	mg/Kg	☼	10/23/23 13:24	200	AAT
Chlorobromomethane	0.11	U	0.37	0.11	mg/Kg	☼	10/23/23 13:24	200	AAT
Chlorodibromomethane	0.081	U	0.37	0.081	mg/Kg	☼	10/23/23 13:24	200	AAT
Chloroethane	0.14	U	0.37	0.14	mg/Kg	☼	10/23/23 13:24	200	AAT
Chloroform	0.081	U	0.37	0.081	mg/Kg	☼	10/23/23 13:24	200	AAT
Chloromethane	0.15	U	0.37	0.15	mg/Kg	☼	10/23/23 13:24	200	AAT
cis-1,2-Dichloroethene	0.095	U	0.37	0.095	mg/Kg	☼	10/23/23 13:24	200	AAT
cis-1,3-Dichloropropene	0.081	U	0.37	0.081	mg/Kg	☼	10/23/23 13:24	200	AAT
Cyclohexane	0.095	U	0.37	0.095	mg/Kg	☼	10/23/23 13:24	200	AAT
Dichlorobromomethane	0.055	U	0.37	0.055	mg/Kg	☼	10/23/23 13:24	200	AAT
Dichlorodifluoromethane	0.11	U	0.37	0.11	mg/Kg	☼	10/23/23 13:24	200	AAT
Ethylbenzene	13		0.37	0.11	mg/Kg	☼	10/23/23 13:24	200	AAT
Ethylene Dibromide	0.070	U	0.37	0.070	mg/Kg	☼	10/23/23 13:24	200	AAT
Isopropylbenzene	2.9		0.37	0.12	mg/Kg	☼	10/23/23 13:24	200	AAT
Methyl acetate	0.29	U	1.8	0.29	mg/Kg	☼	10/23/23 13:24	200	AAT
Methyl tert-butyl ether	0.078	U	0.37	0.078	mg/Kg	☼	10/23/23 13:24	200	AAT
Methylcyclohexane	0.58		0.37	0.27	mg/Kg	☼	10/23/23 13:24	200	AAT
Methylene Chloride	0.077	U	0.37	0.077	mg/Kg	☼	10/23/23 13:24	200	AAT
m-Xylene & p-Xylene	2.0		0.37	0.10	mg/Kg	☼	10/23/23 13:24	200	AAT
o-Xylene	4.2		0.37	0.12	mg/Kg	☼	10/23/23 13:24	200	AAT
Styrene	0.062	U	0.37	0.062	mg/Kg	☼	10/23/23 13:24	200	AAT
Tetrachloroethene	0.13	U	0.37	0.13	mg/Kg	☼	10/23/23 13:24	200	AAT
Toluene	0.23	J	0.37	0.091	mg/Kg	☼	10/23/23 13:24	200	AAT
trans-1,2-Dichloroethene	0.066	U	0.37	0.066	mg/Kg	☼	10/23/23 13:24	200	AAT
trans-1,3-Dichloropropene	0.081	U	0.37	0.081	mg/Kg	☼	10/23/23 13:24	200	AAT
Trichloroethene	0.081	U	0.37	0.081	mg/Kg	☼	10/23/23 13:24	200	AAT
Trichlorofluoromethane	0.12	U	0.37	0.12	mg/Kg	☼	10/23/23 13:24	200	AAT
Vinyl chloride	0.073	U	0.37	0.073	mg/Kg	☼	10/23/23 13:24	200	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-4-methyl-	8.5	J N	mg/Kg	☼	11.07	622-96-8	10/23/23 13:24	200	AAT
Benzene, 1,2,4-trimethyl-	12	J N	mg/Kg	☼	11.64	95-63-6	10/23/23 13:24	200	AAT
Indane	51	J N	mg/Kg	☼	12.22	496-11-7	10/23/23 13:24	200	AAT
2-Methylindene	7.9	J N	mg/Kg	☼	13.24	2177-47-1	10/23/23 13:24	200	AAT
1H-Indene, 1-methyl-	12	J N	mg/Kg	☼	13.29	767-59-9	10/23/23 13:24	200	AAT
Naphthalene	130	J N	mg/Kg	☼	13.58	91-20-3	10/23/23 13:24	200	AAT
Naphthalene, 2-methyl-	10	J N	mg/Kg	☼	14.35	91-57-6	10/23/23 13:24	200	AAT
Naphthalene, 1-methyl-	25	J N	mg/Kg	☼	14.50	90-12-0	10/23/23 13:24	200	AAT
Naphthalene, 1-ethyl-	6.9	J N	mg/Kg	☼	15.15	1127-76-0	10/23/23 13:24	200	AAT
Naphthalene, 1,6-dimethyl-	7.5	J N	mg/Kg	☼	15.43	575-43-9	10/23/23 13:24	200	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(13.5-14.0)

Lab Sample ID: 460-290738-2

Date Collected: 10/18/23 14:30

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 87.5

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	124		68 - 150	10/23/23 13:24	200	AAT
4-Bromofluorobenzene	98		70 - 141	10/23/23 13:24	200	AAT
Dibromofluoromethane (Surr)	101		68 - 142	10/23/23 13:24	200	AAT
Toluene-d8 (Surr)	110		73 - 147	10/23/23 13:24	200	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4,5-Trichlorophenol	0.038	U	0.38	0.038	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4-Dimethylphenol	0.045	U*	0.38	0.045	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4-Dinitrophenol	0.19	U	0.30	0.19	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,4-Dinitrotoluene	0.041	U	0.076	0.041	mg/Kg	☆	10/21/23 00:06	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.076	0.027	mg/Kg	☆	10/21/23 00:06	1	MDJ
2-Chloronaphthalene	0.017	U	0.38	0.017	mg/Kg	☆	10/21/23 00:06	1	MDJ
2-Chlorophenol	0.013	U	0.38	0.013	mg/Kg	☆	10/21/23 00:06	1	MDJ
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☆	10/21/23 00:06	1	MDJ
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☆	10/21/23 00:06	1	MDJ
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☆	10/21/23 00:06	1	MDJ
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	☆	10/21/23 00:06	1	MDJ
3-Nitroaniline	0.089	U	0.38	0.089	mg/Kg	☆	10/21/23 00:06	1	MDJ
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Chloroaniline	0.067	U	0.38	0.067	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Nitroaniline	0.043	U	0.38	0.043	mg/Kg	☆	10/21/23 00:06	1	MDJ
4-Nitrophenol	0.061	U	0.76	0.061	mg/Kg	☆	10/21/23 00:06	1	MDJ
Acenaphthylene	4.7		0.38	0.011	mg/Kg	☆	10/21/23 00:06	1	MDJ
Acetophenone	0.018	U	0.38	0.018	mg/Kg	☆	10/21/23 00:06	1	MDJ
Atrazine	0.022	U*	0.15	0.022	mg/Kg	☆	10/21/23 00:06	1	MDJ
Benzaldehyde	0.062	U	0.38	0.062	mg/Kg	☆	10/21/23 00:06	1	MDJ
Benzo[g,h,i]perylene	5.0		0.38	0.011	mg/Kg	☆	10/21/23 00:06	1	MDJ
Benzo[k]fluoranthene	3.6		0.038	0.0074	mg/Kg	☆	10/21/23 00:06	1	MDJ
Bis(2-chloroethoxy)methane	0.029	U	0.38	0.029	mg/Kg	☆	10/21/23 00:06	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☆	10/21/23 00:06	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	☆	10/21/23 00:06	1	MDJ
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☆	10/21/23 00:06	1	MDJ
Caprolactam	0.059	U	0.38	0.059	mg/Kg	☆	10/21/23 00:06	1	MDJ
Carbazole	1.7		0.38	0.014	mg/Kg	☆	10/21/23 00:06	1	MDJ
Dibenz(a,h)anthracene	1.4		0.038	0.016	mg/Kg	☆	10/21/23 00:06	1	MDJ
Dibenzofuran	4.8		0.38	0.013	mg/Kg	☆	10/21/23 00:06	1	MDJ
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☆	10/21/23 00:06	1	MDJ
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	☆	10/21/23 00:06	1	MDJ
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☆	10/21/23 00:06	1	MDJ
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☆	10/21/23 00:06	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(13.5-14.0)

Lab Sample ID: 460-290738-2

Date Collected: 10/18/23 14:30

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 87.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	☼	10/21/23 00:06	1	MDJ
Hexachlorobutadiene	0.0080	U	0.076	0.0080	mg/Kg	☼	10/21/23 00:06	1	MDJ
Hexachlorocyclopentadiene	~~0.033~~	~~U *~~	~~0.38~~	~~0.033~~	~~mg/Kg~~	~~☼~~	~~10/21/23 00:06~~	1	MDJ
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	☼	10/21/23 00:06	1	MDJ
Indeno[1,2,3-cd]pyrene	5.0		0.038	0.015	mg/Kg	☼	10/21/23 00:06	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/21/23 00:06	1	MDJ
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	☼	10/21/23 00:06	1	MDJ
N-Nitrosodi-n-propylamine	0.027	U	0.038	0.027	mg/Kg	☼	10/21/23 00:06	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	☼	10/21/23 00:06	1	MDJ
Pentachlorophenol	0.077	U	0.30	0.077	mg/Kg	☼	10/21/23 00:06	1	MDJ
Phenol	0.014	U	0.38	0.014	mg/Kg	☼	10/21/23 00:06	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	12	J N	mg/Kg	☼	3.50	496-11-7	10/21/23 00:06	1	MDJ
1H-Indene, 1-methyl-	7.3	J N	mg/Kg	☼	4.17	767-59-9	10/21/23 00:06	1	MDJ
Naphthalene, 1-methyl-	35	J N	mg/Kg	☼	4.97	90-12-0	10/21/23 00:06	1	MDJ
Naphthalene, 2-ethyl-	17	J N	mg/Kg	☼	5.32	939-27-5	10/21/23 00:06	1	MDJ
Naphthalene, 2,7-dimethyl-	13	J N	mg/Kg	☼	5.37	582-16-1	10/21/23 00:06	1	MDJ
Naphthalene, 2,3-dimethyl-	18	J N	mg/Kg	☼	5.43	581-40-8	10/21/23 00:06	1	MDJ
Naphthalene, 1,3-dimethyl-	9.3	J N	mg/Kg	☼	5.45	575-41-7	10/21/23 00:06	1	MDJ
Naphthalene, 1,4-dimethyl-	14	J N	mg/Kg	☼	5.51	571-58-4	10/21/23 00:06	1	MDJ
Unknown	8.6	J N	mg/Kg	☼	6.07	N/A	10/21/23 00:06	1	MDJ
Unknown	9.2	J N	mg/Kg	☼	6.21	N/A	10/21/23 00:06	1	MDJ
9H-Fluorene, 1-methyl-	7.9	J N	mg/Kg	☼	6.51	1730-37-6	10/21/23 00:06	1	MDJ
Phenanthrene, 2-methyl-	16	J N	mg/Kg	☼	7.19	2531-84-2	10/21/23 00:06	1	MDJ
Anthracene, 2-methyl-	16	J N	mg/Kg	☼	7.21	613-12-7	10/21/23 00:06	1	MDJ
1H-Cyclopropa[1,2,3-cd]phenanthrene, 1a,9b-dihydro-	7.7	J N	mg/Kg	☼	7.24	949-41-7	10/21/23 00:06	1	MDJ
Phenanthrene, 1-methyl-	21	J N	mg/Kg	☼	7.27	832-69-9	10/21/23 00:06	1	MDJ
Anthracene, 1-methyl-	12	J N	mg/Kg	☼	7.29	610-48-0	10/21/23 00:06	1	MDJ
2-Phenylnaphthalene	8.7	J N	mg/Kg	☼	7.41	35465-71-5	10/21/23 00:06	1	MDJ
Phenanthrene, 2,5-dimethyl-	10	J N	mg/Kg	☼	7.60	3674-66-6	10/21/23 00:06	1	MDJ
Unknown	10	J N	mg/Kg	☼	7.79	N/A	10/21/23 00:06	1	MDJ
11H-Benzo[b]fluorene	10	J N	mg/Kg	☼	8.14	243-17-4	10/21/23 00:06	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	10/21/23 00:06	1	MDJ
2-Fluorobiphenyl	72		48 - 120	10/21/23 00:06	1	MDJ
2-Fluorophenol (Surr)	71		31 - 120	10/21/23 00:06	1	MDJ
Nitrobenzene-d5 (Surr)	70		38 - 120	10/21/23 00:06	1	MDJ
Phenol-d5 (Surr)	75		39 - 120	10/21/23 00:06	1	MDJ
Terphenyl-d14 (Surr)	74		25 - 126	10/21/23 00:06	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	11	D	7.5	0.26	mg/Kg	☼	10/22/23 22:48	20	YAH
2-Methylnaphthalene	21	D	7.5	0.21	mg/Kg	☼	10/22/23 22:48	20	YAH
Acenaphthene	49	D	7.5	0.21	mg/Kg	☼	10/22/23 22:48	20	YAH
Anthracene	21	D	7.5	0.23	mg/Kg	☼	10/22/23 22:48	20	YAH
Benzo[a]anthracene	15	D	0.75	0.57	mg/Kg	☼	10/22/23 22:48	20	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(13.5-14.0)

Lab Sample ID: 460-290738-2

Date Collected: 10/18/23 14:30

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 87.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[a]pyrene	13	D	0.75	0.20	mg/Kg	☼	10/22/23 22:48	20	YAH
Benzo[b]fluoranthene	9.8	D	0.75	0.20	mg/Kg	☼	10/22/23 22:48	20	YAH
Chrysene	12	D	7.5	0.32	mg/Kg	☼	10/22/23 22:48	20	YAH
Fluoranthene	29	D	7.5	0.26	mg/Kg	☼	10/22/23 22:48	20	YAH
Fluorene	25	D	7.5	0.22	mg/Kg	☼	10/22/23 22:48	20	YAH
Naphthalene	110	D	7.5	0.13	mg/Kg	☼	10/22/23 22:48	20	YAH
Phenanthrene	79	D	7.5	0.31	mg/Kg	☼	10/22/23 22:48	20	YAH
Pyrene	39	D	7.5	0.19	mg/Kg	☼	10/22/23 22:48	20	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/22/23 22:48	20	YAH

Client Sample ID: SB-106(20.0-20.5)

Lab Sample ID: 460-290738-3

Date Collected: 10/18/23 15:09

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.026	U	0.094	0.026	mg/Kg	☼	10/23/23 12:59	50	AAT
1,1,2,2-Tetrachloroethane	0.019	U	0.094	0.019	mg/Kg	☼	10/23/23 12:59	50	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.032	U	0.094	0.032	mg/Kg	☼	10/23/23 12:59	50	AAT
1,1,2-Trichloroethane	0.019	U	0.094	0.019	mg/Kg	☼	10/23/23 12:59	50	AAT
1,1-Dichloroethane	0.022	U	0.094	0.022	mg/Kg	☼	10/23/23 12:59	50	AAT
1,1-Dichloroethene	0.025	U	0.094	0.025	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2,3-Trichlorobenzene	0.033	U	0.094	0.033	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2,4-Trichlorobenzene	0.025	U	0.094	0.025	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2-Dibromo-3-Chloropropane	0.020	U	0.094	0.020	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2-Dichlorobenzene	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2-Dichloroethane	0.023	U	0.094	0.023	mg/Kg	☼	10/23/23 12:59	50	AAT
1,2-Dichloropropane	0.017	U	0.094	0.017	mg/Kg	☼	10/23/23 12:59	50	AAT
1,3-Dichlorobenzene	0.031	U	0.094	0.031	mg/Kg	☼	10/23/23 12:59	50	AAT
1,4-Dichlorobenzene	0.031	U	0.094	0.031	mg/Kg	☼	10/23/23 12:59	50	AAT
1,4-Dioxane	2.6	U	4.7	2.6	mg/Kg	☼	10/23/23 12:59	50	AAT
2-Butanone (MEK)	0.21	U	0.47	0.21	mg/Kg	☼	10/23/23 12:59	50	AAT
2-Hexanone	0.11	U	0.47	0.11	mg/Kg	☼	10/23/23 12:59	50	AAT
4-Methyl-2-pentanone (MIBK)	0.12	U	0.47	0.12	mg/Kg	☼	10/23/23 12:59	50	AAT
Acetone	0.41	U	0.47	0.41	mg/Kg	☼	10/23/23 12:59	50	AAT
Benzene	0.075	J	0.094	0.019	mg/Kg	☼	10/23/23 12:59	50	AAT
Bromoform	0.017	U	0.094	0.017	mg/Kg	☼	10/23/23 12:59	50	AAT
Bromomethane	0.052	U	0.094	0.052	mg/Kg	☼	10/23/23 12:59	50	AAT
Carbon disulfide	0.063	U	0.094	0.063	mg/Kg	☼	10/23/23 12:59	50	AAT
Carbon tetrachloride	0.031	U	0.094	0.031	mg/Kg	☼	10/23/23 12:59	50	AAT
Chlorobenzene	0.022	U	0.094	0.022	mg/Kg	☼	10/23/23 12:59	50	AAT
Chlorobromomethane	0.028	U	0.094	0.028	mg/Kg	☼	10/23/23 12:59	50	AAT
Chlorodibromomethane	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT
Chloroethane	0.035	U	0.094	0.035	mg/Kg	☼	10/23/23 12:59	50	AAT
Chloroform	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT
Chloromethane	0.038	U	0.094	0.038	mg/Kg	☼	10/23/23 12:59	50	AAT
cis-1,2-Dichloroethene	0.024	U	0.094	0.024	mg/Kg	☼	10/23/23 12:59	50	AAT
cis-1,3-Dichloropropene	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(20.0-20.5)

Lab Sample ID: 460-290738-3

Date Collected: 10/18/23 15:09

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyclohexane	0.024	U	0.094	0.024	mg/Kg	☼	10/23/23 12:59	50	AAT
Dichlorobromomethane	0.014	U	0.094	0.014	mg/Kg	☼	10/23/23 12:59	50	AAT
Dichlorodifluoromethane	0.029	U	0.094	0.029	mg/Kg	☼	10/23/23 12:59	50	AAT
Ethylbenzene	1.7		0.094	0.028	mg/Kg	☼	10/23/23 12:59	50	AAT
Ethylene Dibromide	0.018	U	0.094	0.018	mg/Kg	☼	10/23/23 12:59	50	AAT
Isopropylbenzene	0.30		0.094	0.030	mg/Kg	☼	10/23/23 12:59	50	AAT
Methyl acetate	0.073	U	0.47	0.073	mg/Kg	☼	10/23/23 12:59	50	AAT
Methyl tert-butyl ether	0.020	U	0.094	0.020	mg/Kg	☼	10/23/23 12:59	50	AAT
Methylcyclohexane	0.068	U	0.094	0.068	mg/Kg	☼	10/23/23 12:59	50	AAT
Methylene Chloride	0.020	U	0.094	0.020	mg/Kg	☼	10/23/23 12:59	50	AAT
m-Xylene & p-Xylene	0.23		0.094	0.026	mg/Kg	☼	10/23/23 12:59	50	AAT
o-Xylene	0.45		0.094	0.030	mg/Kg	☼	10/23/23 12:59	50	AAT
Styrene	0.016	U	0.094	0.016	mg/Kg	☼	10/23/23 12:59	50	AAT
Tetrachloroethene	0.034	U	0.094	0.034	mg/Kg	☼	10/23/23 12:59	50	AAT
Toluene	0.038	J	0.094	0.023	mg/Kg	☼	10/23/23 12:59	50	AAT
trans-1,2-Dichloroethene	0.017	U	0.094	0.017	mg/Kg	☼	10/23/23 12:59	50	AAT
trans-1,3-Dichloropropene	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT
Trichloroethene	0.021	U	0.094	0.021	mg/Kg	☼	10/23/23 12:59	50	AAT
Trichlorofluoromethane	0.030	U	0.094	0.030	mg/Kg	☼	10/23/23 12:59	50	AAT
Vinyl chloride	0.019	U	0.094	0.019	mg/Kg	☼	10/23/23 12:59	50	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	1.4	J N	mg/Kg	☼	11.64	95-63-6	10/23/23 12:59	50	AAT
Indane	7.7	J N	mg/Kg	☼	12.22	496-11-7	10/23/23 12:59	50	AAT
1H-Indene, 2,3-dihydro-4-methyl-	1.1	J N	mg/Kg	☼	13.10	824-22-6	10/23/23 12:59	50	AAT
Unknown	0.96	J N	mg/Kg	☼	13.23	N/A	10/23/23 12:59	50	AAT
2-Methylindene	1.6	J N	mg/Kg	☼	13.30	2177-47-1	10/23/23 12:59	50	AAT
Naphthalene	16	J N	mg/Kg	☼	13.58	91-20-3	10/23/23 12:59	50	AAT
Naphthalene, 2-methyl-	0.98	J N	mg/Kg	☼	14.37	91-57-6	10/23/23 12:59	50	AAT
Naphthalene, 1-methyl-	4.9	J N	mg/Kg	☼	14.50	90-12-0	10/23/23 12:59	50	AAT
Naphthalene, 2,6-dimethyl-	1.5	J N	mg/Kg	☼	15.28	581-42-0	10/23/23 12:59	50	AAT
Naphthalene, 1,6-dimethyl-	1.8	J N	mg/Kg	☼	15.43	575-43-9	10/23/23 12:59	50	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	132		68 - 150	10/23/23 12:59	50	AAT
4-Bromofluorobenzene	101		70 - 141	10/23/23 12:59	50	AAT
Dibromofluoromethane (Surr)	108		68 - 142	10/23/23 12:59	50	AAT
Toluene-d8 (Surr)	114		73 - 147	10/23/23 12:59	50	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.2		0.37	0.013	mg/Kg	☼	10/21/23 00:23	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.37	0.012	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,2'-oxybis[1-chloropropane]	0.022	U	0.37	0.022	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,3,4,6-Tetrachlorophenol	0.025	U	0.37	0.025	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,4-Dimethylphenol	0.045	U	0.37	0.045	mg/Kg	☼	10/21/23 00:23	1	MDJ
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	☼	10/21/23 00:23	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(20.0-20.5)

Lab Sample ID: 460-290738-3

Date Collected: 10/18/23 15:09

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 88.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dinitrotoluene	0.040	U	0.076	0.040	mg/Kg	✱	10/21/23 00:23	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.076	0.027	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Methylnaphthalene	1.9		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Nitroaniline	0.029	U	0.37	0.029	mg/Kg	✱	10/21/23 00:23	1	MDJ
2-Nitrophenol	0.038	U	0.37	0.038	mg/Kg	✱	10/21/23 00:23	1	MDJ
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	✱	10/21/23 00:23	1	MDJ
3-Nitroaniline	0.089	U	0.37	0.089	mg/Kg	✱	10/21/23 00:23	1	MDJ
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Chloroaniline	0.067	U	0.37	0.067	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Nitroaniline	0.043	U	0.37	0.043	mg/Kg	✱	10/21/23 00:23	1	MDJ
4-Nitrophenol	0.061	U	0.76	0.061	mg/Kg	✱	10/21/23 00:23	1	MDJ
Acenaphthene	6.3		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
Acenaphthylene	0.67		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
Acetophenone	0.018	U	0.37	0.018	mg/Kg	✱	10/21/23 00:23	1	MDJ
Anthracene	2.7		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
Atrazine	0.022	U++ UJ	0.15	0.022	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzaldehyde	0.062	U	0.37	0.062	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzo[a]anthracene	1.7		0.037	0.028	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzo[a]pyrene	1.5		0.037	0.010	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzo[b]fluoranthene	1.2		0.037	0.0097	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzo[g,h,i]perylene	0.60		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
Benzo[k]fluoranthene	0.37		0.037	0.0074	mg/Kg	✱	10/21/23 00:23	1	MDJ
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	✱	10/21/23 00:23	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.37	0.020	mg/Kg	✱	10/21/23 00:23	1	MDJ
Butyl benzyl phthalate	0.018	U	0.37	0.018	mg/Kg	✱	10/21/23 00:23	1	MDJ
Caprolactam	0.058	U	0.37	0.058	mg/Kg	✱	10/21/23 00:23	1	MDJ
Carbazole	0.42		0.37	0.014	mg/Kg	✱	10/21/23 00:23	1	MDJ
Chrysene	1.3		0.37	0.016	mg/Kg	✱	10/21/23 00:23	1	MDJ
Dibenz(a,h)anthracene	0.16		0.037	0.016	mg/Kg	✱	10/21/23 00:23	1	MDJ
Dibenzofuran	0.64		0.37	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	✱	10/21/23 00:23	1	MDJ
Dimethyl phthalate	0.085	U	0.37	0.085	mg/Kg	✱	10/21/23 00:23	1	MDJ
Di-n-butyl phthalate	0.087	J	0.37	0.014	mg/Kg	✱	10/21/23 00:23	1	MDJ
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	✱	10/21/23 00:23	1	MDJ
Fluoranthene	3.3		0.37	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
Fluorene	3.1		0.37	0.011	mg/Kg	✱	10/21/23 00:23	1	MDJ
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	✱	10/21/23 00:23	1	MDJ
Hexachlorobutadiene	0.0080	U	0.076	0.0080	mg/Kg	✱	10/21/23 00:23	1	MDJ
Hexachlorocyclopentadiene	R 0.033	U*	0.37	0.033	mg/Kg	✱	10/21/23 00:23	1	MDJ
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	✱	10/21/23 00:23	1	MDJ
Indeno[1,2,3-cd]pyrene	0.58		0.037	0.015	mg/Kg	✱	10/21/23 00:23	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-106(20.0-20.5)

Lab Sample ID: 460-290738-3

Date Collected: 10/18/23 15:09

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 88.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/21/23 00:23	1	MDJ
Nitrobenzene	0.021	U	0.037	0.021	mg/Kg	☼	10/21/23 00:23	1	MDJ
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☼	10/21/23 00:23	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.37	0.031	mg/Kg	☼	10/21/23 00:23	1	MDJ
Pentachlorophenol	0.077	U	0.30	0.077	mg/Kg	☼	10/21/23 00:23	1	MDJ
Phenol	0.014	U	0.37	0.014	mg/Kg	☼	10/21/23 00:23	1	MDJ
Pyrene	4.2		0.37	0.0093	mg/Kg	☼	10/21/23 00:23	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	2.6	J N	mg/Kg	☼	3.49	496-11-7	10/21/23 00:23	1	MDJ
2-Methylindene	1.0	J N	mg/Kg	☼	4.16	2177-47-1	10/21/23 00:23	1	MDJ
Naphthalene, 1-methyl-	6.6	J N	mg/Kg	☼	4.95	90-12-0	10/21/23 00:23	1	MDJ
Naphthalene, 2-ethyl-	1.9	J N	mg/Kg	☼	5.31	939-27-5	10/21/23 00:23	1	MDJ
Naphthalene, 2,7-dimethyl-	1.6	J N	mg/Kg	☼	5.36	582-16-1	10/21/23 00:23	1	MDJ
Naphthalene, 2,3-dimethyl-	2.3	J N	mg/Kg	☼	5.41	581-40-8	10/21/23 00:23	1	MDJ
Naphthalene, 1,7-dimethyl-	1.7	J N	mg/Kg	☼	5.50	575-37-1	10/21/23 00:23	1	MDJ
Unknown	0.94	J N	mg/Kg	☼	5.91	N/A	10/21/23 00:23	1	MDJ
Unknown	1.1	J N	mg/Kg	☼	6.06	N/A	10/21/23 00:23	1	MDJ
Benzene, [1-(2,4-cyclopentadien-1-ylidene)ethyl]-	1.0	J N	mg/Kg	☼	6.12	2320-32-3	10/21/23 00:23	1	MDJ
Unknown	1.0	J N	mg/Kg	☼	6.16	N/A	10/21/23 00:23	1	MDJ
Unknown	1.3	J N	mg/Kg	☼	6.20	N/A	10/21/23 00:23	1	MDJ
9H-Fluorene, 3-methyl-	1.1	J N	mg/Kg	☼	6.50	2523-39-9	10/21/23 00:23	1	MDJ
Anthracene, 9-methyl-	2.0	J N	mg/Kg	☼	7.16	779-02-2	10/21/23 00:23	1	MDJ
Phenanthrene, 2-methyl-	2.4	J N	mg/Kg	☼	7.19	2531-84-2	10/21/23 00:23	1	MDJ
Phenanthrene, 1-methyl-	1.1	J N	mg/Kg	☼	7.22	832-69-9	10/21/23 00:23	1	MDJ
Anthracene, 2-methyl-	1.4	J N	mg/Kg	☼	7.26	613-12-7	10/21/23 00:23	1	MDJ
Naphthalene, 2-phenyl-	0.99	J N	mg/Kg	☼	7.39	612-94-2	10/21/23 00:23	1	MDJ
Phenanthrene, 2,5-dimethyl-	1.5	J N	mg/Kg	☼	7.58	3674-66-6	10/21/23 00:23	1	MDJ
Unknown	1.4	J N	mg/Kg	☼	7.76	N/A	10/21/23 00:23	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	76		24 - 137	10/21/23 00:23	1	MDJ
2-Fluorobiphenyl	74		48 - 120	10/21/23 00:23	1	MDJ
2-Fluorophenol (Surr)	69		31 - 120	10/21/23 00:23	1	MDJ
Nitrobenzene-d5 (Surr)	69		38 - 120	10/21/23 00:23	1	MDJ
Phenol-d5 (Surr)	71		39 - 120	10/21/23 00:23	1	MDJ
Terphenyl-d14 (Surr)	77		25 - 126	10/21/23 00:23	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Naphthalene	12	D	0.75	0.013	mg/Kg	☼	10/22/23 01:02	2	YAH
Phenanthrene	9.1	D	0.75	0.031	mg/Kg	☼	10/22/23 01:02	2	YAH
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/22/23 01:02	2	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(15.0-15.5)

Lab Sample ID: 460-290738-4

Date Collected: 10/18/23 16:40

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.027	U	0.095	0.027	mg/Kg	✱	10/24/23 04:12	50	KLB
1,1,2,2-Tetrachloroethane	0.019	U	0.095	0.019	mg/Kg	✱	10/24/23 04:12	50	KLB
1,1,2-Trichloro-1,2,2-trifluoroethane	0.032	U	0.095	0.032	mg/Kg	✱	10/24/23 04:12	50	KLB
1,1,2-Trichloroethane	0.019	U	0.095	0.019	mg/Kg	✱	10/24/23 04:12	50	KLB
1,1-Dichloroethane	0.023	U	0.095	0.023	mg/Kg	✱	10/24/23 04:12	50	KLB
1,1-Dichloroethene	0.025	U	0.095	0.025	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2,3-Trichlorobenzene	0.033	U	0.095	0.033	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2,4-Trichlorobenzene	0.026	U	0.095	0.026	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2-Dibromo-3-Chloropropane	0.020	U	0.095	0.020	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2-Dichlorobenzene	0.021	U	0.095	0.021	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2-Dichloroethane	0.024	U	0.095	0.024	mg/Kg	✱	10/24/23 04:12	50	KLB
1,2-Dichloropropane	0.017	U	0.095	0.017	mg/Kg	✱	10/24/23 04:12	50	KLB
1,3-Dichlorobenzene	0.031	U	0.095	0.031	mg/Kg	✱	10/24/23 04:12	50	KLB
1,4-Dichlorobenzene	0.032	U	0.095	0.032	mg/Kg	✱	10/24/23 04:12	50	KLB
1,4-Dioxane	2.7	U	4.7	2.7	mg/Kg	✱	10/24/23 04:12	50	KLB
2-Butanone (MEK)	0.21	U	0.47	0.21	mg/Kg	✱	10/24/23 04:12	50	KLB
2-Hexanone	0.11	U	0.47	0.11	mg/Kg	✱	10/24/23 04:12	50	KLB
4-Methyl-2-pentanone (MIBK)	0.12	U	0.47	0.12	mg/Kg	✱	10/24/23 04:12	50	KLB
Acetone	0.42	U	0.47	0.42	mg/Kg	✱	10/24/23 04:12	50	KLB
Benzene	0.019	U	0.095	0.019	mg/Kg	✱	10/24/23 04:12	50	KLB
Bromoform	0.017	U	0.095	0.017	mg/Kg	✱	10/24/23 04:12	50	KLB
Bromomethane	0.053	U	0.095	0.053	mg/Kg	✱	10/24/23 04:12	50	KLB
Carbon disulfide	0.064	U	0.095	0.064	mg/Kg	✱	10/24/23 04:12	50	KLB
Carbon tetrachloride	0.031	U	0.095	0.031	mg/Kg	✱	10/24/23 04:12	50	KLB
Chlorobenzene	0.023	U	0.095	0.023	mg/Kg	✱	10/24/23 04:12	50	KLB
Chlorobromomethane	0.028	U	0.095	0.028	mg/Kg	✱	10/24/23 04:12	50	KLB
Chlorodibromomethane	0.021	U	0.095	0.021	mg/Kg	✱	10/24/23 04:12	50	KLB
Chloroethane	0.035	U	0.095	0.035	mg/Kg	✱	10/24/23 04:12	50	KLB
Chloroform	0.021	U	0.095	0.021	mg/Kg	✱	10/24/23 04:12	50	KLB
Chloromethane	0.038	U	0.095	0.038	mg/Kg	✱	10/24/23 04:12	50	KLB
cis-1,2-Dichloroethene	0.025	U	0.095	0.025	mg/Kg	✱	10/24/23 04:12	50	KLB
cis-1,3-Dichloropropene	0.021	U	0.095	0.021	mg/Kg	✱	10/24/23 04:12	50	KLB
Cyclohexane	0.13		0.095	0.025	mg/Kg	✱	10/24/23 04:12	50	KLB
Dichlorobromomethane	0.014	U	0.095	0.014	mg/Kg	✱	10/24/23 04:12	50	KLB
Dichlorodifluoromethane	0.029	U J	0.095	0.029	mg/Kg	✱	10/24/23 04:12	50	KLB
Ethylbenzene	2.7		0.095	0.028	mg/Kg	✱	10/24/23 04:12	50	KLB
Ethylene Dibromide	0.018	U	0.095	0.018	mg/Kg	✱	10/24/23 04:12	50	KLB
Isopropylbenzene	1.1		0.095	0.030	mg/Kg	✱	10/24/23 04:12	50	KLB
Methyl acetate	0.074	U	0.47	0.074	mg/Kg	✱	10/24/23 04:12	50	KLB
Methyl tert-butyl ether	0.020	U	0.095	0.020	mg/Kg	✱	10/24/23 04:12	50	KLB
Methylcyclohexane	1.4	J	0.095	0.069	mg/Kg	✱	10/24/23 04:12	50	KLB
Methylene Chloride	0.020	U	0.095	0.020	mg/Kg	✱	10/24/23 04:12	50	KLB
m-Xylene & p-Xylene	0.042	J	0.095	0.027	mg/Kg	✱	10/24/23 04:12	50	KLB
o-Xylene	0.25		0.095	0.030	mg/Kg	✱	10/24/23 04:12	50	KLB
Styrene	0.016	U	0.095	0.016	mg/Kg	✱	10/24/23 04:12	50	KLB
Tetrachloroethene	0.034	U	0.095	0.034	mg/Kg	✱	10/24/23 04:12	50	KLB
Toluene	0.024	U	0.095	0.024	mg/Kg	✱	10/24/23 04:12	50	KLB
trans-1,2-Dichloroethene	0.017	U	0.095	0.017	mg/Kg	✱	10/24/23 04:12	50	KLB
trans-1,3-Dichloropropene	0.021	U	0.095	0.021	mg/Kg	✱	10/24/23 04:12	50	KLB

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(15.0-15.5)

Lab Sample ID: 460-290738-4

Date Collected: 10/18/23 16:40

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.021	U	0.095	0.021	mg/Kg	☼	10/24/23 04:12	50	KLB
Trichlorofluoromethane	0.030	U	0.095	0.030	mg/Kg	☼	10/24/23 04:12	50	KLB
Vinyl chloride	0.019	U	0.095	0.019	mg/Kg	☼	10/24/23 04:12	50	KLB

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-2-methyl-	1.9	J N	mg/Kg	☼	11.42	611-14-3	10/24/23 04:12	50	KLB
Benzene, 1,2-diethyl-	2.8	J N	mg/Kg	☼	12.25	135-01-3	10/24/23 04:12	50	KLB
Unknown	1.9	J N	mg/Kg	☼	12.32	N/A	10/24/23 04:12	50	KLB
Benzene, 1-ethenyl-3-ethyl-	2.6	J N	mg/Kg	☼	12.69	7525-62-4	10/24/23 04:12	50	KLB
Benzene, 2-ethenyl-1,4-dimethyl-	2.7	J N	mg/Kg	☼	13.10	2039-89-6	10/24/23 04:12	50	KLB
1H-Indene, 1-methyl-	1.9	J N	mg/Kg	☼	13.23	767-59-9	10/24/23 04:12	50	KLB
Unknown	2.8	J N	mg/Kg	☼	13.29	N/A	10/24/23 04:12	50	KLB
1H-Indene, 2,3-dihydro-2,2-dimethyl-	1.9	J N	mg/Kg	☼	13.39	20836-11-7	10/24/23 04:12	50	KLB
1H-Indene, 2,3-dihydro-1,6-dimethyl-	2.0	J N	mg/Kg	☼	13.49	17059-48-2	10/24/23 04:12	50	KLB
Naphthalene, 2-methyl-	4.1	J N	mg/Kg	☼	14.50	91-57-6	10/24/23 04:12	50	KLB

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	140		68 - 150	10/24/23 04:12	50	KLB
4-Bromofluorobenzene	100		70 - 141	10/24/23 04:12	50	KLB
Dibromofluoromethane (Surr)	110		68 - 142	10/24/23 04:12	50	KLB
Toluene-d8 (Surr)	116		73 - 147	10/24/23 04:12	50	KLB

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.0		0.38	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4-Dimethylphenol	0.045	U	0.38	0.045	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☼	10/21/23 00:41	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.077	0.027	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Methylnaphthalene	0.91		0.38	0.011	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☼	10/21/23 00:41	1	MDJ
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☼	10/21/23 00:41	1	MDJ
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	☼	10/21/23 00:41	1	MDJ
3-Nitroaniline	0.090	U	0.38	0.090	mg/Kg	☼	10/21/23 00:41	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Chloroaniline	0.067	U	0.38	0.067	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☼	10/21/23 00:41	1	MDJ
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☼	10/21/23 00:41	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(15.0-15.5)

Lab Sample ID: 460-290738-4

Date Collected: 10/18/23 16:40

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 86.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☼	10/21/23 00:41	1	MDJ
Acenaphthene	5.0		0.38	0.011	mg/Kg	☼	10/21/23 00:41	1	MDJ
Acenaphthylene	0.67		0.38	0.011	mg/Kg	☼	10/21/23 00:41	1	MDJ
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☼	10/21/23 00:41	1	MDJ
Anthracene	2.7		0.38	0.012	mg/Kg	☼	10/21/23 00:41	1	MDJ
Atrazine	0.022	U → UJ	0.15	0.022	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzo[a]anthracene	1.9		0.038	0.029	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzo[a]pyrene	1.7		0.038	0.010	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzo[b]fluoranthene	1.3		0.038	0.0098	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzo[g,h,i]perylene	0.64		0.38	0.011	mg/Kg	☼	10/21/23 00:41	1	MDJ
Benzo[k]fluoranthene	0.49		0.038	0.0075	mg/Kg	☼	10/21/23 00:41	1	MDJ
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	☼	10/21/23 00:41	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	☼	10/21/23 00:41	1	MDJ
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☼	10/21/23 00:41	1	MDJ
Caprolactam	0.059	U	0.38	0.059	mg/Kg	☼	10/21/23 00:41	1	MDJ
Carbazole	0.20	J	0.38	0.014	mg/Kg	☼	10/21/23 00:41	1	MDJ
Chrysene	1.6		0.38	0.016	mg/Kg	☼	10/21/23 00:41	1	MDJ
Dibenz(a,h)anthracene	0.13		0.038	0.016	mg/Kg	☼	10/21/23 00:41	1	MDJ
Dibenzofuran	0.59		0.38	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☼	10/21/23 00:41	1	MDJ
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	☼	10/21/23 00:41	1	MDJ
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☼	10/21/23 00:41	1	MDJ
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☼	10/21/23 00:41	1	MDJ
Fluoranthene	3.6		0.38	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
Fluorene	2.6		0.38	0.011	mg/Kg	☼	10/21/23 00:41	1	MDJ
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	☼	10/21/23 00:41	1	MDJ
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	☼	10/21/23 00:41	1	MDJ
Hexachlorocyclopentadiene	R 0.033	U *	0.38	0.033	mg/Kg	☼	10/21/23 00:41	1	MDJ
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	☼	10/21/23 00:41	1	MDJ
Indeno[1,2,3-cd]pyrene	0.69		0.038	0.015	mg/Kg	☼	10/21/23 00:41	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/21/23 00:41	1	MDJ
Naphthalene	4.8		0.38	0.0066	mg/Kg	☼	10/21/23 00:41	1	MDJ
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	☼	10/21/23 00:41	1	MDJ
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	☼	10/21/23 00:41	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	☼	10/21/23 00:41	1	MDJ
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	☼	10/21/23 00:41	1	MDJ
Phenanthrene	8.9		0.38	0.016	mg/Kg	☼	10/21/23 00:41	1	MDJ
Phenol	0.014	U	0.38	0.014	mg/Kg	☼	10/21/23 00:41	1	MDJ
Pyrene	4.8		0.38	0.0094	mg/Kg	☼	10/21/23 00:41	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	5.9	J N	mg/Kg	☼	4.95	90-12-0	10/21/23 00:41	1	MDJ
Naphthalene, 1,5-dimethyl-	1.3	J N	mg/Kg	☼	5.36	571-61-9	10/21/23 00:41	1	MDJ
Naphthalene, 2,3-dimethyl-	2.5	J N	mg/Kg	☼	5.41	581-40-8	10/21/23 00:41	1	MDJ
Naphthalene, 1,6-dimethyl-	2.6	J N	mg/Kg	☼	5.50	575-43-9	10/21/23 00:41	1	MDJ
Unknown	1.9	J N	mg/Kg	☼	5.91	N/A	10/21/23 00:41	1	MDJ
Naphthalene, 1,6,7-trimethyl-	1.3	J N	mg/Kg	☼	5.99	2245-38-7	10/21/23 00:41	1	MDJ
Unknown	1.4	J N	mg/Kg	☼	6.06	N/A	10/21/23 00:41	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-112(15.0-15.5)

Lab Sample ID: 460-290738-4

Date Collected: 10/18/23 16:40

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 86.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, [1-(2,4-cyclopentadien-1-ylidene)ethyl]-	1.7	J N	mg/Kg	☼	6.12	2320-32-3	10/21/23 00:41	1	MDJ
Tridecane, 5-propyl-	2.3	J N	mg/Kg	☼	6.21	55045-11-9	10/21/23 00:41	1	MDJ
Pentadecane, 2,6,10,14-tetramethyl-	3.5	J N	mg/Kg	☼	6.41	1921-70-6	10/21/23 00:41	1	MDJ
9H-Fluorene, 1-methyl-	1.6	J N	mg/Kg	☼	6.50	1730-37-6	10/21/23 00:41	1	MDJ
Hexadecane	2.2	J N	mg/Kg	☼	6.76	544-76-3	10/21/23 00:41	1	MDJ
Tetradecane	2.1	J N	mg/Kg	☼	7.03	629-59-4	10/21/23 00:41	1	MDJ
Phenanthrene, 2-methyl-	3.1	J N	mg/Kg	☼	7.17	2531-84-2	10/21/23 00:41	1	MDJ
Anthracene, 2-methyl-	3.2	J N	mg/Kg	☼	7.19	613-12-7	10/21/23 00:41	1	MDJ
Unknown	3.9	J N	mg/Kg	☼	7.24	N/A	10/21/23 00:41	1	MDJ
Phenanthrene, 1-methyl-	2.2	J N	mg/Kg	☼	7.27	832-69-9	10/21/23 00:41	1	MDJ
Naphthalene, 2-phenyl-	1.9	J N	mg/Kg	☼	7.39	612-94-2	10/21/23 00:41	1	MDJ
9,10-Dimethylanthracene	2.5	J N	mg/Kg	☼	7.58	781-43-1	10/21/23 00:41	1	MDJ
Unknown	1.4	J N	mg/Kg	☼	7.76	N/A	10/21/23 00:41	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	86		24 - 137	10/21/23 00:41	1	MDJ
2-Fluorobiphenyl	85		48 - 120	10/21/23 00:41	1	MDJ
2-Fluorophenol (Surr)	80		31 - 120	10/21/23 00:41	1	MDJ
Nitrobenzene-d5 (Surr)	79		38 - 120	10/21/23 00:41	1	MDJ
Phenol-d5 (Surr)	83		39 - 120	10/21/23 00:41	1	MDJ
Terphenyl-d14 (Surr)	88		25 - 126	10/21/23 00:41	1	MDJ

Client Sample ID: SB-107(12.5-13)

Lab Sample ID: 460-290738-5

Date Collected: 10/19/23 09:51

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00090	0.00021	mg/Kg	☼	10/27/23 19:13	1	MZS
1,1,2,2-Tetrachloroethane	0.00019	U	0.00090	0.00019	mg/Kg	☼	10/27/23 19:13	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00090	0.00027	mg/Kg	☼	10/27/23 19:13	1	MZS
1,1,2-Trichloroethane	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/27/23 19:13	1	MZS
1,1-Dichloroethane	0.00019	U	0.00090	0.00019	mg/Kg	☼	10/27/23 19:13	1	MZS
1,1-Dichloroethene	0.00020	U	0.00090	0.00020	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2,3-Trichlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2,4-Trichlorobenzene	0.00032	U	0.00090	0.00032	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00090	0.00042	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2-Dichloroethane	0.00027	U	0.00090	0.00027	mg/Kg	☼	10/27/23 19:13	1	MZS
1,2-Dichloropropane	0.00038	U	0.00090	0.00038	mg/Kg	☼	10/27/23 19:13	1	MZS
1,3-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	☼	10/27/23 19:13	1	MZS
1,4-Dichlorobenzene	0.00020	U	0.00090	0.00020	mg/Kg	☼	10/27/23 19:13	1	MZS
1,4-Dioxane	0.0083	U	0.090	0.0083	mg/Kg	☼	10/27/23 19:13	1	MZS
2-Butanone (MEK)	0.013		0.0045	0.00033	mg/Kg	☼	10/27/23 19:13	1	MZS
2-Hexanone	0.0015	U	0.0045	0.0015	mg/Kg	☼	10/27/23 19:13	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	☼	10/27/23 19:13	1	MZS
Acetone	0.036	J	0.0054	0.0052	mg/Kg	☼	10/27/23 19:13	1	MZS
Benzene	0.0040		0.00090	0.00023	mg/Kg	☼	10/27/23 19:13	1	MZS
Bromoform	0.00038	U	0.00090	0.00038	mg/Kg	☼	10/27/23 19:13	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(12.5-13)

Lab Sample ID: 460-290738-5

Date Collected: 10/19/23 09:51

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bromomethane	0.00090	U	0.0018	0.00090	mg/Kg	☼	10/27/23 19:13	1	MZS
Carbon disulfide	0.0093		0.00090	0.00024	mg/Kg	☼	10/27/23 19:13	1	MZS
Carbon tetrachloride	0.00035	U	0.00090	0.00035	mg/Kg	☼	10/27/23 19:13	1	MZS
Chlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/27/23 19:13	1	MZS
Chlorobromomethane	0.00025	U	0.00090	0.00025	mg/Kg	☼	10/27/23 19:13	1	MZS
Chlorodibromomethane	0.00018	U	0.00090	0.00018	mg/Kg	☼	10/27/23 19:13	1	MZS
Chloroethane	0.00047	U	0.00090	0.00047	mg/Kg	☼	10/27/23 19:13	1	MZS
Chloroform	0.00088	U	0.00090	0.00088	mg/Kg	☼	10/27/23 19:13	1	MZS
Chloromethane	0.00039	U	0.00090	0.00039	mg/Kg	☼	10/27/23 19:13	1	MZS
cis-1,2-Dichloroethene	0.00032	U	0.00090	0.00032	mg/Kg	☼	10/27/23 19:13	1	MZS
cis-1,3-Dichloropropene	0.00025	U	0.00090	0.00025	mg/Kg	☼	10/27/23 19:13	1	MZS
Cyclohexane	0.00042	J	0.00090	0.00020	mg/Kg	☼	10/27/23 19:13	1	MZS
Dichlorobromomethane	0.00023	U	0.00090	0.00023	mg/Kg	☼	10/27/23 19:13	1	MZS
Dichlorodifluoromethane	0.00031	U	0.00090	0.00031	mg/Kg	☼	10/27/23 19:13	1	MZS
Ethylbenzene	0.047		0.00090	0.00018	mg/Kg	☼	10/27/23 19:13	1	MZS
Ethylene Dibromide	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/27/23 19:13	1	MZS
Isopropylbenzene	0.018		0.00090	0.00026	mg/Kg	☼	10/27/23 19:13	1	MZS
Methyl acetate	0.0039	U	0.0045	0.0039	mg/Kg	☼	10/27/23 19:13	1	MZS
Methyl tert-butyl ether	0.00046	U	0.00090	0.00046	mg/Kg	☼	10/27/23 19:13	1	MZS
Methylcyclohexane	0.0027		0.00090	0.00045	mg/Kg	☼	10/27/23 19:13	1	MZS
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	☼	10/27/23 19:13	1	MZS
m-Xylene & p-Xylene	0.0051		0.00090	0.00016	mg/Kg	☼	10/27/23 19:13	1	MZS
o-Xylene	0.0076		0.00090	0.00018	mg/Kg	☼	10/27/23 19:13	1	MZS
Styrene	0.0015		0.00090	0.00025	mg/Kg	☼	10/27/23 19:13	1	MZS
Tetrachloroethene	0.00028	U	0.00090	0.00028	mg/Kg	☼	10/27/23 19:13	1	MZS
Toluene	0.0011		0.00090	0.00021	mg/Kg	☼	10/27/23 19:13	1	MZS
trans-1,2-Dichloroethene	0.00022	U	0.00090	0.00022	mg/Kg	☼	10/27/23 19:13	1	MZS
trans-1,3-Dichloropropene	0.00024	U	0.00090	0.00024	mg/Kg	☼	10/27/23 19:13	1	MZS
Trichloroethene	0.00029	U	0.00090	0.00029	mg/Kg	☼	10/27/23 19:13	1	MZS
Trichlorofluoromethane	0.00037	U	0.00090	0.00037	mg/Kg	☼	10/27/23 19:13	1	MZS
Vinyl chloride	0.00049	U	0.00090	0.00049	mg/Kg	☼	10/27/23 19:13	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	0.078	J N	mg/Kg	☼	10.64	95-63-6	10/27/23 19:13	1	MZS
Benzene, 1-methyl-4-(1-methylethyl)-	0.087	J N	mg/Kg	☼	11.51	99-87-6	10/27/23 19:13	1	MZS
Benzene, 1-methyl-2-(1-methylethyl)-	0.11	J N	mg/Kg	☼	11.57	527-84-4	10/27/23 19:13	1	MZS
Benzene, 1,2,4,5-tetramethyl-	0.071	J N	mg/Kg	☼	11.92	95-93-2	10/27/23 19:13	1	MZS
Unknown	0.096	J N	mg/Kg	☼	12.23	N/A	10/27/23 19:13	1	MZS
2-Methylindene	0.11	J N	mg/Kg	☼	12.27	2177-47-1	10/27/23 19:13	1	MZS
Undecane, 2,6-dimethyl-	0.15	J N	mg/Kg	☼	12.34	17301-23-4	10/27/23 19:13	1	MZS
Naphthalene	0.072	J N	mg/Kg	☼	12.67	91-20-3	10/27/23 19:13	1	MZS
Heptadecane, 2,6-dimethyl-	0.062	J N	mg/Kg	☼	12.77	54105-67-8	10/27/23 19:13	1	MZS
Naphthalene, 1-methyl-	0.22	J N	mg/Kg	☼	13.59	90-12-0	10/27/23 19:13	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	88		72 - 138	10/27/23 19:13	1	MZS
4-Bromofluorobenzene	100		63 - 139	10/27/23 19:13	1	MZS
Dibromofluoromethane (Surr)	95		54 - 150	10/27/23 19:13	1	MZS
Toluene-d8 (Surr)	103		71 - 126	10/27/23 19:13	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(12.5-13)

Lab Sample ID: 460-290738-5

Date Collected: 10/19/23 09:51

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 89.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	5.1		0.37	0.013	mg/Kg	✱	10/21/23 00:58	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.37	0.012	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,2'-oxybis[1-chloropropane]	0.022	U	0.37	0.022	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,3,4,6-Tetrachlorophenol	0.025	U	0.37	0.025	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4,6-Trichlorophenol	0.047	U	0.15	0.047	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4-Dimethylphenol	0.044	U UJ	0.37	0.044	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,4-Dinitrotoluene	0.040	U	0.075	0.040	mg/Kg	✱	10/21/23 00:58	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.075	0.027	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Methylnaphthalene	0.29	J	0.37	0.010	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Nitroaniline	0.028	U	0.37	0.028	mg/Kg	✱	10/21/23 00:58	1	MDJ
2-Nitrophenol	0.037	U	0.37	0.037	mg/Kg	✱	10/21/23 00:58	1	MDJ
3,3'-Dichlorobenzidine	0.056	U	0.15	0.056	mg/Kg	✱	10/21/23 00:58	1	MDJ
3-Nitroaniline	0.088	U	0.37	0.088	mg/Kg	✱	10/21/23 00:58	1	MDJ
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Chloroaniline	0.066	U	0.37	0.066	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Nitroaniline	0.042	U	0.37	0.042	mg/Kg	✱	10/21/23 00:58	1	MDJ
4-Nitrophenol	0.060	U	0.75	0.060	mg/Kg	✱	10/21/23 00:58	1	MDJ
Acenaphthylene	5.1		0.37	0.011	mg/Kg	✱	10/21/23 00:58	1	MDJ
Acetophenone	0.018	U	0.37	0.018	mg/Kg	✱	10/21/23 00:58	1	MDJ
Atrazine	0.022	U UJ	0.15	0.022	mg/Kg	✱	10/21/23 00:58	1	MDJ
Benzaldehyde	0.061	U	0.37	0.061	mg/Kg	✱	10/21/23 00:58	1	MDJ
Benzo[g,h,i]perylene	4.7		0.37	0.011	mg/Kg	✱	10/21/23 00:58	1	MDJ
Benzo[k]fluoranthene	3.5		0.037	0.0072	mg/Kg	✱	10/21/23 00:58	1	MDJ
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	✱	10/21/23 00:58	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	✱	10/21/23 00:58	1	MDJ
Bis(2-ethylhexyl) phthalate	0.067	J	0.37	0.020	mg/Kg	✱	10/21/23 00:58	1	MDJ
Butyl benzyl phthalate	0.017	U	0.37	0.017	mg/Kg	✱	10/21/23 00:58	1	MDJ
Caprolactam	0.058	U	0.37	0.058	mg/Kg	✱	10/21/23 00:58	1	MDJ
Carbazole	0.73		0.37	0.014	mg/Kg	✱	10/21/23 00:58	1	MDJ
Dibenz(a,h)anthracene	1.2		0.037	0.016	mg/Kg	✱	10/21/23 00:58	1	MDJ
Dibenzofuran	4.9		0.37	0.012	mg/Kg	✱	10/21/23 00:58	1	MDJ
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	✱	10/21/23 00:58	1	MDJ
Dimethyl phthalate	0.084	U	0.37	0.084	mg/Kg	✱	10/21/23 00:58	1	MDJ
Di-n-butyl phthalate	0.014	U	0.37	0.014	mg/Kg	✱	10/21/23 00:58	1	MDJ
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	✱	10/21/23 00:58	1	MDJ
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	✱	10/21/23 00:58	1	MDJ
Hexachlorobutadiene	0.0079	U	0.075	0.0079	mg/Kg	✱	10/21/23 00:58	1	MDJ
Hexachlorocyclopentadiene	R 0.032	U *	0.37	0.032	mg/Kg	✱	10/21/23 00:58	1	MDJ
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	✱	10/21/23 00:58	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(12.5-13)

Lab Sample ID: 460-290738-5

Date Collected: 10/19/23 09:51

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 89.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Indeno[1,2,3-cd]pyrene	5.2		0.037	0.014	mg/Kg	☼	10/21/23 00:58	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/21/23 00:58	1	MDJ
Naphthalene	1.7		0.37	0.0064	mg/Kg	☼	10/21/23 00:58	1	MDJ
Nitrobenzene	0.020	U	0.037	0.020	mg/Kg	☼	10/21/23 00:58	1	MDJ
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☼	10/21/23 00:58	1	MDJ
N-Nitrosodiphenylamine	0.030	U	0.37	0.030	mg/Kg	☼	10/21/23 00:58	1	MDJ
Pentachlorophenol	0.076	U	0.30	0.076	mg/Kg	☼	10/21/23 00:58	1	MDJ
Phenol	0.014	U	0.37	0.014	mg/Kg	☼	10/21/23 00:58	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	18	J N	mg/Kg	☼	4.96	90-12-0	10/21/23 00:58	1	MDJ
Unknown	10	J N	mg/Kg	☼	6.26	N/A	10/21/23 00:58	1	MDJ
9H-Fluorene, 2-methyl-	15	J N	mg/Kg	☼	6.50	1430-97-3	10/21/23 00:58	1	MDJ
Dibenzothiophene	12	J N	mg/Kg	☼	6.71	132-65-0	10/21/23 00:58	1	MDJ
Anthracene, 9-methyl-	25	J N	mg/Kg	☼	7.18	779-02-2	10/21/23 00:58	1	MDJ
Phenanthrene, 1-methyl-	31	J N	mg/Kg	☼	7.20	832-69-9	10/21/23 00:58	1	MDJ
Phenanthrene, 2-methyl-	13	J N	mg/Kg	☼	7.24	2531-84-2	10/21/23 00:58	1	MDJ
Unknown	37	J N	mg/Kg	☼	7.26	N/A	10/21/23 00:58	1	MDJ
Naphthalene, 2-phenyl-	17	J N	mg/Kg	☼	7.40	612-94-2	10/21/23 00:58	1	MDJ
Phenanthrene, 4,5-dimethyl-	7.9	J N	mg/Kg	☼	7.51	3674-69-9	10/21/23 00:58	1	MDJ
Phenanthrene, 2,5-dimethyl-	20	J N	mg/Kg	☼	7.60	3674-66-6	10/21/23 00:58	1	MDJ
Unknown	22	J N	mg/Kg	☼	7.62	N/A	10/21/23 00:58	1	MDJ
2,4(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylethy	9.4	J N	mg/Kg	☼	7.67	314-42-1	10/21/23 00:58	1	MDJ
Benzene, 1,1'-(1,3-butadiene-1,4-diyl)bis-	21	J N	mg/Kg	☼	7.78	886-66-8	10/21/23 00:58	1	MDJ
11H-Benzo[a]fluorene	12	J N	mg/Kg	☼	8.04	238-84-6	10/21/23 00:58	1	MDJ
11H-Benzo[b]fluorene	22	J N	mg/Kg	☼	8.13	243-17-4	10/21/23 00:58	1	MDJ
Fluoranthene, 2-methyl-	15	J N	mg/Kg	☼	8.18	33543-31-6	10/21/23 00:58	1	MDJ
Pyrene, 4-methyl-	11	J N	mg/Kg	☼	8.21	3353-12-6	10/21/23 00:58	1	MDJ
Pyrene, 2-methyl-	9.8	J N	mg/Kg	☼	8.27	3442-78-2	10/21/23 00:58	1	MDJ
Pyrene, 1-methyl-	11	J N	mg/Kg	☼	8.30	2381-21-7	10/21/23 00:58	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	67		24 - 137	10/21/23 00:58	1	MDJ
2-Fluorobiphenyl	67		48 - 120	10/21/23 00:58	1	MDJ
2-Fluorophenol (Surr)	63		31 - 120	10/21/23 00:58	1	MDJ
Nitrobenzene-d5 (Surr)	65		38 - 120	10/21/23 00:58	1	MDJ
Phenol-d5 (Surr)	67		39 - 120	10/21/23 00:58	1	MDJ
Terphenyl-d14 (Surr)	68		25 - 126	10/21/23 00:58	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	26	D	3.7	0.11	mg/Kg	☼	10/22/23 02:09	10	YAH
Anthracene	19	D	3.7	0.11	mg/Kg	☼	10/22/23 02:09	10	YAH
Benzo[a]anthracene	15	D	0.37	0.28	mg/Kg	☼	10/22/23 02:09	10	YAH
Benzo[a]pyrene	14	D	0.37	0.098	mg/Kg	☼	10/22/23 02:09	10	YAH
Benzo[b]fluoranthene	11	D	0.37	0.096	mg/Kg	☼	10/22/23 02:09	10	YAH
Chrysene	12	D	3.7	0.16	mg/Kg	☼	10/22/23 02:09	10	YAH
Fluoranthene	31	D	3.7	0.13	mg/Kg	☼	10/22/23 02:09	10	YAH
Fluorene	20	D	3.7	0.11	mg/Kg	☼	10/22/23 02:09	10	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(12.5-13)

Lab Sample ID: 460-290738-5

Date Collected: 10/19/23 09:51

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 89.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Phenanthrene	67	D	3.7	0.15	mg/Kg	☆	10/22/23 02:09	10	YAH
Pyrene	36	D	3.7	0.092	mg/Kg	☆	10/22/23 02:09	10	YAH
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	10/22/23 02:09	10	YAH

Client Sample ID: SB-107(15-16)

Lab Sample ID: 460-290738-6

Date Collected: 10/19/23 10:56

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00022	U	0.00094	0.00022	mg/Kg	☆	10/27/23 19:36	1	MZS
1,1,2,2-Tetrachloroethane	0.00020	U	0.00094	0.00020	mg/Kg	☆	10/27/23 19:36	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00094	0.00028	mg/Kg	☆	10/27/23 19:36	1	MZS
1,1,2-Trichloroethane	0.00017	U- JJ	0.00094	0.00017	mg/Kg	☆	10/27/23 19:36	1	MZS
1,1-Dichloroethane	0.00019	U	0.00094	0.00019	mg/Kg	☆	10/27/23 19:36	1	MZS
1,1-Dichloroethene	0.00021	U	0.00094	0.00021	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2,3-Trichlorobenzene	0.00017	U	0.00094	0.00017	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2,4-Trichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2-Dibromo-3-Chloropropane	0.00043	U	0.00094	0.00043	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2-Dichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2-Dichloroethane	0.00028	U	0.00094	0.00028	mg/Kg	☆	10/27/23 19:36	1	MZS
1,2-Dichloropropane	0.00040	U	0.00094	0.00040	mg/Kg	☆	10/27/23 19:36	1	MZS
1,3-Dichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	10/27/23 19:36	1	MZS
1,4-Dichlorobenzene	0.00021	U	0.00094	0.00021	mg/Kg	☆	10/27/23 19:36	1	MZS
1,4-Dioxane	0.0086	U	0.094	0.0086	mg/Kg	☆	10/27/23 19:36	1	MZS
2-Butanone (MEK)	0.0050		0.0047	0.00035	mg/Kg	☆	10/27/23 19:36	1	MZS
2-Hexanone	0.0016	U	0.0047	0.0016	mg/Kg	☆	10/27/23 19:36	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0047	0.0015	mg/Kg	☆	10/27/23 19:36	1	MZS
Acetone	0.018	J	0.0056	0.0054	mg/Kg	☆	10/27/23 19:36	1	MZS
Benzene	0.072		0.00094	0.00024	mg/Kg	☆	10/27/23 19:36	1	MZS
Bromoform	0.00040	U	0.00094	0.00040	mg/Kg	☆	10/27/23 19:36	1	MZS
Bromomethane	0.00094	U	0.0019	0.00094	mg/Kg	☆	10/27/23 19:36	1	MZS
Carbon disulfide	0.0051		0.00094	0.00025	mg/Kg	☆	10/27/23 19:36	1	MZS
Carbon tetrachloride	0.00036	U	0.00094	0.00036	mg/Kg	☆	10/27/23 19:36	1	MZS
Chlorobenzene	0.00017	U	0.00094	0.00017	mg/Kg	☆	10/27/23 19:36	1	MZS
Chlorobromomethane	0.00026	U	0.00094	0.00026	mg/Kg	☆	10/27/23 19:36	1	MZS
Chlorodibromomethane	0.00018	U	0.00094	0.00018	mg/Kg	☆	10/27/23 19:36	1	MZS
Chloroethane	0.00049	U	0.00094	0.00049	mg/Kg	☆	10/27/23 19:36	1	MZS
Chloroform	0.00091	U	0.00094	0.00091	mg/Kg	☆	10/27/23 19:36	1	MZS
Chloromethane	0.00041	U	0.00094	0.00041	mg/Kg	☆	10/27/23 19:36	1	MZS
cis-1,2-Dichloroethene	0.00034	U	0.00094	0.00034	mg/Kg	☆	10/27/23 19:36	1	MZS
cis-1,3-Dichloropropene	0.00026	U	0.00094	0.00026	mg/Kg	☆	10/27/23 19:36	1	MZS
Cyclohexane	0.0024		0.00094	0.00021	mg/Kg	☆	10/27/23 19:36	1	MZS
Dichlorobromomethane	0.00024	U	0.00094	0.00024	mg/Kg	☆	10/27/23 19:36	1	MZS
Dichlorodifluoromethane	0.00032	U	0.00094	0.00032	mg/Kg	☆	10/27/23 19:36	1	MZS
Ethylbenzene	0.37		0.00094	0.00019	mg/Kg	☆	10/27/23 19:36	1	MZS
Ethylene Dibromide	0.00017	U	0.00094	0.00017	mg/Kg	☆	10/27/23 19:36	1	MZS
Isopropylbenzene	0.054		0.00094	0.00027	mg/Kg	☆	10/27/23 19:36	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(15-16)

Lab Sample ID: 460-290738-6

Date Collected: 10/19/23 10:56

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Methyl acetate	0.0040	U	0.0047	0.0040	mg/Kg	☼	10/27/23 19:36	1	MZS
Methyl tert-butyl ether	0.00048	U	0.00094	0.00048	mg/Kg	☼	10/27/23 19:36	1	MZS
Methylcyclohexane	0.0088		0.00094	0.00047	mg/Kg	☼	10/27/23 19:36	1	MZS
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☼	10/27/23 19:36	1	MZS
m-Xylene & p-Xylene	0.033		0.00094	0.00016	mg/Kg	☼	10/27/23 19:36	1	MZS
o-Xylene	0.051		0.00094	0.00018	mg/Kg	☼	10/27/23 19:36	1	MZS
Styrene	0.00026	U	0.00094	0.00026	mg/Kg	☼	10/27/23 19:36	1	MZS
Tetrachloroethene	0.00029	U	0.00094	0.00029	mg/Kg	☼	10/27/23 19:36	1	MZS
Toluene	0.0098		0.00094	0.00022	mg/Kg	☼	10/27/23 19:36	1	MZS
trans-1,2-Dichloroethene	0.00023	U	0.00094	0.00023	mg/Kg	☼	10/27/23 19:36	1	MZS
trans-1,3-Dichloropropene	0.00025	U	0.00094	0.00025	mg/Kg	☼	10/27/23 19:36	1	MZS
Trichloroethene	0.00030	U	0.00094	0.00030	mg/Kg	☼	10/27/23 19:36	1	MZS
Trichlorofluoromethane	0.00038	U	0.00094	0.00038	mg/Kg	☼	10/27/23 19:36	1	MZS
Vinyl chloride	0.00051	U	0.00094	0.00051	mg/Kg	☼	10/27/23 19:36	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	0.22	J N	mg/Kg	☼	10.64	95-63-6	10/27/23 19:36	1	MZS
Indane	0.44	J N	mg/Kg	☼	11.17	496-11-7	10/27/23 19:36	1	MZS
Indene	0.11	J N	mg/Kg	☼	11.35	95-13-6	10/27/23 19:36	1	MZS
Benzene, 1-methyl-2-(1-methylethyl)-	0.12	J N	mg/Kg	☼	11.51	527-84-4	10/27/23 19:36	1	MZS
Benzene, 4-ethyl-1,2-dimethyl-	0.16	J N	mg/Kg	☼	11.57	934-80-5	10/27/23 19:36	1	MZS
Unknown	0.15	J N	mg/Kg	☼	12.23	N/A	10/27/23 19:36	1	MZS
Unknown	0.19	J N	mg/Kg	☼	12.27	N/A	10/27/23 19:36	1	MZS
2-Methylindene	0.30	J N	mg/Kg	☼	12.35	2177-47-1	10/27/23 19:36	1	MZS
Naphthalene	0.20	J N	mg/Kg	☼	12.67	91-20-3	10/27/23 19:36	1	MZS
Naphthalene, 1-methyl-	0.34	J N	mg/Kg	☼	13.59	90-12-0	10/27/23 19:36	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	89		72 - 138	10/27/23 19:36	1	MZS
4-Bromofluorobenzene	97		63 - 139	10/27/23 19:36	1	MZS
Dibromofluoromethane (Surr)	100		54 - 150	10/27/23 19:36	1	MZS
Toluene-d8 (Surr)	104		71 - 126	10/27/23 19:36	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	3.4		0.40	0.014	mg/Kg	☼	10/21/23 01:16	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.40	0.012	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,2'-oxybis[1-chloropropane]	0.024	U	0.40	0.024	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,3,4,6-Tetrachlorophenol	0.027	U	0.40	0.027	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4,5-Trichlorophenol	0.041	U	0.40	0.041	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4,6-Trichlorophenol	0.051	U	0.16	0.051	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4-Dichlorophenol	0.025	U	0.16	0.025	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4-Dimethylphenol	0.047	U	0.40	0.047	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4-Dinitrophenol	0.20	U	0.32	0.20	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,4-Dinitrotoluene	0.043	U	0.081	0.043	mg/Kg	☼	10/21/23 01:16	1	MDJ
2,6-Dinitrotoluene	0.029	U	0.081	0.029	mg/Kg	☼	10/21/23 01:16	1	MDJ
2-Chloronaphthalene	0.018	U	0.40	0.018	mg/Kg	☼	10/21/23 01:16	1	MDJ
2-Chlorophenol	0.014	U	0.40	0.014	mg/Kg	☼	10/21/23 01:16	1	MDJ
2-Methylnaphthalene	0.32	J	0.40	0.011	mg/Kg	☼	10/21/23 01:16	1	MDJ
2-Methylphenol	0.015	U	0.40	0.015	mg/Kg	☼	10/21/23 01:16	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(15-16)

Lab Sample ID: 460-290738-6

Date Collected: 10/19/23 10:56

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 83.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Nitroaniline	0.030	U	0.40	0.030	mg/Kg	☼	10/21/23 01:16	1	MDJ
2-Nitrophenol	0.040	U	0.40	0.040	mg/Kg	☼	10/21/23 01:16	1	MDJ
3,3'-Dichlorobenzidine	0.060	U	0.16	0.060	mg/Kg	☼	10/21/23 01:16	1	MDJ
3-Nitroaniline	0.094	U	0.40	0.094	mg/Kg	☼	10/21/23 01:16	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.32	0.16	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Bromophenyl phenyl ether	0.016	U	0.40	0.016	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Chloro-3-methylphenol	0.022	U	0.40	0.022	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Chloroaniline	0.071	U	0.40	0.071	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Chlorophenyl phenyl ether	0.014	U	0.40	0.014	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Methylphenol	0.025	U	0.40	0.025	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Nitroaniline	0.046	U	0.40	0.046	mg/Kg	☼	10/21/23 01:16	1	MDJ
4-Nitrophenol	0.065	U	0.81	0.065	mg/Kg	☼	10/21/23 01:16	1	MDJ
Acenaphthylene	3.6		0.40	0.011	mg/Kg	☼	10/21/23 01:16	1	MDJ
Acetophenone	0.020	U	0.40	0.020	mg/Kg	☼	10/21/23 01:16	1	MDJ
Atrazine	0.023	U ~~UJ~~	0.16	0.023	mg/Kg	☼	10/21/23 01:16	1	MDJ
Benzaldehyde	0.066	U	0.40	0.066	mg/Kg	☼	10/21/23 01:16	1	MDJ
Benzo[a]pyrene	9.0		0.040	0.011	mg/Kg	☼	10/21/23 01:16	1	MDJ
Benzo[b]fluoranthene	7.4		0.040	0.010	mg/Kg	☼	10/21/23 01:16	1	MDJ
Benzo[g,h,i]perylene	3.0		0.40	0.012	mg/Kg	☼	10/21/23 01:16	1	MDJ
Benzo[k]fluoranthene	3.0		0.040	0.0078	mg/Kg	☼	10/21/23 01:16	1	MDJ
Bis(2-chloroethoxy)methane	0.031	U	0.40	0.031	mg/Kg	☼	10/21/23 01:16	1	MDJ
Bis(2-chloroethyl)ether	0.014	U	0.040	0.014	mg/Kg	☼	10/21/23 01:16	1	MDJ
Bis(2-ethylhexyl) phthalate	0.021	U	0.40	0.021	mg/Kg	☼	10/21/23 01:16	1	MDJ
Butyl benzyl phthalate	0.019	U	0.40	0.019	mg/Kg	☼	10/21/23 01:16	1	MDJ
Caprolactam	0.062	U	0.40	0.062	mg/Kg	☼	10/21/23 01:16	1	MDJ
Carbazole	0.62		0.40	0.015	mg/Kg	☼	10/21/23 01:16	1	MDJ
Chrysene	8.3		0.40	0.017	mg/Kg	☼	10/21/23 01:16	1	MDJ
Dibenz(a,h)anthracene	0.94		0.040	0.017	mg/Kg	☼	10/21/23 01:16	1	MDJ
Dibenzofuran	2.8		0.40	0.013	mg/Kg	☼	10/21/23 01:16	1	MDJ
Diethyl phthalate	0.013	U	0.40	0.013	mg/Kg	☼	10/21/23 01:16	1	MDJ
Dimethyl phthalate	0.090	U	0.40	0.090	mg/Kg	☼	10/21/23 01:16	1	MDJ
Di-n-butyl phthalate	0.015	U	0.40	0.015	mg/Kg	☼	10/21/23 01:16	1	MDJ
Di-n-octyl phthalate	0.021	U	0.40	0.021	mg/Kg	☼	10/21/23 01:16	1	MDJ
Hexachlorobenzene	0.019	U	0.040	0.019	mg/Kg	☼	10/21/23 01:16	1	MDJ
Hexachlorobutadiene	0.0085	U	0.081	0.0085	mg/Kg	☼	10/21/23 01:16	1	MDJ
Hexachlorocyclopentadiene	~~R 0.035~~	~~U *~~	~~0.40~~	~~0.035~~	~~mg/Kg~~	~~☼~~	~~10/21/23 01:16~~	1	MDJ
Hexachloroethane	0.014	U	0.040	0.014	mg/Kg	☼	10/21/23 01:16	1	MDJ
Indeno[1,2,3-cd]pyrene	3.4		0.040	0.016	mg/Kg	☼	10/21/23 01:16	1	MDJ
Isophorone	0.11	U	0.16	0.11	mg/Kg	☼	10/21/23 01:16	1	MDJ
Naphthalene	2.3		0.40	0.0069	mg/Kg	☼	10/21/23 01:16	1	MDJ
Nitrobenzene	0.022	U	0.040	0.022	mg/Kg	☼	10/21/23 01:16	1	MDJ
N-Nitrosodi-n-propylamine	0.029	U	0.040	0.029	mg/Kg	☼	10/21/23 01:16	1	MDJ
N-Nitrosodiphenylamine	0.033	U	0.40	0.033	mg/Kg	☼	10/21/23 01:16	1	MDJ
Pentachlorophenol	0.081	U	0.32	0.081	mg/Kg	☼	10/21/23 01:16	1	MDJ
Phenol	0.015	U	0.40	0.015	mg/Kg	☼	10/21/23 01:16	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	12	J ~~N~~	mg/Kg	☼	6.25	N/A	10/21/23 01:16	1	MDJ
Hexadecane, 2,6,10,14-tetramethyl-	8.5	J N	mg/Kg	☼	6.41	638-36-8	10/21/23 01:16	1	MDJ
9H-Fluorene, 2-methyl-	13	J N	mg/Kg	☼	6.50	1430-97-3	10/21/23 01:16	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290738-1

Client Sample ID: SB-107(15-16)

Lab Sample ID: 460-290738-6

Date Collected: 10/19/23 10:56

Matrix: Solid

Date Received: 10/19/23 18:00

Percent Solids: 83.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
9H-Fluorene, 9-methyl-	7.9	J N	mg/Kg	⊗	6.52	2523-37-7	10/21/23 01:16	1	MDJ
9H-Fluorene, 3-methyl-	7.8	J N	mg/Kg	⊗	6.56	2523-39-9	10/21/23 01:16	1	MDJ
Unknown	7.4	J N	mg/Kg	⊗	6.61	N/A	10/21/23 01:16	1	MDJ
9H-Fluorene, 1-methyl-	5.6	J N	mg/Kg	⊗	6.65	1730-37-6	10/21/23 01:16	1	MDJ
Dibenzothiophene	12	J N	mg/Kg	⊗	6.71	132-65-0	10/21/23 01:16	1	MDJ
Anthracene, 1-methyl-	26	J N	mg/Kg	⊗	7.17	610-48-0	10/21/23 01:16	1	MDJ
Phenanthrene, 2-methyl-	27	J N	mg/Kg	⊗	7.20	2531-84-2	10/21/23 01:16	1	MDJ
Anthracene, 2-methyl-	15	J N	mg/Kg	⊗	7.23	613-12-7	10/21/23 01:16	1	MDJ
Benzaldehyde,	35	J N	mg/Kg	⊗	7.26	90-60-8	10/21/23 01:16	1	MDJ
3,5-dichloro-2-hydroxy-									
Naphthalene, 2-phenyl-	15	J N	mg/Kg	⊗	7.40	612-94-2	10/21/23 01:16	1	MDJ
Phenanthrene, 1,7-dimethyl-	5.6	J N	mg/Kg	⊗	7.51	483-87-4	10/21/23 01:16	1	MDJ
Phenanthrene, 2,5-dimethyl-	17	J N	mg/Kg	⊗	7.59	3674-66-6	10/21/23 01:16	1	MDJ
Unknown	14	J N	mg/Kg	⊗	7.61	N/A	10/21/23 01:16	1	MDJ
Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octaene	7.6	J N	mg/Kg	⊗	7.63	6572-60-7	10/21/23 01:16	1	MDJ
Phenanthrene, 2,7-dimethyl-	14	J N	mg/Kg	⊗	7.65	1576-69-8	10/21/23 01:16	1	MDJ
9-Octadecenoic acid (Z)-, methyl ester	9.6	J N	mg/Kg	⊗	7.67	112-62-9	10/21/23 01:16	1	MDJ
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis-	21	J N	mg/Kg	⊗	7.77	886-66-8	10/21/23 01:16	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	80		24 - 137	10/21/23 01:16	1	MDJ
2-Fluorobiphenyl	79		48 - 120	10/21/23 01:16	1	MDJ
2-Fluorophenol (Surr)	75		31 - 120	10/21/23 01:16	1	MDJ
Nitrobenzene-d5 (Surr)	67		38 - 120	10/21/23 01:16	1	MDJ
Phenol-d5 (Surr)	79		39 - 120	10/21/23 01:16	1	MDJ
Terphenyl-d14 (Surr)	80		25 - 126	10/21/23 01:16	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	20	D	2.0	0.057	mg/Kg	⊗	10/22/23 01:24	5	YAH
Anthracene	13	D	2.0	0.061	mg/Kg	⊗	10/22/23 01:24	5	YAH
Benzo[a]anthracene	10	D	0.20	0.15	mg/Kg	⊗	10/22/23 01:24	5	YAH
Fluoranthene	21	D	2.0	0.069	mg/Kg	⊗	10/22/23 01:24	5	YAH
Fluorene	14	D	2.0	0.058	mg/Kg	⊗	10/22/23 01:24	5	YAH
Phenanthrene	42	D	2.0	0.081	mg/Kg	⊗	10/22/23 01:24	5	YAH
Pyrene	25	D	2.0	0.049	mg/Kg	⊗	10/22/23 01:24	5	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊗		N/A	10/22/23 01:24	5	YAH

Eurofins Edison

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-290809-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52266R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-290809-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-102(12.0-13.0)	460-290809-1	Soil	10/19/2023		X	X			
SB-102(22.0-23.0)	460-290809-2	Soil	10/19/2023		X	X			
SB-108(5.0-6.0)	460-290809-3	Soil	10/19/2023		X	X			
SB-109(2.0-3.0)	460-290809-4	Soil	10/20/2023		X	X			
Trip Blank-20231019	460-290809-5	Water	10/19/2023		X				

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-102(12.0-13.0) SB-109(2.0-3.0) SB-108(5.0-6.0) SB-102(22.0-23.0)	ICV %D	1,1-Dichloroethene	-22.2%
		Carbon disulfide	-35.7%
		Cyclohexane	-27.6%
		Methylcyclohexane	-21.8%
SB-102(12.0-13.0) SB-109(2.0-3.0)	CCV %D	1,2-Dibromo-3-Chloropropane	-21.1%
SB-108(5.0-6.0) SB-102(22.0-23.0)	CCV %D	Bromoform	-31.0%
Trip Blank-20231019	ICV %D	1,1-Dichloroethane	-29.4%
		Cyclohexane	-28.8%
		Methylcyclohexane	-31.5%
	CCV %D	Acetone	-23.0%
		Carbon disulfide	+37.2%
		Cyclohexane	+35.4%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area

counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS/LCSD recoveries were within control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-109(2.0-3.0)	ICV %D	Benzaldehyde	-57.3%
	CCV %D	Benzaldehyde	-21.6%
SB-102(12.0-13.0)	ICV %D	Benzaldehyde	-58.8%
SB-102(22.0-23.0)	CCV %D	Benzaldehyde	-32.7%
SB-108(5.0-6.0)			

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Surrogate	Recovery
SB-108(5.0-6.0)	2-Fluorophenol	AC
	Phenol-d5	AC
	Nitrobenzene-d5	AC
	2-Fluorobiphenyl	<LL but >10%
	2,4,6-Tribromophenol	AC
	Terphenyl-d14	AC

Notes:

LL Lower control limit
AC Acceptable

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-102(12.0-13.0) SB-102(22.0-23.0)	2,4-Dimethylphenol	AC	<LL but >10%
SB-108(5.0-6.0) SB-109(2.0-3.0)	Hexachlorocyclopentadiene	<10%	<10%

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as "Aldol condensation product" are laboratory artifacts and were qualified as rejected (R).

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-102(12.0-13.0)	Phenanthrene	--	19 D	19 D
	Pyrene	--	9.7 D	9.7 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-290809-1	10/19/2023	SW846/USEPA	SB-102(12.0-13.0)	Soil	no	no	--	--	--	VOC – ICV %D, LCS %R SVOC – CCV %D, LCS/LCSD %R
	10/19/2023	SW846/USEPA	SB-102(22.0-23.0)	Soil	no	no	--	--	--	VOC – ICV %D, LCS %R SVOC – CCV %D, LCS/LCSD %R
	10/19/2023	SW846/USEPA	SB-108(5.0-6.0)	Soil	no	no	--	--	--	SVOC – CCV %D, LCS/LCSD %R
	10/20/2023	SW846/USEPA	SB-109(2.0-3.0)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/19/2023	SW846/USEPA	Trip Blank-20231019	Water	no	--	--	--	--	VOC – ICV %D, LCS %R

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: December 28, 2023

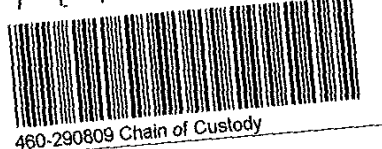
PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other		Project Manager: <u>Mike Jones</u>		Site Contact: <u>Tom Keller</u>		Date: <u>10/20/23</u>		COC No: <u>6</u> of <u>1</u> COCs	
Company Name: <u>Acadus</u>		Tel/Email: <u>201 W. Taylor St</u>		Lab Contact: <u>506</u>		Carrier: <u>506</u>		Sampler: <u>For Lab Use Only</u>	
City/State/Zip: <u>NY 13202</u>		Phone: <u>315-247-3244</u>		Analysis Turnaround Time		Walk-In Client: ☐		Lab Sampling: ☐	
Fax: <u>315-247-3244</u>		Project Name: <u>Can Edison former OSSNY works</u>		☐ CALENDAR DAYS ☐ WORKING DAYS		Job / SDG No: <u>790809</u>			
Site: <u>Can Edison OSSNY OFF-4</u>		PO # <u>1</u>		TAT if different from Below <u>STD</u>					
				☐ 2 weeks					
				☐ 1 week					
				☐ 2 days					
				☐ 1 day					

Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)
SB-102 (2.0-13.0)		10/19/23	1524	G	Soil	6	MMX	X
SB-102 (22.0-23.0)		10/19/23	1602	G	Soil	6	MMX	X
SB-108 (5.0-6.0)		10/19/23	1357	G	Soil	6	MMX	X
SB-105 (2.0-3.0)		10/19/23	1115	G	Soil	6	MMX	X
Trip Blank - 2023/10/19		10/19/23	---	---	Water	---	MMX	X



460-290809 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other.

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No. _____		Cooler Temp. (°C): Obsd: _____		Therm ID No. _____	
Relinquished by: <u>Andrew Graso</u>		Company: <u>Acadus</u>		Received by: <u>Tom Keller</u>		Company: <u>ETA</u>	
Relinquished by: <u>Tom Keller</u>		Company: <u>ETA</u>		Date/Time: <u>10-20-23 1700</u>		Date/Time: <u>10-20-23 1300</u>	
Relinquished by: <u>Tom Keller</u>		Company: <u>ETA</u>		Date/Time: <u>10-20-23 1700</u>		Date/Time: <u>10-20-23 1300</u>	

Accreditation/Certification and Definitions Summary

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(12.0-13.0)

Lab Sample ID: 460-290809-1

Date Collected: 10/19/23 15:24

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.00099	0.00023	mg/Kg	✱	10/24/23 23:07	1	VBP
1,1,2,2-Tetrachloroethane	0.00021	U	0.00099	0.00021	mg/Kg	✱	10/24/23 23:07	1	VBP
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00099	0.00030	mg/Kg	✱	10/24/23 23:07	1	VBP
1,1,2-Trichloroethane	0.00018	U	0.00099	0.00018	mg/Kg	✱	10/24/23 23:07	1	VBP
1,1-Dichloroethane	0.00020	U	0.00099	0.00020	mg/Kg	✱	10/24/23 23:07	1	VBP
1,1-Dichloroethene	0.00039	J	0.00099	0.00022	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2,3-Trichlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2,4-Trichlorobenzene	0.00035	U	0.00099	0.00035	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2-Dibromo-3-Chloropropane	0.00045	U	0.00099	0.00045	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2-Dichlorobenzene	0.055		0.00099	0.00036	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2-Dichloroethane	0.00029	U	0.00099	0.00029	mg/Kg	✱	10/24/23 23:07	1	VBP
1,2-Dichloropropane	0.00042	U	0.00099	0.00042	mg/Kg	✱	10/24/23 23:07	1	VBP
1,3-Dichlorobenzene	0.0063		0.00099	0.00036	mg/Kg	✱	10/24/23 23:07	1	VBP
1,4-Dichlorobenzene	0.019		0.00099	0.00022	mg/Kg	✱	10/24/23 23:07	1	VBP
1,4-Dioxane	0.0091	U	0.099	0.0091	mg/Kg	✱	10/24/23 23:07	1	VBP
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	✱	10/24/23 23:07	1	VBP
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	✱	10/24/23 23:07	1	VBP
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0049	0.0015	mg/Kg	✱	10/24/23 23:07	1	VBP
Acetone	0.020		0.0059	0.0056	mg/Kg	✱	10/24/23 23:07	1	VBP
Benzene	0.0016		0.00099	0.00025	mg/Kg	✱	10/24/23 23:07	1	VBP
Bromoform	0.00042	U	0.00099	0.00042	mg/Kg	✱	10/24/23 23:07	1	VBP
Bromomethane	0.00099	U	0.0020	0.00099	mg/Kg	✱	10/24/23 23:07	1	VBP
Carbon disulfide	0.0014	J	0.00099	0.00026	mg/Kg	✱	10/24/23 23:07	1	VBP
Carbon tetrachloride	0.00038	U	0.00099	0.00038	mg/Kg	✱	10/24/23 23:07	1	VBP
Chlorobenzene	0.0066		0.00099	0.00017	mg/Kg	✱	10/24/23 23:07	1	VBP
Chlorobromomethane	0.00028	U	0.00099	0.00028	mg/Kg	✱	10/24/23 23:07	1	VBP
Chlorodibromomethane	0.00019	U	0.00099	0.00019	mg/Kg	✱	10/24/23 23:07	1	VBP
Chloroethane	0.00052	U	0.00099	0.00052	mg/Kg	✱	10/24/23 23:07	1	VBP
Chloroform	0.00096	U	0.00099	0.00096	mg/Kg	✱	10/24/23 23:07	1	VBP
Chloromethane	0.00043	U	0.00099	0.00043	mg/Kg	✱	10/24/23 23:07	1	VBP
cis-1,2-Dichloroethene	0.00035	U	0.00099	0.00035	mg/Kg	✱	10/24/23 23:07	1	VBP
cis-1,3-Dichloropropene	0.00027	U	0.00099	0.00027	mg/Kg	✱	10/24/23 23:07	1	VBP
Cyclohexane	0.00022	U	0.00099	0.00022	mg/Kg	✱	10/24/23 23:07	1	VBP
Dichlorobromomethane	0.00025	U	0.00099	0.00025	mg/Kg	✱	10/24/23 23:07	1	VBP
Dichlorodifluoromethane	0.00033	U	0.00099	0.00033	mg/Kg	✱	10/24/23 23:07	1	VBP
Ethylbenzene	0.022		0.00099	0.00020	mg/Kg	✱	10/24/23 23:07	1	VBP
Ethylene Dibromide	0.00018	U	0.00099	0.00018	mg/Kg	✱	10/24/23 23:07	1	VBP
Isopropylbenzene	0.0091		0.00099	0.00028	mg/Kg	✱	10/24/23 23:07	1	VBP
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	✱	10/24/23 23:07	1	VBP
Methyl tert-butyl ether	0.00051	U	0.00099	0.00051	mg/Kg	✱	10/24/23 23:07	1	VBP
Methylcyclohexane	0.0012	J	0.00099	0.00049	mg/Kg	✱	10/24/23 23:07	1	VBP
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	✱	10/24/23 23:07	1	VBP
m-Xylene & p-Xylene	0.0031		0.00099	0.00017	mg/Kg	✱	10/24/23 23:07	1	VBP
o-Xylene	0.0031		0.00099	0.00019	mg/Kg	✱	10/24/23 23:07	1	VBP
Styrene	0.0014		0.00099	0.00027	mg/Kg	✱	10/24/23 23:07	1	VBP
Tetrachloroethene	0.00030	U	0.00099	0.00030	mg/Kg	✱	10/24/23 23:07	1	VBP
Toluene	0.00095	J	0.00099	0.00023	mg/Kg	✱	10/24/23 23:07	1	VBP
trans-1,2-Dichloroethene	0.00024	U	0.00099	0.00024	mg/Kg	✱	10/24/23 23:07	1	VBP
trans-1,3-Dichloropropene	0.00026	U	0.00099	0.00026	mg/Kg	✱	10/24/23 23:07	1	VBP

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(12.0-13.0)

Lab Sample ID: 460-290809-1

Date Collected: 10/19/23 15:24

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00032	U	0.00099	0.00032	mg/Kg	☼	10/24/23 23:07	1	VBP
Trichlorofluoromethane	0.00040	U	0.00099	0.00040	mg/Kg	☼	10/24/23 23:07	1	VBP
Vinyl chloride	0.00054	U	0.00099	0.00054	mg/Kg	☼	10/24/23 23:07	1	VBP

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.072	J N	mg/Kg	☼	13.74	N/A	10/24/23 23:07	1	VBP
2-Methylindene	0.099	J N	mg/Kg	☼	14.22	2177-47-1	10/24/23 23:07	1	VBP
Unknown	0.075	J N	mg/Kg	☼	14.28	N/A	10/24/23 23:07	1	VBP
Undecane, 2,6-dimethyl-	0.089	J N	mg/Kg	☼	14.33	17301-23-4	10/24/23 23:07	1	VBP
Unknown	0.10	J N	mg/Kg	☼	14.55	N/A	10/24/23 23:07	1	VBP
Unknown	0.087	J N	mg/Kg	☼	14.65	N/A	10/24/23 23:07	1	VBP
Naphthalene, 1,2-dihydro-3-methyl-	0.082	J N	mg/Kg	☼	14.79	2717-44-4	10/24/23 23:07	1	VBP
1H-Indene, 1,1-dimethyl-	0.077	J N	mg/Kg	☼	14.87	18636-55-0	10/24/23 23:07	1	VBP
Naphthalene, 2-methyl-	0.51	J N	mg/Kg	☼	15.27	91-57-6	10/24/23 23:07	1	VBP
Naphthalene, 1,4-dimethyl-	0.078	J N	mg/Kg	☼	15.93	571-58-4	10/24/23 23:07	1	VBP

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	87		72 - 138	10/24/23 23:07	1	VBP
4-Bromofluorobenzene	83		63 - 139	10/24/23 23:07	1	VBP
Dibromofluoromethane (Surr)	95		54 - 150	10/24/23 23:07	1	VBP
Toluene-d8 (Surr)	89		71 - 126	10/24/23 23:07	1	VBP

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.6		0.41	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
1,2,4,5-Tetrachlorobenzene	0.013	U	0.41	0.013	mg/Kg	☼	10/21/23 23:33	1	YAH
2,2'-oxybis[1-chloropropane]	0.024	U	0.41	0.024	mg/Kg	☼	10/21/23 23:33	1	YAH
2,3,4,6-Tetrachlorophenol	0.028	U	0.41	0.028	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4,5-Trichlorophenol	0.041	U	0.41	0.041	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4,6-Trichlorophenol	0.052	U	0.16	0.052	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4-Dichlorophenol	0.026	U	0.16	0.026	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4-Dimethylphenol	0.048	U*	0.41	0.048	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4-Dinitrophenol	0.20	U	0.33	0.20	mg/Kg	☼	10/21/23 23:33	1	YAH
2,4-Dinitrotoluene	0.044	U	0.082	0.044	mg/Kg	☼	10/21/23 23:33	1	YAH
2,6-Dinitrotoluene	0.029	U	0.082	0.029	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Chloronaphthalene	0.019	U	0.41	0.019	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Chlorophenol	0.014	U	0.41	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Methylnaphthalene	0.70		0.41	0.011	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Methylphenol	0.017	J	0.41	0.015	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Nitroaniline	0.031	U	0.41	0.031	mg/Kg	☼	10/21/23 23:33	1	YAH
2-Nitrophenol	0.041	U	0.41	0.041	mg/Kg	☼	10/21/23 23:33	1	YAH
3,3'-Dichlorobenzidine	0.061	U	0.16	0.061	mg/Kg	☼	10/21/23 23:33	1	YAH
3-Nitroaniline	0.096	U	0.41	0.096	mg/Kg	☼	10/21/23 23:33	1	YAH
4,6-Dinitro-2-methylphenol	0.17	U	0.33	0.17	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Bromophenyl phenyl ether	0.016	U	0.41	0.016	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Chloro-3-methylphenol	0.023	U	0.41	0.023	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Chloroaniline	0.072	U	0.41	0.072	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Chlorophenyl phenyl ether	0.014	U	0.41	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Methylphenol	0.029	J	0.41	0.025	mg/Kg	☼	10/21/23 23:33	1	YAH
4-Nitroaniline	0.047	U	0.41	0.047	mg/Kg	☼	10/21/23 23:33	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(12.0-13.0)

Lab Sample ID: 460-290809-1

Date Collected: 10/19/23 15:24

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitrophenol	0.066	U	0.82	0.066	mg/Kg	☼	10/21/23 23:33	1	YAH
Acenaphthene	9.6		0.41	0.012	mg/Kg	☼	10/21/23 23:33	1	YAH
Acenaphthylene	2.1		0.41	0.012	mg/Kg	☼	10/21/23 23:33	1	YAH
Acetophenone	0.020	U	0.41	0.020	mg/Kg	☼	10/21/23 23:33	1	YAH
Anthracene	5.8		0.41	0.012	mg/Kg	☼	10/21/23 23:33	1	YAH
Atrazine	0.024	U	0.16	0.024	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzaldehyde	0.067	U J	0.41	0.067	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzo[a]anthracene	3.9		0.041	0.031	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzo[a]pyrene	3.2		0.041	0.011	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzo[b]fluoranthene	2.4		0.041	0.011	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzo[g,h,i]perylene	1.2		0.41	0.012	mg/Kg	☼	10/21/23 23:33	1	YAH
Benzo[k]fluoranthene	1.0		0.041	0.0080	mg/Kg	☼	10/21/23 23:33	1	YAH
Bis(2-chloroethoxy)methane	0.032	U	0.41	0.032	mg/Kg	☼	10/21/23 23:33	1	YAH
Bis(2-chloroethyl)ether	0.014	U	0.041	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
Bis(2-ethylhexyl) phthalate	0.021	U	0.41	0.021	mg/Kg	☼	10/21/23 23:33	1	YAH
Butyl benzyl phthalate	0.019	U	0.41	0.019	mg/Kg	☼	10/21/23 23:33	1	YAH
Caprolactam	0.063	U	0.41	0.063	mg/Kg	☼	10/21/23 23:33	1	YAH
Carbazole	0.31	J	0.41	0.015	mg/Kg	☼	10/21/23 23:33	1	YAH
Chrysene	3.6		0.41	0.017	mg/Kg	☼	10/21/23 23:33	1	YAH
Dibenz(a,h)anthracene	0.26		0.041	0.018	mg/Kg	☼	10/21/23 23:33	1	YAH
Dibenzofuran	0.93		0.41	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
Diethyl phthalate	0.013	U	0.41	0.013	mg/Kg	☼	10/21/23 23:33	1	YAH
Dimethyl phthalate	0.092	U	0.41	0.092	mg/Kg	☼	10/21/23 23:33	1	YAH
Di-n-butyl phthalate	0.12	J	0.41	0.015	mg/Kg	☼	10/21/23 23:33	1	YAH
Di-n-octyl phthalate	0.022	U	0.41	0.022	mg/Kg	☼	10/21/23 23:33	1	YAH
Fluoranthene	7.1		0.41	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
Fluorene	3.7		0.41	0.012	mg/Kg	☼	10/21/23 23:33	1	YAH
Hexachlorobenzene	0.019	U	0.041	0.019	mg/Kg	☼	10/21/23 23:33	1	YAH
Hexachlorobutadiene	0.0086	U	0.082	0.0086	mg/Kg	☼	10/21/23 23:33	1	YAH
Hexachlorocyclopentadiene	R 0.036	U *	0.41	0.036	mg/Kg	☼	10/21/23 23:33	1	YAH
Hexachloroethane	0.014	U	0.041	0.014	mg/Kg	☼	10/21/23 23:33	1	YAH
Indeno[1,2,3-cd]pyrene	1.3		0.041	0.016	mg/Kg	☼	10/21/23 23:33	1	YAH
Isophorone	0.12	U	0.16	0.12	mg/Kg	☼	10/21/23 23:33	1	YAH
Naphthalene	1.4		0.41	0.0070	mg/Kg	☼	10/21/23 23:33	1	YAH
Nitrobenzene	0.023	U	0.041	0.023	mg/Kg	☼	10/21/23 23:33	1	YAH
N-Nitrosodi-n-propylamine	0.029	U	0.041	0.029	mg/Kg	☼	10/21/23 23:33	1	YAH
N-Nitrosodiphenylamine	0.033	U	0.41	0.033	mg/Kg	☼	10/21/23 23:33	1	YAH
Pentachlorophenol	0.083	U	0.33	0.083	mg/Kg	☼	10/21/23 23:33	1	YAH
Phenol	0.015	U	0.41	0.015	mg/Kg	☼	10/21/23 23:33	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	7.9	J N	mg/Kg	☼	4.96	90-12-0	10/21/23 23:33	1	YAH
Naphthalene, 1,6-dimethyl-	2.1	J N	mg/Kg	☼	5.37	575-43-9	10/21/23 23:33	1	YAH
Naphthalene, 2,3-dimethyl-	4.4	J N	mg/Kg	☼	5.42	581-40-8	10/21/23 23:33	1	YAH
Naphthalene, 2,6-dimethyl-	2.9	J N	mg/Kg	☼	5.50	581-42-0	10/21/23 23:33	1	YAH
Unknown	1.8	J N	mg/Kg	☼	5.91	N/A	10/21/23 23:33	1	YAH
Unknown	2.2	J N	mg/Kg	☼	6.06	N/A	10/21/23 23:33	1	YAH
Unknown	2.0	J N	mg/Kg	☼	6.21	N/A	10/21/23 23:33	1	YAH
Unknown	2.0	J N	mg/Kg	☼	6.25	N/A	10/21/23 23:33	1	YAH
Pentadecane, 2,6,10,14-tetramethyl-	1.8	J N	mg/Kg	☼	6.41	1921-70-6	10/21/23 23:33	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(12.0-13.0)

Lab Sample ID: 460-290809-1

Date Collected: 10/19/23 15:24

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
9H-Fluorene, 2-methyl-	2.4	J N	mg/Kg	⊛	6.50	1430-97-3	10/21/23 23:33	1	YAH
9H-Fluorene, 1-methyl-	2.0	J N	mg/Kg	⊛	6.56	1730-37-6	10/21/23 23:33	1	YAH
Dibenzothiophene	2.5	J N	mg/Kg	⊛	6.71	132-65-0	10/21/23 23:33	1	YAH
Dibenzothiophene, 4-methyl-	2.4	J N	mg/Kg	⊛	7.04	7372-88-5	10/21/23 23:33	1	YAH
Anthracene, 2-methyl-	5.2	J N	mg/Kg	⊛	7.17	613-12-7	10/21/23 23:33	1	YAH
Phenanthrene, 2-methyl-	6.1	J N	mg/Kg	⊛	7.19	2531-84-2	10/21/23 23:33	1	YAH
Anthracene, 9-methyl-	2.2	J N	mg/Kg	⊛	7.23	779-02-2	10/21/23 23:33	1	YAH
Anthracene, 1-methyl-	3.9	J N	mg/Kg	⊛	7.27	610-48-0	10/21/23 23:33	1	YAH
Naphthalene, 2-phenyl-	1.8	J N	mg/Kg	⊛	7.40	612-94-2	10/21/23 23:33	1	YAH
Phenanthrene, 2,5-dimethyl-	3.5	J N	mg/Kg	⊛	7.59	3674-66-6	10/21/23 23:33	1	YAH
Unknown	2.4	J N	mg/Kg	⊛	7.77	N/A	10/21/23 23:33	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	79		24 - 137	10/21/23 23:33	1	YAH
2-Fluorobiphenyl	77		48 - 120	10/21/23 23:33	1	YAH
2-Fluorophenol (Surr)	77		31 - 120	10/21/23 23:33	1	YAH
Nitrobenzene-d5 (Surr)	77		38 - 120	10/21/23 23:33	1	YAH
Phenol-d5 (Surr)	80		39 - 120	10/21/23 23:33	1	YAH
Terphenyl-d14 (Surr)	82		25 - 126	10/21/23 23:33	1	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Phenanthrene	19	D	2.0	0.083	mg/Kg	⊛	10/23/23 00:44	5	YAH
Pyrene	9.7	D	2.0	0.050	mg/Kg	⊛	10/23/23 00:44	5	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/23/23 00:44	5	YAH

Client Sample ID: SB-102(22.0-23.0)

Lab Sample ID: 460-290809-2

Date Collected: 10/19/23 16:02

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00091	0.00021	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,1,2,2-Tetrachloroethane	0.00019	U	0.00091	0.00019	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00091	0.00027	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,1,2-Trichloroethane	0.00016	U	0.00091	0.00016	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,1-Dichloroethane	0.00019	U	0.00091	0.00019	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,1-Dichloroethene	0.00059	J	0.00091	0.00020	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2,3-Trichlorobenzene	0.00016	U	0.00091	0.00016	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2,4-Trichlorobenzene	0.00033	U	0.00091	0.00033	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00091	0.00042	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2-Dichlorobenzene	0.00033	U	0.00091	0.00033	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2-Dichloroethane	0.00027	U	0.00091	0.00027	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,2-Dichloropropane	0.00038	U	0.00091	0.00038	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,3-Dichlorobenzene	0.00033	U	0.00091	0.00033	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,4-Dichlorobenzene	0.00020	U	0.00091	0.00020	mg/Kg	⊛	10/25/23 12:21	1	EMM
1,4-Dioxane	0.0083	U	0.091	0.0083	mg/Kg	⊛	10/25/23 12:21	1	EMM
2-Butanone (MEK)	0.00033	U	0.0045	0.00033	mg/Kg	⊛	10/25/23 12:21	1	EMM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(22.0-23.0)

Lab Sample ID: 460-290809-2

Date Collected: 10/19/23 16:02

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.0016	U	0.0045	0.0016	mg/Kg	☼	10/25/23 12:21	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	☼	10/25/23 12:21	1	EMM
Acetone	0.0052	U	0.0054	0.0052	mg/Kg	☼	10/25/23 12:21	1	EMM
Benzene	0.00023	U	0.00091	0.00023	mg/Kg	☼	10/25/23 12:21	1	EMM
Bromoform	0.00039	U J	0.00091	0.00039	mg/Kg	☼	10/25/23 12:21	1	EMM
Bromomethane	0.00091	U	0.0018	0.00091	mg/Kg	☼	10/25/23 12:21	1	EMM
Carbon disulfide	0.00024	U J	0.00091	0.00024	mg/Kg	☼	10/25/23 12:21	1	EMM
Carbon tetrachloride	0.00035	U	0.00091	0.00035	mg/Kg	☼	10/25/23 12:21	1	EMM
Chlorobenzene	0.00016	U	0.00091	0.00016	mg/Kg	☼	10/25/23 12:21	1	EMM
Chlorobromomethane	0.00026	U	0.00091	0.00026	mg/Kg	☼	10/25/23 12:21	1	EMM
Chlorodibromomethane	0.00018	U	0.00091	0.00018	mg/Kg	☼	10/25/23 12:21	1	EMM
Chloroethane	0.00047	U	0.00091	0.00047	mg/Kg	☼	10/25/23 12:21	1	EMM
Chloroform	0.00088	U	0.00091	0.00088	mg/Kg	☼	10/25/23 12:21	1	EMM
Chloromethane	0.00039	U	0.00091	0.00039	mg/Kg	☼	10/25/23 12:21	1	EMM
cis-1,2-Dichloroethene	0.00033	U	0.00091	0.00033	mg/Kg	☼	10/25/23 12:21	1	EMM
cis-1,3-Dichloropropene	0.00025	U	0.00091	0.00025	mg/Kg	☼	10/25/23 12:21	1	EMM
Cyclohexane	0.00020	U J	0.00091	0.00020	mg/Kg	☼	10/25/23 12:21	1	EMM
Dichlorobromomethane	0.00023	U	0.00091	0.00023	mg/Kg	☼	10/25/23 12:21	1	EMM
Dichlorodifluoromethane	0.00031	U	0.00091	0.00031	mg/Kg	☼	10/25/23 12:21	1	EMM
Ethylbenzene	0.00018	U	0.00091	0.00018	mg/Kg	☼	10/25/23 12:21	1	EMM
Ethylene Dibromide	0.00016	U	0.00091	0.00016	mg/Kg	☼	10/25/23 12:21	1	EMM
Isopropylbenzene	0.00026	U	0.00091	0.00026	mg/Kg	☼	10/25/23 12:21	1	EMM
Methyl acetate	0.0039	U	0.0045	0.0039	mg/Kg	☼	10/25/23 12:21	1	EMM
Methyl tert-butyl ether	0.00046	U	0.00091	0.00046	mg/Kg	☼	10/25/23 12:21	1	EMM
Methylcyclohexane	0.00045	U J	0.00091	0.00045	mg/Kg	☼	10/25/23 12:21	1	EMM
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	☼	10/25/23 12:21	1	EMM
m-Xylene & p-Xylene	0.00016	U	0.00091	0.00016	mg/Kg	☼	10/25/23 12:21	1	EMM
o-Xylene	0.00018	U	0.00091	0.00018	mg/Kg	☼	10/25/23 12:21	1	EMM
Styrene	0.00025	U	0.00091	0.00025	mg/Kg	☼	10/25/23 12:21	1	EMM
Tetrachloroethene	0.00028	U	0.00091	0.00028	mg/Kg	☼	10/25/23 12:21	1	EMM
Toluene	0.00021	U	0.00091	0.00021	mg/Kg	☼	10/25/23 12:21	1	EMM
trans-1,2-Dichloroethene	0.00022	U	0.00091	0.00022	mg/Kg	☼	10/25/23 12:21	1	EMM
trans-1,3-Dichloropropene	0.00024	U	0.00091	0.00024	mg/Kg	☼	10/25/23 12:21	1	EMM
Trichloroethene	0.00029	U	0.00091	0.00029	mg/Kg	☼	10/25/23 12:21	1	EMM
Trichlorofluoromethane	0.00037	U	0.00091	0.00037	mg/Kg	☼	10/25/23 12:21	1	EMM
Vinyl chloride	0.00050	U	0.00091	0.00050	mg/Kg	☼	10/25/23 12:21	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/25/23 12:21	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	89		72 - 138	10/25/23 12:21	1	EMM
4-Bromofluorobenzene	87		63 - 139	10/25/23 12:21	1	EMM
Dibromofluoromethane (Surr)	90		54 - 150	10/25/23 12:21	1	EMM
Toluene-d8 (Surr)	96		71 - 126	10/25/23 12:21	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.013	U	0.38	0.013	mg/Kg	☼	10/21/23 20:03	1	YAH
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☼	10/21/23 20:03	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(22.0-23.0)

Lab Sample ID: 460-290809-2

Date Collected: 10/19/23 16:02

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 86.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☆	10/21/23 20:03	1	YAH
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4-Dichlorophenol	0.025	U	0.15	0.025	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4-Dimethylphenol	0.046	U- UJ	0.38	0.046	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☆	10/21/23 20:03	1	YAH
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☆	10/21/23 20:03	1	YAH
2,6-Dinitrotoluene	0.028	U	0.077	0.028	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Methylnaphthalene	0.011	U	0.38	0.011	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☆	10/21/23 20:03	1	YAH
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☆	10/21/23 20:03	1	YAH
3,3'-Dichlorobenzidine	0.058	U	0.15	0.058	mg/Kg	☆	10/21/23 20:03	1	YAH
3-Nitroaniline	0.091	U	0.38	0.091	mg/Kg	☆	10/21/23 20:03	1	YAH
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Chloroaniline	0.068	U	0.38	0.068	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☆	10/21/23 20:03	1	YAH
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☆	10/21/23 20:03	1	YAH
Acenaphthene	0.011	U	0.38	0.011	mg/Kg	☆	10/21/23 20:03	1	YAH
Acenaphthylene	0.011	U	0.38	0.011	mg/Kg	☆	10/21/23 20:03	1	YAH
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☆	10/21/23 20:03	1	YAH
Anthracene	0.012	U	0.38	0.012	mg/Kg	☆	10/21/23 20:03	1	YAH
Atrazine	0.023	U	0.15	0.023	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzaldehyde	0.063	U J	0.38	0.063	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzo[a]anthracene	0.029	U	0.038	0.029	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzo[a]pyrene	0.010	U	0.038	0.010	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzo[b]fluoranthene	0.0099	U	0.038	0.0099	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzo[g,h,i]perylene	0.011	U	0.38	0.011	mg/Kg	☆	10/21/23 20:03	1	YAH
Benzo[k]fluoranthene	0.0075	U	0.038	0.0075	mg/Kg	☆	10/21/23 20:03	1	YAH
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	☆	10/21/23 20:03	1	YAH
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☆	10/21/23 20:03	1	YAH
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	☆	10/21/23 20:03	1	YAH
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☆	10/21/23 20:03	1	YAH
Caprolactam	0.060	U	0.38	0.060	mg/Kg	☆	10/21/23 20:03	1	YAH
Carbazole	0.015	U	0.38	0.015	mg/Kg	☆	10/21/23 20:03	1	YAH
Chrysene	0.016	U	0.38	0.016	mg/Kg	☆	10/21/23 20:03	1	YAH
Dibenz(a,h)anthracene	0.017	U	0.038	0.017	mg/Kg	☆	10/21/23 20:03	1	YAH
Dibenzofuran	0.013	U	0.38	0.013	mg/Kg	☆	10/21/23 20:03	1	YAH
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☆	10/21/23 20:03	1	YAH
Dimethyl phthalate	0.087	U	0.38	0.087	mg/Kg	☆	10/21/23 20:03	1	YAH
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☆	10/21/23 20:03	1	YAH
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☆	10/21/23 20:03	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-102(22.0-23.0)

Lab Sample ID: 460-290809-2

Date Collected: 10/19/23 16:02

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 86.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoranthene	0.013	U	0.38	0.013	mg/Kg	✱	10/21/23 20:03	1	YAH
Fluorene	0.011	U	0.38	0.011	mg/Kg	✱	10/21/23 20:03	1	YAH
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	✱	10/21/23 20:03	1	YAH
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	✱	10/21/23 20:03	1	YAH
Hexachlorocyclopentadiene	~~R 0.034~~	~~U *~~	~~0.38~~	~~0.034~~	~~mg/Kg~~	~~✱~~	~~10/21/23 20:03~~	1	YAH
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	✱	10/21/23 20:03	1	YAH
Indeno[1,2,3-cd]pyrene	0.015	U	0.038	0.015	mg/Kg	✱	10/21/23 20:03	1	YAH
Isophorone	0.11	U	0.15	0.11	mg/Kg	✱	10/21/23 20:03	1	YAH
Naphthalene	0.0066	U	0.38	0.0066	mg/Kg	✱	10/21/23 20:03	1	YAH
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	✱	10/21/23 20:03	1	YAH
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	✱	10/21/23 20:03	1	YAH
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	✱	10/21/23 20:03	1	YAH
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	✱	10/21/23 20:03	1	YAH
Phenanthrene	0.016	U	0.38	0.016	mg/Kg	✱	10/21/23 20:03	1	YAH
Phenol	0.014	U	0.38	0.014	mg/Kg	✱	10/21/23 20:03	1	YAH
Pyrene	0.0095	U	0.38	0.0095	mg/Kg	✱	10/21/23 20:03	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	~~R 0.53~~	~~J A~~	~~mg/Kg~~	~~✱~~	~~2.26~~	~~N/A~~	~~10/21/23 20:03~~	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	77		24 - 137	10/21/23 20:03	1	YAH
2-Fluorobiphenyl	76		48 - 120	10/21/23 20:03	1	YAH
2-Fluorophenol (Surr)	78		31 - 120	10/21/23 20:03	1	YAH
Nitrobenzene-d5 (Surr)	78		38 - 120	10/21/23 20:03	1	YAH
Phenol-d5 (Surr)	79		39 - 120	10/21/23 20:03	1	YAH
Terphenyl-d14 (Surr)	83		25 - 126	10/21/23 20:03	1	YAH

Client Sample ID: SB-108(5.0-6.0)

Lab Sample ID: 460-290809-3

Date Collected: 10/19/23 13:57

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00092	0.00021	mg/Kg	✱	10/25/23 11:56	1	EMM
1,1,2,2-Tetrachloroethane	0.00020	U	0.00092	0.00020	mg/Kg	✱	10/25/23 11:56	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00092	0.00028	mg/Kg	✱	10/25/23 11:56	1	EMM
1,1,2-Trichloroethane	0.00016	U	0.00092	0.00016	mg/Kg	✱	10/25/23 11:56	1	EMM
1,1-Dichloroethane	0.00019	U	0.00092	0.00019	mg/Kg	✱	10/25/23 11:56	1	EMM
1,1-Dichloroethene	0.00063	J	0.00092	0.00021	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2,3-Trichlorobenzene	0.00017	U	0.00092	0.00017	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2,4-Trichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00092	0.00042	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2-Dichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2-Dichloroethane	0.00027	U	0.00092	0.00027	mg/Kg	✱	10/25/23 11:56	1	EMM
1,2-Dichloropropane	0.00039	U	0.00092	0.00039	mg/Kg	✱	10/25/23 11:56	1	EMM
1,3-Dichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	✱	10/25/23 11:56	1	EMM
1,4-Dichlorobenzene	0.00021	U	0.00092	0.00021	mg/Kg	✱	10/25/23 11:56	1	EMM
1,4-Dioxane	0.0084	U	0.092	0.0084	mg/Kg	✱	10/25/23 11:56	1	EMM
2-Butanone (MEK)	0.00034	U	0.0046	0.00034	mg/Kg	✱	10/25/23 11:56	1	EMM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-108(5.0-6.0)

Lab Sample ID: 460-290809-3

Date Collected: 10/19/23 13:57

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.0016	U	0.0046	0.0016	mg/Kg	☼	10/25/23 11:56	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0046	0.0014	mg/Kg	☼	10/25/23 11:56	1	EMM
Acetone	0.019		0.0055	0.0052	mg/Kg	☼	10/25/23 11:56	1	EMM
Benzene	0.00043	J	0.00092	0.00024	mg/Kg	☼	10/25/23 11:56	1	EMM
Bromoform	0.00039	U J	0.00092	0.00039	mg/Kg	☼	10/25/23 11:56	1	EMM
Bromomethane	0.00092	U	0.0018	0.00092	mg/Kg	☼	10/25/23 11:56	1	EMM
Carbon disulfide	0.00024	U J	0.00092	0.00024	mg/Kg	☼	10/25/23 11:56	1	EMM
Carbon tetrachloride	0.00036	U	0.00092	0.00036	mg/Kg	☼	10/25/23 11:56	1	EMM
Chlorobenzene	0.00016	U	0.00092	0.00016	mg/Kg	☼	10/25/23 11:56	1	EMM
Chlorobromomethane	0.00026	U	0.00092	0.00026	mg/Kg	☼	10/25/23 11:56	1	EMM
Chlorodibromomethane	0.00018	U	0.00092	0.00018	mg/Kg	☼	10/25/23 11:56	1	EMM
Chloroethane	0.00048	U	0.00092	0.00048	mg/Kg	☼	10/25/23 11:56	1	EMM
Chloroform	0.00089	U	0.00092	0.00089	mg/Kg	☼	10/25/23 11:56	1	EMM
Chloromethane	0.00040	U	0.00092	0.00040	mg/Kg	☼	10/25/23 11:56	1	EMM
cis-1,2-Dichloroethene	0.00033	U	0.00092	0.00033	mg/Kg	☼	10/25/23 11:56	1	EMM
cis-1,3-Dichloropropene	0.00025	U	0.00092	0.00025	mg/Kg	☼	10/25/23 11:56	1	EMM
Cyclohexane	0.00020	U J	0.00092	0.00020	mg/Kg	☼	10/25/23 11:56	1	EMM
Dichlorobromomethane	0.00024	U	0.00092	0.00024	mg/Kg	☼	10/25/23 11:56	1	EMM
Dichlorodifluoromethane	0.00031	U	0.00092	0.00031	mg/Kg	☼	10/25/23 11:56	1	EMM
Ethylbenzene	0.00018	U	0.00092	0.00018	mg/Kg	☼	10/25/23 11:56	1	EMM
Ethylene Dibromide	0.00017	U	0.00092	0.00017	mg/Kg	☼	10/25/23 11:56	1	EMM
Isopropylbenzene	0.00026	U	0.00092	0.00026	mg/Kg	☼	10/25/23 11:56	1	EMM
Methyl acetate	0.0039	U	0.0046	0.0039	mg/Kg	☼	10/25/23 11:56	1	EMM
Methyl tert-butyl ether	0.00047	U	0.00092	0.00047	mg/Kg	☼	10/25/23 11:56	1	EMM
Methylcyclohexane	0.00046	U J	0.00092	0.00046	mg/Kg	☼	10/25/23 11:56	1	EMM
Methylene Chloride	0.0011	U	0.0018	0.0011	mg/Kg	☼	10/25/23 11:56	1	EMM
m-Xylene & p-Xylene	0.00016	U	0.00092	0.00016	mg/Kg	☼	10/25/23 11:56	1	EMM
o-Xylene	0.00018	U	0.00092	0.00018	mg/Kg	☼	10/25/23 11:56	1	EMM
Styrene	0.00026	U	0.00092	0.00026	mg/Kg	☼	10/25/23 11:56	1	EMM
Tetrachloroethene	0.00028	U	0.00092	0.00028	mg/Kg	☼	10/25/23 11:56	1	EMM
Toluene	0.00056	J	0.00092	0.00021	mg/Kg	☼	10/25/23 11:56	1	EMM
trans-1,2-Dichloroethene	0.00023	U	0.00092	0.00023	mg/Kg	☼	10/25/23 11:56	1	EMM
trans-1,3-Dichloropropene	0.00024	U	0.00092	0.00024	mg/Kg	☼	10/25/23 11:56	1	EMM
Trichloroethene	0.00029	U	0.00092	0.00029	mg/Kg	☼	10/25/23 11:56	1	EMM
Trichlorofluoromethane	0.00037	U	0.00092	0.00037	mg/Kg	☼	10/25/23 11:56	1	EMM
Vinyl chloride	0.00050	U	0.00092	0.00050	mg/Kg	☼	10/25/23 11:56	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/25/23 11:56	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	85		72 - 138	10/25/23 11:56	1	EMM
4-Bromofluorobenzene	81		63 - 139	10/25/23 11:56	1	EMM
Dibromofluoromethane (Surr)	86		54 - 150	10/25/23 11:56	1	EMM
Toluene-d8 (Surr)	93		71 - 126	10/25/23 11:56	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.013	U	0.36	0.013	mg/Kg	☼	10/22/23 00:26	1	YAH
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	10/22/23 00:26	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-108(5.0-6.0)

Lab Sample ID: 460-290809-3

Date Collected: 10/19/23 13:57

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 90.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,2'-oxybis[1-chloropropane]	0.022	U	0.36	0.022	mg/Kg	✱	10/22/23 00:26	1	YAH
2,3,4,6-Tetrachlorophenol	0.025	U	0.36	0.025	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4,6-Trichlorophenol	0.047	U	0.15	0.047	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4-Dichlorophenol	0.023	U	0.15	0.023	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4-Dinitrophenol	0.18	U	0.29	0.18	mg/Kg	✱	10/22/23 00:26	1	YAH
2,4-Dinitrotoluene	0.039	U	0.074	0.039	mg/Kg	✱	10/22/23 00:26	1	YAH
2,6-Dinitrotoluene	0.026	U	0.074	0.026	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Methylphenol	0.014	U	0.36	0.014	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Nitroaniline	0.028	U	0.36	0.028	mg/Kg	✱	10/22/23 00:26	1	YAH
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	✱	10/22/23 00:26	1	YAH
3,3'-Dichlorobenzidine	0.055	U	0.15	0.055	mg/Kg	✱	10/22/23 00:26	1	YAH
3-Nitroaniline	0.086	U	0.36	0.086	mg/Kg	✱	10/22/23 00:26	1	YAH
4,6-Dinitro-2-methylphenol	0.15	U	0.29	0.15	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Chloroaniline	0.065	U	0.36	0.065	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Methylphenol	0.023	U	0.36	0.023	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Nitroaniline	0.042	U	0.36	0.042	mg/Kg	✱	10/22/23 00:26	1	YAH
4-Nitrophenol	0.059	U	0.74	0.059	mg/Kg	✱	10/22/23 00:26	1	YAH
Acenaphthene	0.023	J	0.36	0.010	mg/Kg	✱	10/22/23 00:26	1	YAH
Acenaphthylene	0.017	J	0.36	0.010	mg/Kg	✱	10/22/23 00:26	1	YAH
Acetophenone	0.018	U	0.36	0.018	mg/Kg	✱	10/22/23 00:26	1	YAH
Anthracene	0.039	J	0.36	0.011	mg/Kg	✱	10/22/23 00:26	1	YAH
Atrazine	0.021	U	0.15	0.021	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzaldehyde	0.060	U	0.36	0.060	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzo[a]anthracene	0.084		0.036	0.027	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzo[a]pyrene	0.084		0.036	0.0097	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzo[b]fluoranthene	0.099		0.036	0.0094	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzo[g,h,i]perylene	0.047	J	0.36	0.011	mg/Kg	✱	10/22/23 00:26	1	YAH
Benzo[k]fluoranthene	0.033	J	0.036	0.0071	mg/Kg	✱	10/22/23 00:26	1	YAH
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	✱	10/22/23 00:26	1	YAH
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	✱	10/22/23 00:26	1	YAH
Bis(2-ethylhexyl) phthalate	0.033	J	0.36	0.019	mg/Kg	✱	10/22/23 00:26	1	YAH
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	✱	10/22/23 00:26	1	YAH
Caprolactam	0.057	U	0.36	0.057	mg/Kg	✱	10/22/23 00:26	1	YAH
Carbazole	0.014	U	0.36	0.014	mg/Kg	✱	10/22/23 00:26	1	YAH
Chrysene	0.091	J	0.36	0.015	mg/Kg	✱	10/22/23 00:26	1	YAH
Dibenz(a,h)anthracene	0.016	U	0.036	0.016	mg/Kg	✱	10/22/23 00:26	1	YAH
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	✱	10/22/23 00:26	1	YAH
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	✱	10/22/23 00:26	1	YAH
Dimethyl phthalate	0.083	U	0.36	0.083	mg/Kg	✱	10/22/23 00:26	1	YAH
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	✱	10/22/23 00:26	1	YAH
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	✱	10/22/23 00:26	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-108(5.0-6.0)

Lab Sample ID: 460-290809-3

Date Collected: 10/19/23 13:57

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 90.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoranthene	0.15	J	0.36	0.013	mg/Kg	☼	10/22/23 00:26	1	YAH
Fluorene	0.023	J	0.36	0.011	mg/Kg	☼	10/22/23 00:26	1	YAH
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	10/22/23 00:26	1	YAH
Hexachlorobutadiene	0.0078	U	0.074	0.0078	mg/Kg	☼	10/22/23 00:26	1	YAH
Hexachlorocyclopentadiene	~~0.032~~	~~U*~~	~~0.36~~	~~0.032~~	~~mg/Kg~~	~~☼~~	~~10/22/23 00:26~~	1	YAH
Hexachloroethane	0.013	U	0.036	0.013	mg/Kg	☼	10/22/23 00:26	1	YAH
Indeno[1,2,3-cd]pyrene	0.075		0.036	0.014	mg/Kg	☼	10/22/23 00:26	1	YAH
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/22/23 00:26	1	YAH
Naphthalene	0.0076	J	0.36	0.0063	mg/Kg	☼	10/22/23 00:26	1	YAH
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	10/22/23 00:26	1	YAH
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	10/22/23 00:26	1	YAH
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	10/22/23 00:26	1	YAH
Pentachlorophenol	0.075	U	0.29	0.075	mg/Kg	☼	10/22/23 00:26	1	YAH
Phenanthrene	0.13	J	0.36	0.015	mg/Kg	☼	10/22/23 00:26	1	YAH
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	10/22/23 00:26	1	YAH
Pyrene	0.14	J	0.36	0.0091	mg/Kg	☼	10/22/23 00:26	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Nonanoic acid, 9-oxo-, methyl ester	0.33	J N	mg/Kg	☼	5.39	1931-63-1	10/22/23 00:26	1	YAH
9-Hexadecenoic acid, methyl ester, (Z)-	0.41	J N	mg/Kg	☼	7.07	1120-25-8	10/22/23 00:26	1	YAH
Hexadecanoic acid, methyl ester	16	J N	mg/Kg	☼	7.14	112-39-0	10/22/23 00:26	1	YAH
n-Hexadecanoic acid	0.65	J N	mg/Kg	☼	7.24	57-10-3	10/22/23 00:26	1	YAH
11,14-Octadecadienoic acid, methyl ester	35	J N	mg/Kg	☼	7.66	56554-61-1	10/22/23 00:26	1	YAH
11-Octadecenoic acid, methyl ester	0.52	J N	mg/Kg	☼	7.71	52380-33-3	10/22/23 00:26	1	YAH
Octadecanoic acid, methyl ester	7.1	J N	mg/Kg	☼	7.74	112-61-8	10/22/23 00:26	1	YAH
9-Octadecenoic acid, (E)-	2.2	J N	mg/Kg	☼	7.77	112-79-8	10/22/23 00:26	1	YAH
Octadecanoic acid	0.37	J N	mg/Kg	☼	7.83	57-11-4	10/22/23 00:26	1	YAH
Unknown	0.44	J N	mg/Kg	☼	8.17	N/A	10/22/23 00:26	1	YAH
Unknown	0.99	J N	mg/Kg	☼	8.22	N/A	10/22/23 00:26	1	YAH
Unknown	3.1	J N	mg/Kg	☼	8.29	N/A	10/22/23 00:26	1	YAH
Unknown	2.1	J N	mg/Kg	☼	8.33	N/A	10/22/23 00:26	1	YAH
Unknown	0.40	J N	mg/Kg	☼	8.36	N/A	10/22/23 00:26	1	YAH
Unknown	0.42	J N	mg/Kg	☼	8.41	N/A	10/22/23 00:26	1	YAH
Unknown	3.4	J N	mg/Kg	☼	8.45	N/A	10/22/23 00:26	1	YAH
Unknown	0.36	J N	mg/Kg	☼	8.52	N/A	10/22/23 00:26	1	YAH
Unknown	0.32	J N	mg/Kg	☼	8.54	N/A	10/22/23 00:26	1	YAH
Unknown	2.3	J N	mg/Kg	☼	8.63	N/A	10/22/23 00:26	1	YAH
Unknown	0.39	J N	mg/Kg	☼	10.86	N/A	10/22/23 00:26	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	36		24 - 137	10/22/23 00:26	1	YAH
2-Fluorobiphenyl	37	S1-	48 - 120	10/22/23 00:26	1	YAH
2-Fluorophenol (Surr)	38		31 - 120	10/22/23 00:26	1	YAH
Nitrobenzene-d5 (Surr)	39		38 - 120	10/22/23 00:26	1	YAH
Phenol-d5 (Surr)	39		39 - 120	10/22/23 00:26	1	YAH
Terphenyl-d14 (Surr)	37		25 - 126	10/22/23 00:26	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-109(2.0-3.0)

Lab Sample ID: 460-290809-4

Date Collected: 10/20/23 11:15

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	✱	10/25/23 00:20	1	VBP
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	✱	10/25/23 00:20	1	VBP
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	✱	10/25/23 00:20	1	VBP
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/25/23 00:20	1	VBP
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	10/25/23 00:20	1	VBP
1,1-Dichloroethene	0.00025	U J	0.0011	0.00025	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2,4-Trichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2-Dibromo-3-Chloropropane	0.00052	U J	0.0011	0.00052	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2-Dichloroethane	0.00034	U	0.0011	0.00034	mg/Kg	✱	10/25/23 00:20	1	VBP
1,2-Dichloropropane	0.00048	U	0.0011	0.00048	mg/Kg	✱	10/25/23 00:20	1	VBP
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	10/25/23 00:20	1	VBP
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	✱	10/25/23 00:20	1	VBP
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	✱	10/25/23 00:20	1	VBP
2-Butanone (MEK)	0.00042	U	0.0057	0.00042	mg/Kg	✱	10/25/23 00:20	1	VBP
2-Hexanone	0.0019	U	0.0057	0.0019	mg/Kg	✱	10/25/23 00:20	1	VBP
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0057	0.0018	mg/Kg	✱	10/25/23 00:20	1	VBP
Acetone	0.016		0.0068	0.0065	mg/Kg	✱	10/25/23 00:20	1	VBP
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	✱	10/25/23 00:20	1	VBP
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	✱	10/25/23 00:20	1	VBP
Bromomethane	0.0011	U	0.0023	0.0011	mg/Kg	✱	10/25/23 00:20	1	VBP
Carbon disulfide	0.00030	U J	0.0011	0.00030	mg/Kg	✱	10/25/23 00:20	1	VBP
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	✱	10/25/23 00:20	1	VBP
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/25/23 00:20	1	VBP
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	✱	10/25/23 00:20	1	VBP
Chlorodibromomethane	0.00022	U	0.0011	0.00022	mg/Kg	✱	10/25/23 00:20	1	VBP
Chloroethane	0.00059	U	0.0011	0.00059	mg/Kg	✱	10/25/23 00:20	1	VBP
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	✱	10/25/23 00:20	1	VBP
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	✱	10/25/23 00:20	1	VBP
cis-1,2-Dichloroethene	0.00041	U	0.0011	0.00041	mg/Kg	✱	10/25/23 00:20	1	VBP
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	✱	10/25/23 00:20	1	VBP
Cyclohexane	0.00025	U J	0.0011	0.00025	mg/Kg	✱	10/25/23 00:20	1	VBP
Dichlorobromomethane	0.00029	U	0.0011	0.00029	mg/Kg	✱	10/25/23 00:20	1	VBP
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	✱	10/25/23 00:20	1	VBP
Ethylbenzene	0.00023	U	0.0011	0.00023	mg/Kg	✱	10/25/23 00:20	1	VBP
Ethylene Dibromide	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/25/23 00:20	1	VBP
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	✱	10/25/23 00:20	1	VBP
Methyl acetate	0.0049	U	0.0057	0.0049	mg/Kg	✱	10/25/23 00:20	1	VBP
Methyl tert-butyl ether	0.00058	U	0.0011	0.00058	mg/Kg	✱	10/25/23 00:20	1	VBP
Methylcyclohexane	0.00057	U J	0.0011	0.00057	mg/Kg	✱	10/25/23 00:20	1	VBP
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	✱	10/25/23 00:20	1	VBP
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	✱	10/25/23 00:20	1	VBP
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	✱	10/25/23 00:20	1	VBP
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	✱	10/25/23 00:20	1	VBP
Tetrachloroethene	0.00035	U	0.0011	0.00035	mg/Kg	✱	10/25/23 00:20	1	VBP
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	✱	10/25/23 00:20	1	VBP
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	✱	10/25/23 00:20	1	VBP
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	✱	10/25/23 00:20	1	VBP

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-109(2.0-3.0)

Lab Sample ID: 460-290809-4

Date Collected: 10/20/23 11:15

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	10/25/23 00:20	1	VBP
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	10/25/23 00:20	1	VBP
Vinyl chloride	0.00062	U	0.0011	0.00062	mg/Kg	☼	10/25/23 00:20	1	VBP

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/25/23 00:20	1	VBP

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	92		72 - 138	10/25/23 00:20	1	VBP
4-Bromofluorobenzene	83		63 - 139	10/25/23 00:20	1	VBP
Dibromofluoromethane (Surr)	96		54 - 150	10/25/23 00:20	1	VBP
Toluene-d8 (Surr)	95		71 - 126	10/25/23 00:20	1	VBP

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.014	U	0.40	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
1,2,4,5-Tetrachlorobenzene	0.013	U	0.40	0.013	mg/Kg	☼	10/22/23 03:05	1	YAH
2,2'-oxybis[1-chloropropane]	0.024	U	0.40	0.024	mg/Kg	☼	10/22/23 03:05	1	YAH
2,3,4,6-Tetrachlorophenol	0.027	U	0.40	0.027	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4,5-Trichlorophenol	0.041	U	0.40	0.041	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4,6-Trichlorophenol	0.052	U	0.16	0.052	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4-Dichlorophenol	0.026	U	0.16	0.026	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4-Dimethylphenol	0.048	U	0.40	0.048	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4-Dinitrophenol	0.20	U	0.32	0.20	mg/Kg	☼	10/22/23 03:05	1	YAH
2,4-Dinitrotoluene	0.043	U	0.081	0.043	mg/Kg	☼	10/22/23 03:05	1	YAH
2,6-Dinitrotoluene	0.029	U	0.081	0.029	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Chloronaphthalene	0.019	U	0.40	0.019	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Chlorophenol	0.014	U	0.40	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Methylnaphthalene	0.031	J	0.40	0.011	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Methylphenol	0.015	U	0.40	0.015	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Nitroaniline	0.031	U	0.40	0.031	mg/Kg	☼	10/22/23 03:05	1	YAH
2-Nitrophenol	0.040	U	0.40	0.040	mg/Kg	☼	10/22/23 03:05	1	YAH
3,3'-Dichlorobenzidine	0.061	U	0.16	0.061	mg/Kg	☼	10/22/23 03:05	1	YAH
3-Nitroaniline	0.095	U	0.40	0.095	mg/Kg	☼	10/22/23 03:05	1	YAH
4,6-Dinitro-2-methylphenol	0.16	U	0.32	0.16	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Bromophenyl phenyl ether	0.016	U	0.40	0.016	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Chloro-3-methylphenol	0.023	U	0.40	0.023	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Chloroaniline	0.071	U	0.40	0.071	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Chlorophenyl phenyl ether	0.014	U	0.40	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Methylphenol	0.025	U	0.40	0.025	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Nitroaniline	0.046	U	0.40	0.046	mg/Kg	☼	10/22/23 03:05	1	YAH
4-Nitrophenol	0.065	U	0.81	0.065	mg/Kg	☼	10/22/23 03:05	1	YAH
Acenaphthene	0.015	J	0.40	0.011	mg/Kg	☼	10/22/23 03:05	1	YAH
Acenaphthylene	0.022	J	0.40	0.011	mg/Kg	☼	10/22/23 03:05	1	YAH
Acetophenone	0.020	U	0.40	0.020	mg/Kg	☼	10/22/23 03:05	1	YAH
Anthracene	0.032	J	0.40	0.012	mg/Kg	☼	10/22/23 03:05	1	YAH
Atrazine	0.024	U	0.16	0.024	mg/Kg	☼	10/22/23 03:05	1	YAH
Benzaldehyde	0.066	U	0.40	0.066	mg/Kg	☼	10/22/23 03:05	1	YAH
Benzo[a]anthracene	0.12		0.040	0.030	mg/Kg	☼	10/22/23 03:05	1	YAH
Benzo[a]pyrene	0.17		0.040	0.011	mg/Kg	☼	10/22/23 03:05	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: SB-109(2.0-3.0)

Lab Sample ID: 460-290809-4

Date Collected: 10/20/23 11:15

Matrix: Solid

Date Received: 10/20/23 19:00

Percent Solids: 81.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.26		0.040	0.010	mg/Kg	☼	10/22/23 03:05	1	YAH
Benzo[g,h,i]perylene	0.090	J	0.40	0.012	mg/Kg	☼	10/22/23 03:05	1	YAH
Benzo[k]fluoranthene	0.075		0.040	0.0079	mg/Kg	☼	10/22/23 03:05	1	YAH
Bis(2-chloroethoxy)methane	0.031	U	0.40	0.031	mg/Kg	☼	10/22/23 03:05	1	YAH
Bis(2-chloroethyl)ether	0.014	U	0.040	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
Bis(2-ethylhexyl) phthalate	0.22	J	0.40	0.021	mg/Kg	☼	10/22/23 03:05	1	YAH
Butyl benzyl phthalate	0.019	U	0.40	0.019	mg/Kg	☼	10/22/23 03:05	1	YAH
Caprolactam	0.063	U	0.40	0.063	mg/Kg	☼	10/22/23 03:05	1	YAH
Carbazole	0.015	U	0.40	0.015	mg/Kg	☼	10/22/23 03:05	1	YAH
Chrysene	0.27	J	0.40	0.017	mg/Kg	☼	10/22/23 03:05	1	YAH
Dibenz(a,h)anthracene	0.025	J	0.040	0.017	mg/Kg	☼	10/22/23 03:05	1	YAH
Dibenzofuran	0.013	U	0.40	0.013	mg/Kg	☼	10/22/23 03:05	1	YAH
Diethyl phthalate	0.013	U	0.40	0.013	mg/Kg	☼	10/22/23 03:05	1	YAH
Dimethyl phthalate	0.091	U	0.40	0.091	mg/Kg	☼	10/22/23 03:05	1	YAH
Di-n-butyl phthalate	0.14	J	0.40	0.015	mg/Kg	☼	10/22/23 03:05	1	YAH
Di-n-octyl phthalate	0.021	U	0.40	0.021	mg/Kg	☼	10/22/23 03:05	1	YAH
Fluoranthene	0.26	J	0.40	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
Fluorene	0.027	J	0.40	0.012	mg/Kg	☼	10/22/23 03:05	1	YAH
Hexachlorobenzene	0.019	U	0.040	0.019	mg/Kg	☼	10/22/23 03:05	1	YAH
Hexachlorobutadiene	0.0086	U	0.081	0.0086	mg/Kg	☼	10/22/23 03:05	1	YAH
Hexachlorocyclopentadiene	R 0.035	U *	0.40	0.035	mg/Kg	☼	10/22/23 03:05	1	YAH
Hexachloroethane	0.014	U	0.040	0.014	mg/Kg	☼	10/22/23 03:05	1	YAH
Indeno[1,2,3-cd]pyrene	0.091		0.040	0.016	mg/Kg	☼	10/22/23 03:05	1	YAH
Isophorone	0.12	U	0.16	0.12	mg/Kg	☼	10/22/23 03:05	1	YAH
Naphthalene	0.018	J	0.40	0.0069	mg/Kg	☼	10/22/23 03:05	1	YAH
Nitrobenzene	0.022	U	0.040	0.022	mg/Kg	☼	10/22/23 03:05	1	YAH
N-Nitrosodi-n-propylamine	0.029	U	0.040	0.029	mg/Kg	☼	10/22/23 03:05	1	YAH
N-Nitrosodiphenylamine	0.033	U	0.40	0.033	mg/Kg	☼	10/22/23 03:05	1	YAH
Pentachlorophenol	0.082	U	0.32	0.082	mg/Kg	☼	10/22/23 03:05	1	YAH
Phenanthrene	0.12	J	0.40	0.016	mg/Kg	☼	10/22/23 03:05	1	YAH
Phenol	0.015	U	0.40	0.015	mg/Kg	☼	10/22/23 03:05	1	YAH
Pyrene	0.27	J	0.40	0.010	mg/Kg	☼	10/22/23 03:05	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	R 1.1	A J	mg/Kg	☼	2.70	N/A	10/22/23 03:05	1	YAH
Dodecane, 2,7,10-trimethyl-	0.42	J N	mg/Kg	☼	8.05	74645-98-0	10/22/23 03:05	1	YAH
Unknown	0.34	J N	mg/Kg	☼	8.49	N/A	10/22/23 03:05	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	51		24 - 137	10/22/23 03:05	1	YAH
2-Fluorobiphenyl	61		48 - 120	10/22/23 03:05	1	YAH
2-Fluorophenol (Surr)	70		31 - 120	10/22/23 03:05	1	YAH
Nitrobenzene-d5 (Surr)	67		38 - 120	10/22/23 03:05	1	YAH
Phenol-d5 (Surr)	70		39 - 120	10/22/23 03:05	1	YAH
Terphenyl-d14 (Surr)	59		25 - 126	10/22/23 03:05	1	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: Trip Blank-20231019

Lab Sample ID: 460-290809-5

Date Collected: 10/19/23 00:00

Matrix: Water

Date Received: 10/20/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		10/30/23 15:05	1	MZS
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		10/30/23 15:05	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		10/30/23 15:05	1	MZS
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		10/30/23 15:05	1	MZS
1,1-Dichloroethane	0.26	U J	1.0	0.26	ug/L		10/30/23 15:05	1	MZS
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		10/30/23 15:05	1	MZS
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L		10/30/23 15:05	1	MZS
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		10/30/23 15:05	1	MZS
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		10/30/23 15:05	1	MZS
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		10/30/23 15:05	1	MZS
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		10/30/23 15:05	1	MZS
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		10/30/23 15:05	1	MZS
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		10/30/23 15:05	1	MZS
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		10/30/23 15:05	1	MZS
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		10/30/23 15:05	1	MZS
2-Hexanone	1.1	U	5.0	1.1	ug/L		10/30/23 15:05	1	MZS
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		10/30/23 15:05	1	MZS
Acetone	4.4	U J	5.0	4.4	ug/L		10/30/23 15:05	1	MZS
Benzene	0.20	U	1.0	0.20	ug/L		10/30/23 15:05	1	MZS
Bromoform	0.54	U	1.0	0.54	ug/L		10/30/23 15:05	1	MZS
Bromomethane	0.55	U	1.0	0.55	ug/L		10/30/23 15:05	1	MZS
Carbon disulfide	0.82	U J	1.0	0.82	ug/L		10/30/23 15:05	1	MZS
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		10/30/23 15:05	1	MZS
Chlorobenzene	0.38	U	1.0	0.38	ug/L		10/30/23 15:05	1	MZS
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		10/30/23 15:05	1	MZS
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L		10/30/23 15:05	1	MZS
Chloroethane	0.32	U	1.0	0.32	ug/L		10/30/23 15:05	1	MZS
Chloroform	0.33	U	1.0	0.33	ug/L		10/30/23 15:05	1	MZS
Chloromethane	0.40	U	1.0	0.40	ug/L		10/30/23 15:05	1	MZS
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		10/30/23 15:05	1	MZS
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/30/23 15:05	1	MZS
Cyclohexane	0.32	U J	1.0	0.32	ug/L		10/30/23 15:05	1	MZS
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		10/30/23 15:05	1	MZS
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		10/30/23 15:05	1	MZS
Ethylbenzene	0.30	U	1.0	0.30	ug/L		10/30/23 15:05	1	MZS
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		10/30/23 15:05	1	MZS
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		10/30/23 15:05	1	MZS
Methyl acetate	0.79	U	5.0	0.79	ug/L		10/30/23 15:05	1	MZS
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		10/30/23 15:05	1	MZS
Methylcyclohexane	0.71	U J	1.0	0.71	ug/L		10/30/23 15:05	1	MZS
Methylene Chloride	0.32	U	1.0	0.32	ug/L		10/30/23 15:05	1	MZS
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		10/30/23 15:05	1	MZS
o-Xylene	0.36	U	1.0	0.36	ug/L		10/30/23 15:05	1	MZS
Styrene	0.42	U	1.0	0.42	ug/L		10/30/23 15:05	1	MZS
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		10/30/23 15:05	1	MZS
Toluene	0.38	U	1.0	0.38	ug/L		10/30/23 15:05	1	MZS
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		10/30/23 15:05	1	MZS
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/30/23 15:05	1	MZS
Trichloroethene	0.31	U	1.0	0.31	ug/L		10/30/23 15:05	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-290809-1

Client Sample ID: Trip Blank-20231019

Lab Sample ID: 460-290809-5

Date Collected: 10/19/23 00:00

Matrix: Water

Date Received: 10/20/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		10/30/23 15:05	1	MZS
Vinyl chloride	0.17	U	1.0	0.17	ug/L		10/30/23 15:05	1	MZS
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	100		70 - 128				10/30/23 15:05	1	MZS
4-Bromofluorobenzene	95		76 - 120				10/30/23 15:05	1	MZS
Dibromofluoromethane (Surr)	110		77 - 132				10/30/23 15:05	1	MZS
Toluene-d8 (Surr)	96		80 - 120				10/30/23 15:05	1	MZS

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-291054-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52267R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-291054-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-105(2.0-2.8)	460-291054-1	Soil	10/24/2023		X	X			
SB-103(18.0-18.5)	460-291054-2	Soil	10/24/2023		X	X			
SB-103(11.5-12.5)	460-291054-3	Soil	10/24/2023		X	X			
SB-103(15.0-16.0)	460-291054-4	Soil	10/24/2023		X	X			
SB-113(7.0-8.0)	460-291054-5	Soil	10/24/2023		X	X			
SB-116(2.0-3.0)	460-291054-6	Soil	10/23/2023		X	X			
SB-118(1.0-2.0)	460-291054-7	Soil	10/23/2023		X	X			
SB-114(1.0-1.5)	460-291054-8	Soil	10/23/2023		X	X			
Trip Blank	460-291054-9	Water	10/24/2023		X				

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-103(11.5-12.5) SB-103(15.0-16.0)	ICV %D	Dichlorodifluoromethane	-21.2%
		Carbon disulfide	-22.6%
SB-105(2.0-2.8) SB-103(18.0-18.5) SB-113(7.0-8.0) SB-116(2.0-3.0) SB-118(1.0-2.0) SB-114(1.0-1.5)	ICV %D	1,1-Dichloroethene	-22.2%
		Carbon disulfide	-35.7%
		Cyclohexane	-27.6%
		Methylcyclohexane	-21.8%
SB-103(18.0-18.5) SB-113(7.0-8.0) SB-118(1.0-2.0) SB-114(1.0-1.5)	CCV %D	Bromomethane	23.3%
		Methyl acetate	-21.0%
		Bromoform	-22.4%
SB-105(2.0-2.8) SB-116(2.0-3.0)	CCV %D	Bromomethane	31.8%
		Chloroethane	28.6%
		Tetrachloroethene	-26.0%
		Chlorodibromomethane	-21.1%

Data Usability Summary Report

Sample Locations	Initial/Continuing	Compound	Criteria
Trip Blank		Bromoform	-29.2%
		1,2,4-Trichlorobenzene	-23.5%
		1,2,3-Trichlorobenzene	-24.9%
	ICV %D	Carbon disulfide	-36.1%
		trans-1,2-Dichloroethene	-23.9%
		1,1-Dichloroethane	-29.4%
		Cyclohexane	-28.8%
		Methylcyclohexane	-31.5%
		Toluene	-20.5%
	CCV %D	Acetone	-23.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS/LCSD recoveries were within control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-105(2.0-2.8) SB-103(18.0-18.5) SB-103(11.5-12.5) SB-103(15.0-16.0)	ICV %D	Benzaldehyde	-58.4%
SB-113(7.0-8.0) SB-116(2.0-3.0) SB-118(1.0-2.0) SB-114(1.0-1.5)	CCV %D	Benzaldehyde	-25.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-105(2.0-2.8)	Hexachlorocyclopentadiene	<10%	<10%
SB-103(18.0-18.5)			
SB-103(11.5-12.5)			
SB-103(15.0-16.0)			
SB-113(7.0-8.0)			
SB-116(2.0-3.0)			
SB-118(1.0-2.0)			
SB-114(1.0-1.5)			

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J

Control Limit	Sample Result	Qualification
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

A field duplicate analysis was not performed on a sample within this SDG.

10. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as "Aldol condensation product" are laboratory artifacts and were qualified as rejected (R).

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-103(11.5-12.5)	2-Methylnaphthalene	--	420 D	420 D
	Acenaphthene	--	210 D	210 D
	Acenaphthylene	--	180 D	180 D
	Anthracene	--	570 D	570 D
	Benzo[a]anthracene	--	120 D	120 D
	Benzo[a]pyrene	--	100 D	100 D
	Chrysene	--	140 D	140 D
	Fluoranthene	--	230 D	230 D
	Fluorene	--	230 D	230 D
	Naphthalene	--	930 D	930 D
	Phenanthrene	--	640 D	640 D
	Pyrene	--	310 D	310 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-103(15.0-16.0)	Acenaphthene	--	15 D	15 D
	Anthracene	--	16 D	16 D
	Fluoranthene	--	13 D	13 D
	Fluorene	--	12 D	12 D
	Naphthalene	--	25 D	25 D
	Phenanthrene	--	35 D	35 D
	Pyrene	--	19 D	19 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-291054-1	10/24/2023	SW846/USEPA	SB-105(2.0-2.8)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-103(18.0-18.5)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-103(11.5-12.5)	Soil	no	no	--	--	--	VOC – ICV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-103(15.0-16.0)	Soil	no	no	--	--	--	VOC – ICV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-113(7.0-8.0)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/23/2023	SW846/USEPA	SB-116(2.0-3.0)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/23/2023	SW846/USEPA	SB-118(1.0-2.0)	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/23/2023	SW846/USEPA	SB-114(1.0-1.5)	Soil	no	no	--	--	--	VOC – ICV/CCV %D

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	Trip Blank	Water	no	--	--	--	--	VOC – ICV/CCV %D

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: December 28, 2023

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

678202



Environment Testing
America

TAL-8210

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact Company Name: AFGTS Address: 201 W Fayette St City/State/Zip: 54945 NY 13202 Phone: 973-216-8217 Fax: Project Name: Con Edison 0552102 NY Site: Con Edison 0552102 NY PO#		Project Manager M. Ching Jones Tel/Email: M. Ching Jones Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below: <u>STD</u> ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Tom Ruller Date: 10/24/23 Carrier: Lab Contact: Perform MS / MSD (Y / N) Filtered Sample (Y / N)		COC No: _____ of _____ COCs Sampler: For Lab Use Only: Walk-In Client: Lab Sampling: Job / SDG No: 291054	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix # of Cont.		Sample Specific Notes:					
SB-103 (20-2.8)		10/24	912	G	51	6	ELMSFORD 272 SHORT HOLD 460-291054 Chain of Custody
SB-03 (18.0-18.5)		10/24	920	G			
SB-103 (15-12.5)		10/24	902	G			
SB-103 (15.0-16.0)		10/24	922	G			
SB-113 (7.0-8.0)		10/24	1059	G			
SB-116 (2.0-3.0)		10/23	1117	G			
SB-118 (1.0-2.0)		10/23	1438	G			
SB-114 (1.0-1.5)		10/23	1131	G			
TCP Blank		-	-	-	-	2	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
Special Instructions/QC Requirements & Comments.							
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: Tom Ruller Relinquished by: [Signature] Relinquished by: [Signature]		Custody Seal No. Company: AFGTS Company: ETA Company: [Signature]		Date/Time: 10/24/23 1435 Date/Time: 10-24-23 1435 Date/Time: 10/24/23 2000		Therm ID No: _____ Cooler Temp. (°C): Obs'd: _____ Received by: [Signature] Received by: [Signature] Received Laboratory by: [Signature]	

2.2 34789

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-105(2.0-2.8)

Lab Sample ID: 460-291054-1

Date Collected: 10/24/23 09:12

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00019	U	0.00081	0.00019	mg/Kg	✱	11/01/23 01:57	1	EMM
1,1,2,2-Tetrachloroethane	0.00017	U	0.00081	0.00017	mg/Kg	✱	11/01/23 01:57	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00024	U	0.00081	0.00024	mg/Kg	✱	11/01/23 01:57	1	EMM
1,1,2-Trichloroethane	0.00014	U	0.00081	0.00014	mg/Kg	✱	11/01/23 01:57	1	EMM
1,1-Dichloroethane	0.00017	U	0.00081	0.00017	mg/Kg	✱	11/01/23 01:57	1	EMM
1,1-Dichloroethene	0.0010	J	0.00081	0.00018	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2,3-Trichlorobenzene	0.00015	U J	0.00081	0.00015	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2,4-Trichlorobenzene	0.00029	U J	0.00081	0.00029	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2-Dibromo-3-Chloropropane	0.00037	U	0.00081	0.00037	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2-Dichlorobenzene	0.00029	U	0.00081	0.00029	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2-Dichloroethane	0.00024	U	0.00081	0.00024	mg/Kg	✱	11/01/23 01:57	1	EMM
1,2-Dichloropropane	0.00034	U	0.00081	0.00034	mg/Kg	✱	11/01/23 01:57	1	EMM
1,3-Dichlorobenzene	0.00030	U	0.00081	0.00030	mg/Kg	✱	11/01/23 01:57	1	EMM
1,4-Dichlorobenzene	0.00018	U	0.00081	0.00018	mg/Kg	✱	11/01/23 01:57	1	EMM
1,4-Dioxane	0.0074	U	0.081	0.0074	mg/Kg	✱	11/01/23 01:57	1	EMM
2-Butanone (MEK)	0.00030	U	0.0040	0.00030	mg/Kg	✱	11/01/23 01:57	1	EMM
2-Hexanone	0.0014	U	0.0040	0.0014	mg/Kg	✱	11/01/23 01:57	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0040	0.0013	mg/Kg	✱	11/01/23 01:57	1	EMM
Acetone	0.047		0.0049	0.0046	mg/Kg	✱	11/01/23 01:57	1	EMM
Benzene	0.00021	U	0.00081	0.00021	mg/Kg	✱	11/01/23 01:57	1	EMM
Bromoform	0.00034	U J	0.00081	0.00034	mg/Kg	✱	11/01/23 01:57	1	EMM
Bromomethane	0.00081	U J	0.0016	0.00081	mg/Kg	✱	11/01/23 01:57	1	EMM
Carbon disulfide	0.00022	U J	0.00081	0.00022	mg/Kg	✱	11/01/23 01:57	1	EMM
Carbon tetrachloride	0.00031	U	0.00081	0.00031	mg/Kg	✱	11/01/23 01:57	1	EMM
Chlorobenzene	0.00014	U	0.00081	0.00014	mg/Kg	✱	11/01/23 01:57	1	EMM
Chlorobromomethane	0.00023	U J	0.00081	0.00023	mg/Kg	✱	11/01/23 01:57	1	EMM
Chlorodibromomethane	0.00016	U	0.00081	0.00016	mg/Kg	✱	11/01/23 01:57	1	EMM
Chloroethane	0.00042	U J	0.00081	0.00042	mg/Kg	✱	11/01/23 01:57	1	EMM
Chloroform	0.00079	U	0.00081	0.00079	mg/Kg	✱	11/01/23 01:57	1	EMM
Chloromethane	0.00035	U	0.00081	0.00035	mg/Kg	✱	11/01/23 01:57	1	EMM
cis-1,2-Dichloroethene	0.00029	U	0.00081	0.00029	mg/Kg	✱	11/01/23 01:57	1	EMM
cis-1,3-Dichloropropene	0.00022	U	0.00081	0.00022	mg/Kg	✱	11/01/23 01:57	1	EMM
Cyclohexane	0.00018	U J	0.00081	0.00018	mg/Kg	✱	11/01/23 01:57	1	EMM
Dichlorobromomethane	0.00021	U	0.00081	0.00021	mg/Kg	✱	11/01/23 01:57	1	EMM
Dichlorodifluoromethane	0.00027	U	0.00081	0.00027	mg/Kg	✱	11/01/23 01:57	1	EMM
Ethylbenzene	0.00016	U	0.00081	0.00016	mg/Kg	✱	11/01/23 01:57	1	EMM
Ethylene Dibromide	0.00015	U	0.00081	0.00015	mg/Kg	✱	11/01/23 01:57	1	EMM
Isopropylbenzene	0.00023	U	0.00081	0.00023	mg/Kg	✱	11/01/23 01:57	1	EMM
Methyl acetate	0.0035	U	0.0040	0.0035	mg/Kg	✱	11/01/23 01:57	1	EMM
Methyl tert-butyl ether	0.00041	U	0.00081	0.00041	mg/Kg	✱	11/01/23 01:57	1	EMM
Methylcyclohexane	0.00040	U J	0.00081	0.00040	mg/Kg	✱	11/01/23 01:57	1	EMM
Methylene Chloride	0.00093	U	0.0016	0.00093	mg/Kg	✱	11/01/23 01:57	1	EMM
m-Xylene & p-Xylene	0.00014	U	0.00081	0.00014	mg/Kg	✱	11/01/23 01:57	1	EMM
o-Xylene	0.00016	U	0.00081	0.00016	mg/Kg	✱	11/01/23 01:57	1	EMM
Styrene	0.00023	U	0.00081	0.00023	mg/Kg	✱	11/01/23 01:57	1	EMM
Tetrachloroethene	0.00025	U J	0.00081	0.00025	mg/Kg	✱	11/01/23 01:57	1	EMM
Toluene	0.00019	U	0.00081	0.00019	mg/Kg	✱	11/01/23 01:57	1	EMM
trans-1,2-Dichloroethene	0.00020	U	0.00081	0.00020	mg/Kg	✱	11/01/23 01:57	1	EMM
trans-1,3-Dichloropropene	0.00022	U	0.00081	0.00022	mg/Kg	✱	11/01/23 01:57	1	EMM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-105(2.0-2.8)

Lab Sample ID: 460-291054-1

Date Collected: 10/24/23 09:12

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00026	U	0.00081	0.00026	mg/Kg	☼	11/01/23 01:57	1	EMM
Trichlorofluoromethane	0.00033	U	0.00081	0.00033	mg/Kg	☼	11/01/23 01:57	1	EMM
Vinyl chloride	0.00044	U	0.00081	0.00044	mg/Kg	☼	11/01/23 01:57	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 01:57	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	101		72 - 138	11/01/23 01:57	1	EMM
4-Bromofluorobenzene	90		63 - 139	11/01/23 01:57	1	EMM
Dibromofluoromethane (Surr)	106		54 - 150	11/01/23 01:57	1	EMM
Toluene-d8 (Surr)	100		71 - 126	11/01/23 01:57	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.014	J	0.34	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	10/26/23 06:28	1	MME
2,2'-oxybis[1-chloropropane]	0.021	U	0.34	0.021	mg/Kg	☼	10/26/23 06:28	1	MME
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☼	10/26/23 06:28	1	MME
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	10/26/23 06:28	1	MME
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	10/26/23 06:28	1	MME
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/26/23 06:28	1	MME
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	10/26/23 06:28	1	MME
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	10/26/23 06:28	1	MME
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	10/26/23 06:28	1	MME
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	10/26/23 06:28	1	MME
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	10/26/23 06:28	1	MME
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
2-Methylnaphthalene	0.056	J	0.34	0.0096	mg/Kg	☼	10/26/23 06:28	1	MME
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	10/26/23 06:28	1	MME
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	10/26/23 06:28	1	MME
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	10/26/23 06:28	1	MME
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	10/26/23 06:28	1	MME
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	10/26/23 06:28	1	MME
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	10/26/23 06:28	1	MME
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	10/26/23 06:28	1	MME
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	10/26/23 06:28	1	MME
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	10/26/23 06:28	1	MME
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	10/26/23 06:28	1	MME
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	10/26/23 06:28	1	MME
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	10/26/23 06:28	1	MME
Acenaphthene	0.071	J	0.34	0.0098	mg/Kg	☼	10/26/23 06:28	1	MME
Acenaphthylene	0.25	J	0.34	0.0099	mg/Kg	☼	10/26/23 06:28	1	MME
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	10/26/23 06:28	1	MME
Anthracene	0.36		0.34	0.010	mg/Kg	☼	10/26/23 06:28	1	MME
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	10/26/23 06:28	1	MME
Benzaldehyde	0.057	U J	0.34	0.057	mg/Kg	☼	10/26/23 06:28	1	MME
Benzo[a]anthracene	1.2		0.034	0.026	mg/Kg	☼	10/26/23 06:28	1	MME
Benzo[a]pyrene	1.2		0.034	0.0092	mg/Kg	☼	10/26/23 06:28	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-105(2.0-2.8)

Lab Sample ID: 460-291054-1

Date Collected: 10/24/23 09:12

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 95.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	1.6		0.034	0.0089	mg/Kg	☼	10/26/23 06:28	1	MME
Benzo[g,h,i]perylene	0.53		0.34	0.010	mg/Kg	☼	10/26/23 06:28	1	MME
Benzo[k]fluoranthene	0.59		0.034	0.0068	mg/Kg	☼	10/26/23 06:28	1	MME
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	10/26/23 06:28	1	MME
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
Bis(2-ethylhexyl) phthalate	0.045	J	0.34	0.018	mg/Kg	☼	10/26/23 06:28	1	MME
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	10/26/23 06:28	1	MME
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	10/26/23 06:28	1	MME
Carbazole	0.055	J	0.34	0.013	mg/Kg	☼	10/26/23 06:28	1	MME
Chrysene	1.2		0.34	0.014	mg/Kg	☼	10/26/23 06:28	1	MME
Dibenz(a,h)anthracene	0.18		0.034	0.015	mg/Kg	☼	10/26/23 06:28	1	MME
Dibenzofuran	0.070	J	0.34	0.011	mg/Kg	☼	10/26/23 06:28	1	MME
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	10/26/23 06:28	1	MME
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	10/26/23 06:28	1	MME
Di-n-butyl phthalate	0.027	J	0.34	0.013	mg/Kg	☼	10/26/23 06:28	1	MME
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	10/26/23 06:28	1	MME
Fluoranthene	2.2		0.34	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
Fluorene	0.15	J	0.34	0.010	mg/Kg	☼	10/26/23 06:28	1	MME
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	10/26/23 06:28	1	MME
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	10/26/23 06:28	1	MME
Hexachlorocyclopentadiene	R 0.030	U *	0.34	0.030	mg/Kg	☼	10/26/23 06:28	1	MME
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	10/26/23 06:28	1	MME
Indeno[1,2,3-cd]pyrene	0.67		0.034	0.013	mg/Kg	☼	10/26/23 06:28	1	MME
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/26/23 06:28	1	MME
Naphthalene	0.054	J	0.34	0.0060	mg/Kg	☼	10/26/23 06:28	1	MME
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	10/26/23 06:28	1	MME
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	10/26/23 06:28	1	MME
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	10/26/23 06:28	1	MME
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	10/26/23 06:28	1	MME
Phenanthrene	1.1		0.34	0.014	mg/Kg	☼	10/26/23 06:28	1	MME
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	10/26/23 06:28	1	MME
Pyrene	2.2		0.34	0.0086	mg/Kg	☼	10/26/23 06:28	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Phenanthrene, 2-methyl-	0.28	J N	mg/Kg	☼	8.83	2531-84-2	10/26/23 06:28	1	MME
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	0.62	J N	mg/Kg	☼	9.53	6566-19-4	10/26/23 06:28	1	MME
11H-Benzo[b]fluorene	0.32	J N	mg/Kg	☼	10.02	243-17-4	10/26/23 06:28	1	MME
Fluoranthene, 2-methyl-	0.28	J N	mg/Kg	☼	10.11	33543-31-6	10/26/23 06:28	1	MME
Perylene	0.79	J N	mg/Kg	☼	12.57	198-55-0	10/26/23 06:28	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	43		24 - 137	10/26/23 06:28	1	MME
2-Fluorobiphenyl	53		48 - 120	10/26/23 06:28	1	MME
2-Fluorophenol (Surr)	47		31 - 120	10/26/23 06:28	1	MME
Nitrobenzene-d5 (Surr)	53		38 - 120	10/26/23 06:28	1	MME
Phenol-d5 (Surr)	50		39 - 120	10/26/23 06:28	1	MME
Terphenyl-d14 (Surr)	56		25 - 126	10/26/23 06:28	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(18.0-18.5)

Lab Sample ID: 460-291054-2

Date Collected: 10/24/23 09:20

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00090	0.00021	mg/Kg	☆	11/01/23 18:20	1	EMM
1,1,2,2-Tetrachloroethane	0.00019	U	0.00090	0.00019	mg/Kg	☆	11/01/23 18:20	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00090	0.00027	mg/Kg	☆	11/01/23 18:20	1	EMM
1,1,2-Trichloroethane	0.00016	U	0.00090	0.00016	mg/Kg	☆	11/01/23 18:20	1	EMM
1,1-Dichloroethane	0.00018	U	0.00090	0.00018	mg/Kg	☆	11/01/23 18:20	1	EMM
1,1-Dichloroethene	0.00092	J	0.00090	0.00020	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2,3-Trichlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2,4-Trichlorobenzene	0.00032	U	0.00090	0.00032	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2-Dibromo-3-Chloropropane	0.00041	U	0.00090	0.00041	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2-Dichlorobenzene	0.00032	U	0.00090	0.00032	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2-Dichloroethane	0.00027	U	0.00090	0.00027	mg/Kg	☆	11/01/23 18:20	1	EMM
1,2-Dichloropropane	0.00038	U	0.00090	0.00038	mg/Kg	☆	11/01/23 18:20	1	EMM
1,3-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	☆	11/01/23 18:20	1	EMM
1,4-Dichlorobenzene	0.00020	U	0.00090	0.00020	mg/Kg	☆	11/01/23 18:20	1	EMM
1,4-Dioxane	0.0082	U	0.090	0.0082	mg/Kg	☆	11/01/23 18:20	1	EMM
2-Butanone (MEK)	0.00033	U	0.0045	0.00033	mg/Kg	☆	11/01/23 18:20	1	EMM
2-Hexanone	0.0015	U	0.0045	0.0015	mg/Kg	☆	11/01/23 18:20	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	☆	11/01/23 18:20	1	EMM
Acetone	0.015		0.0054	0.0051	mg/Kg	☆	11/01/23 18:20	1	EMM
Benzene	0.0036		0.00090	0.00023	mg/Kg	☆	11/01/23 18:20	1	EMM
Bromoform	0.00038	U J	0.00090	0.00038	mg/Kg	☆	11/01/23 18:20	1	EMM
Bromomethane	0.00090	U J	0.0018	0.00090	mg/Kg	☆	11/01/23 18:20	1	EMM
Carbon disulfide	0.0012	J	0.00090	0.00024	mg/Kg	☆	11/01/23 18:20	1	EMM
Carbon tetrachloride	0.00035	U	0.00090	0.00035	mg/Kg	☆	11/01/23 18:20	1	EMM
Chlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	☆	11/01/23 18:20	1	EMM
Chlorobromomethane	0.00025	U	0.00090	0.00025	mg/Kg	☆	11/01/23 18:20	1	EMM
Chlorodibromomethane	0.00017	U	0.00090	0.00017	mg/Kg	☆	11/01/23 18:20	1	EMM
Chloroethane	0.00047	U	0.00090	0.00047	mg/Kg	☆	11/01/23 18:20	1	EMM
Chloroform	0.00087	U	0.00090	0.00087	mg/Kg	☆	11/01/23 18:20	1	EMM
Chloromethane	0.00039	U	0.00090	0.00039	mg/Kg	☆	11/01/23 18:20	1	EMM
cis-1,2-Dichloroethene	0.00032	U	0.00090	0.00032	mg/Kg	☆	11/01/23 18:20	1	EMM
cis-1,3-Dichloropropene	0.00025	U	0.00090	0.00025	mg/Kg	☆	11/01/23 18:20	1	EMM
Cyclohexane	0.00020	U J	0.00090	0.00020	mg/Kg	☆	11/01/23 18:20	1	EMM
Dichlorobromomethane	0.00023	U	0.00090	0.00023	mg/Kg	☆	11/01/23 18:20	1	EMM
Dichlorodifluoromethane	0.00030	U	0.00090	0.00030	mg/Kg	☆	11/01/23 18:20	1	EMM
Ethylbenzene	0.0029		0.00090	0.00018	mg/Kg	☆	11/01/23 18:20	1	EMM
Ethylene Dibromide	0.00016	U	0.00090	0.00016	mg/Kg	☆	11/01/23 18:20	1	EMM
Isopropylbenzene	0.00084	J	0.00090	0.00026	mg/Kg	☆	11/01/23 18:20	1	EMM
Methyl acetate	0.0039	U J	0.0045	0.0039	mg/Kg	☆	11/01/23 18:20	1	EMM
Methyl tert-butyl ether	0.00046	U	0.00090	0.00046	mg/Kg	☆	11/01/23 18:20	1	EMM
Methylcyclohexane	0.00045	U J	0.00090	0.00045	mg/Kg	☆	11/01/23 18:20	1	EMM
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	☆	11/01/23 18:20	1	EMM
m-Xylene & p-Xylene	0.0033		0.00090	0.00016	mg/Kg	☆	11/01/23 18:20	1	EMM
o-Xylene	0.0018		0.00090	0.00017	mg/Kg	☆	11/01/23 18:20	1	EMM
Styrene	0.0033		0.00090	0.00025	mg/Kg	☆	11/01/23 18:20	1	EMM
Tetrachloroethene	0.0011		0.00090	0.00027	mg/Kg	☆	11/01/23 18:20	1	EMM
Toluene	0.0055		0.00090	0.00021	mg/Kg	☆	11/01/23 18:20	1	EMM
trans-1,2-Dichloroethene	0.00022	U	0.00090	0.00022	mg/Kg	☆	11/01/23 18:20	1	EMM
trans-1,3-Dichloropropene	0.00024	U	0.00090	0.00024	mg/Kg	☆	11/01/23 18:20	1	EMM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(18.0-18.5)

Lab Sample ID: 460-291054-2

Date Collected: 10/24/23 09:20

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00029	U	0.00090	0.00029	mg/Kg	☼	11/01/23 18:20	1	EMM
Trichlorofluoromethane	0.00036	U	0.00090	0.00036	mg/Kg	☼	11/01/23 18:20	1	EMM
Vinyl chloride	0.00049	U	0.00090	0.00049	mg/Kg	☼	11/01/23 18:20	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indene	0.017	J N	mg/Kg	☼	13.34	95-13-6	11/01/23 18:20	1	EMM
Naphthalene	0.10	J N	mg/Kg	☼	14.53	91-20-3	11/01/23 18:20	1	EMM
1H-Indene, 1,3-dimethyl-	0.016	J N	mg/Kg	☼	14.86	2177-48-2	11/01/23 18:20	1	EMM
1H-Indene, 1,1-dimethyl-	0.018	J N	mg/Kg	☼	14.93	18636-55-0	11/01/23 18:20	1	EMM
Naphthalene, 2-methyl-	0.026	J N	mg/Kg	☼	15.15	91-57-6	11/01/23 18:20	1	EMM
Naphthalene, 1-methyl-	0.19	J N	mg/Kg	☼	15.26	90-12-0	11/01/23 18:20	1	EMM
Biphenyl	0.036	J N	mg/Kg	☼	15.60	92-52-4	11/01/23 18:20	1	EMM
Naphthalene, 1-ethyl-	0.016	J N	mg/Kg	☼	15.76	1127-76-0	11/01/23 18:20	1	EMM
Naphthalene, 2,6-dimethyl-	0.059	J N	mg/Kg	☼	15.82	581-42-0	11/01/23 18:20	1	EMM
Naphthalene, 1,7-dimethyl-	0.11	J N	mg/Kg	☼	15.93	575-37-1	11/01/23 18:20	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	99		72 - 138	11/01/23 18:20	1	EMM
4-Bromofluorobenzene	89		63 - 139	11/01/23 18:20	1	EMM
Dibromofluoromethane (Surr)	102		54 - 150	11/01/23 18:20	1	EMM
Toluene-d8 (Surr)	98		71 - 126	11/01/23 18:20	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.091	J	0.37	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
1,2,4,5-Tetrachlorobenzene	0.012	U	0.37	0.012	mg/Kg	☼	10/26/23 00:18	1	MME
2,2'-oxybis[1-chloropropane]	0.022	U	0.37	0.022	mg/Kg	☼	10/26/23 00:18	1	MME
2,3,4,6-Tetrachlorophenol	0.025	U	0.37	0.025	mg/Kg	☼	10/26/23 00:18	1	MME
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	☼	10/26/23 00:18	1	MME
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☼	10/26/23 00:18	1	MME
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/26/23 00:18	1	MME
2,4-Dimethylphenol	0.045	U	0.37	0.045	mg/Kg	☼	10/26/23 00:18	1	MME
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	☼	10/26/23 00:18	1	MME
2,4-Dinitrotoluene	0.040	U	0.076	0.040	mg/Kg	☼	10/26/23 00:18	1	MME
2,6-Dinitrotoluene	0.027	U	0.076	0.027	mg/Kg	☼	10/26/23 00:18	1	MME
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	☼	10/26/23 00:18	1	MME
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
2-Methylnaphthalene	0.061	J	0.37	0.010	mg/Kg	☼	10/26/23 00:18	1	MME
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	☼	10/26/23 00:18	1	MME
2-Nitroaniline	0.028	U	0.37	0.028	mg/Kg	☼	10/26/23 00:18	1	MME
2-Nitrophenol	0.037	U	0.37	0.037	mg/Kg	☼	10/26/23 00:18	1	MME
3,3'-Dichlorobenzidine	0.056	U	0.15	0.056	mg/Kg	☼	10/26/23 00:18	1	MME
3-Nitroaniline	0.089	U	0.37	0.089	mg/Kg	☼	10/26/23 00:18	1	MME
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☼	10/26/23 00:18	1	MME
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	☼	10/26/23 00:18	1	MME
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	☼	10/26/23 00:18	1	MME
4-Chloroaniline	0.066	U	0.37	0.066	mg/Kg	☼	10/26/23 00:18	1	MME
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	☼	10/26/23 00:18	1	MME
4-Nitroaniline	0.043	U	0.37	0.043	mg/Kg	☼	10/26/23 00:18	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(18.0-18.5)

Lab Sample ID: 460-291054-2

Date Collected: 10/24/23 09:20

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitrophenol	0.061	U	0.76	0.061	mg/Kg	☼	10/26/23 00:18	1	MME
Acenaphthene	0.89		0.37	0.011	mg/Kg	☼	10/26/23 00:18	1	MME
Acenaphthylene	0.15	J	0.37	0.011	mg/Kg	☼	10/26/23 00:18	1	MME
Acetophenone	0.018	U	0.37	0.018	mg/Kg	☼	10/26/23 00:18	1	MME
Anthracene	0.68		0.37	0.011	mg/Kg	☼	10/26/23 00:18	1	MME
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	10/26/23 00:18	1	MME
Benzaldehyde	0.062	U J	0.37	0.062	mg/Kg	☼	10/26/23 00:18	1	MME
Benzo[a]anthracene	0.49		0.037	0.028	mg/Kg	☼	10/26/23 00:18	1	MME
Benzo[a]pyrene	0.39		0.037	0.010	mg/Kg	☼	10/26/23 00:18	1	MME
Benzo[b]fluoranthene	0.29		0.037	0.0097	mg/Kg	☼	10/26/23 00:18	1	MME
Benzo[g,h,i]perylene	0.13	J	0.37	0.011	mg/Kg	☼	10/26/23 00:18	1	MME
Benzo[k]fluoranthene	0.10		0.037	0.0073	mg/Kg	☼	10/26/23 00:18	1	MME
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	☼	10/26/23 00:18	1	MME
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
Bis(2-ethylhexyl) phthalate	0.020	U	0.37	0.020	mg/Kg	☼	10/26/23 00:18	1	MME
Butyl benzyl phthalate	0.018	U	0.37	0.018	mg/Kg	☼	10/26/23 00:18	1	MME
Caprolactam	0.058	U	0.37	0.058	mg/Kg	☼	10/26/23 00:18	1	MME
Carbazole	0.014	U	0.37	0.014	mg/Kg	☼	10/26/23 00:18	1	MME
Chrysene	0.43		0.37	0.016	mg/Kg	☼	10/26/23 00:18	1	MME
Dibenz(a,h)anthracene	0.038		0.037	0.016	mg/Kg	☼	10/26/23 00:18	1	MME
Dibenzofuran	0.083	J	0.37	0.012	mg/Kg	☼	10/26/23 00:18	1	MME
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	☼	10/26/23 00:18	1	MME
Dimethyl phthalate	0.085	U	0.37	0.085	mg/Kg	☼	10/26/23 00:18	1	MME
Di-n-butyl phthalate	0.034	J	0.37	0.014	mg/Kg	☼	10/26/23 00:18	1	MME
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	☼	10/26/23 00:18	1	MME
Fluoranthene	0.92		0.37	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
Fluorene	0.59		0.37	0.011	mg/Kg	☼	10/26/23 00:18	1	MME
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	☼	10/26/23 00:18	1	MME
Hexachlorobutadiene	0.0080	U	0.076	0.0080	mg/Kg	☼	10/26/23 00:18	1	MME
Hexachlorocyclopentadiene	R 0.033	U *	0.37	0.033	mg/Kg	☼	10/26/23 00:18	1	MME
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	☼	10/26/23 00:18	1	MME
Indeno[1,2,3-cd]pyrene	0.13		0.037	0.015	mg/Kg	☼	10/26/23 00:18	1	MME
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/26/23 00:18	1	MME
Naphthalene	0.14	J	0.37	0.0065	mg/Kg	☼	10/26/23 00:18	1	MME
Nitrobenzene	0.021	U	0.037	0.021	mg/Kg	☼	10/26/23 00:18	1	MME
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☼	10/26/23 00:18	1	MME
N-Nitrosodiphenylamine	0.031	U	0.37	0.031	mg/Kg	☼	10/26/23 00:18	1	MME
Pentachlorophenol	0.077	U	0.30	0.077	mg/Kg	☼	10/26/23 00:18	1	MME
Phenanthrene	2.5		0.37	0.015	mg/Kg	☼	10/26/23 00:18	1	MME
Phenol	0.014	U	0.37	0.014	mg/Kg	☼	10/26/23 00:18	1	MME
Pyrene	1.6		0.37	0.0093	mg/Kg	☼	10/26/23 00:18	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1,3-dimethyl-	0.35	J N	mg/Kg	☼	6.58	575-41-7	10/26/23 00:18	1	MME
Anthracene, 2-methyl-	0.51	J N	mg/Kg	☼	8.80	613-12-7	10/26/23 00:18	1	MME
5H-Dibenzo[a,d]cycloheptene	0.56	J N	mg/Kg	☼	8.83	256-81-5	10/26/23 00:18	1	MME
Phenanthrene, 2-methyl-	0.38	J N	mg/Kg	☼	8.93	2531-84-2	10/26/23 00:18	1	MME
Unknown	0.36	J N	mg/Kg	☼	9.57	N/A	10/26/23 00:18	1	MME
11H-Benzo[b]fluorene	0.31	J N	mg/Kg	☼	10.02	243-17-4	10/26/23 00:18	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(18.0-18.5)

Date Collected: 10/24/23 09:20

Date Received: 10/24/23 20:00

Lab Sample ID: 460-291054-2

Matrix: Solid

Percent Solids: 88.4

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	61		24 - 137	10/26/23 00:18	1	MME
2-Fluorobiphenyl	72		48 - 120	10/26/23 00:18	1	MME
2-Fluorophenol (Surr)	70		31 - 120	10/26/23 00:18	1	MME
Nitrobenzene-d5 (Surr)	79		38 - 120	10/26/23 00:18	1	MME
Phenol-d5 (Surr)	74		39 - 120	10/26/23 00:18	1	MME
Terphenyl-d14 (Surr)	80		25 - 126	10/26/23 00:18	1	MME

Client Sample ID: SB-103(11.5-12.5)

Date Collected: 10/24/23 09:02

Date Received: 10/24/23 20:00

Lab Sample ID: 460-291054-3

Matrix: Solid

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.34	U	1.2	0.34	mg/Kg	✱	11/01/23 18:33	500	MZS
1,1,2,2-Tetrachloroethane	0.24	U	1.2	0.24	mg/Kg	✱	11/01/23 18:33	500	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.41	U	1.2	0.41	mg/Kg	✱	11/01/23 18:33	500	MZS
1,1,2-Trichloroethane	0.25	U	1.2	0.25	mg/Kg	✱	11/01/23 18:33	500	MZS
1,1-Dichloroethane	0.29	U	1.2	0.29	mg/Kg	✱	11/01/23 18:33	500	MZS
1,1-Dichloroethene	0.32	U	1.2	0.32	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2,3-Trichlorobenzene	0.42	U	1.2	0.42	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2,4-Trichlorobenzene	0.33	U	1.2	0.33	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2-Dibromo-3-Chloropropane	0.26	U	1.2	0.26	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2-Dichlorobenzene	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2-Dichloroethane	0.30	U	1.2	0.30	mg/Kg	✱	11/01/23 18:33	500	MZS
1,2-Dichloropropane	0.22	U	1.2	0.22	mg/Kg	✱	11/01/23 18:33	500	MZS
1,3-Dichlorobenzene	0.40	U	1.2	0.40	mg/Kg	✱	11/01/23 18:33	500	MZS
1,4-Dichlorobenzene	0.40	U	1.2	0.40	mg/Kg	✱	11/01/23 18:33	500	MZS
1,4-Dioxane	34	U	60	34	mg/Kg	✱	11/01/23 18:33	500	MZS
2-Butanone (MEK)	2.7	U	6.0	2.7	mg/Kg	✱	11/01/23 18:33	500	MZS
2-Hexanone	1.4	U	6.0	1.4	mg/Kg	✱	11/01/23 18:33	500	MZS
4-Methyl-2-pentanone (MIBK)	1.6	U	6.0	1.6	mg/Kg	✱	11/01/23 18:33	500	MZS
Acetone	5.3	U	6.0	5.3	mg/Kg	✱	11/01/23 18:33	500	MZS
Benzene	200		1.2	0.24	mg/Kg	✱	11/01/23 18:33	500	MZS
Bromoform	0.22	U	1.2	0.22	mg/Kg	✱	11/01/23 18:33	500	MZS
Bromomethane	0.67	U	1.2	0.67	mg/Kg	✱	11/01/23 18:33	500	MZS
Carbon disulfide	0.81	U J	1.2	0.81	mg/Kg	✱	11/01/23 18:33	500	MZS
Carbon tetrachloride	0.40	U	1.2	0.40	mg/Kg	✱	11/01/23 18:33	500	MZS
Chlorobenzene	0.29	U	1.2	0.29	mg/Kg	✱	11/01/23 18:33	500	MZS
Chlorobromomethane	0.36	U	1.2	0.36	mg/Kg	✱	11/01/23 18:33	500	MZS
Chlorodibromomethane	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
Chloroethane	0.45	U	1.2	0.45	mg/Kg	✱	11/01/23 18:33	500	MZS
Chloroform	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
Chloromethane	0.48	U	1.2	0.48	mg/Kg	✱	11/01/23 18:33	500	MZS
cis-1,2-Dichloroethene	0.31	U	1.2	0.31	mg/Kg	✱	11/01/23 18:33	500	MZS
cis-1,3-Dichloropropene	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
Cyclohexane	0.37	J	1.2	0.31	mg/Kg	✱	11/01/23 18:33	500	MZS
Dichlorobromomethane	0.18	U	1.2	0.18	mg/Kg	✱	11/01/23 18:33	500	MZS
Dichlorodifluoromethane	0.37	U J	1.2	0.37	mg/Kg	✱	11/01/23 18:33	500	MZS
Ethylbenzene	220		1.2	0.36	mg/Kg	✱	11/01/23 18:33	500	MZS
Ethylene Dibromide	0.23	U	1.2	0.23	mg/Kg	✱	11/01/23 18:33	500	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(11.5-12.5)

Lab Sample ID: 460-291054-3

Date Collected: 10/24/23 09:02

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Isopropylbenzene	7.4		1.2	0.39	mg/Kg	✱	11/01/23 18:33	500	MZS
Methyl acetate	0.94	U	6.0	0.94	mg/Kg	✱	11/01/23 18:33	500	MZS
Methyl tert-butyl ether	0.26	U	1.2	0.26	mg/Kg	✱	11/01/23 18:33	500	MZS
Methylcyclohexane	1.3		1.2	0.87	mg/Kg	✱	11/01/23 18:33	500	MZS
Methylene Chloride	0.25	U	1.2	0.25	mg/Kg	✱	11/01/23 18:33	500	MZS
m-Xylene & p-Xylene	180		1.2	0.34	mg/Kg	✱	11/01/23 18:33	500	MZS
o-Xylene	80		1.2	0.39	mg/Kg	✱	11/01/23 18:33	500	MZS
Styrene	82		1.2	0.20	mg/Kg	✱	11/01/23 18:33	500	MZS
Tetrachloroethene	0.43	U	1.2	0.43	mg/Kg	✱	11/01/23 18:33	500	MZS
Toluene	230		1.2	0.30	mg/Kg	✱	11/01/23 18:33	500	MZS
trans-1,2-Dichloroethene	0.22	U	1.2	0.22	mg/Kg	✱	11/01/23 18:33	500	MZS
trans-1,3-Dichloropropene	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
Trichloroethene	0.27	U	1.2	0.27	mg/Kg	✱	11/01/23 18:33	500	MZS
Trichlorofluoromethane	0.39	U	1.2	0.39	mg/Kg	✱	11/01/23 18:33	500	MZS
Vinyl chloride	0.24	U	1.2	0.24	mg/Kg	✱	11/01/23 18:33	500	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	63	J N	mg/Kg	✱	11.02	620-14-4	11/01/23 18:33	500	MZS
Benzene, 1,2,4-trimethyl-	70	J N	mg/Kg	✱	11.64	95-63-6	11/01/23 18:33	500	MZS
Benzene, 1-ethenyl-3-methyl-	91	J N	mg/Kg	✱	11.72	100-80-1	11/01/23 18:33	500	MZS
Indane	170	J N	mg/Kg	✱	12.22	496-11-7	11/01/23 18:33	500	MZS
Indene	560	J N	mg/Kg	✱	12.40	95-13-6	11/01/23 18:33	500	MZS
1,4-Dihydronaphthalene	82	J N	mg/Kg	✱	13.24	612-17-9	11/01/23 18:33	500	MZS
Benzene, (1-methyl-2-cyclopropen-1-yl)-	90	J N	mg/Kg	✱	13.29	65051-83-4	11/01/23 18:33	500	MZS
Naphthalene	1500	J N	mg/Kg	✱	13.58	91-20-3	11/01/23 18:33	500	MZS
Naphthalene, 2-methyl-	290	J N	mg/Kg	✱	14.35	91-57-6	11/01/23 18:33	500	MZS
Naphthalene, 1-methyl-	190	J N	mg/Kg	✱	14.50	90-12-0	11/01/23 18:33	500	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	117		68 - 150	11/01/23 18:33	500	MZS
4-Bromofluorobenzene	115		70 - 141	11/01/23 18:33	500	MZS
Dibromofluoromethane (Surr)	110		68 - 142	11/01/23 18:33	500	MZS
Toluene-d8 (Surr)	116		73 - 147	11/01/23 18:33	500	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	62		3.9	0.13	mg/Kg	✱	10/26/23 07:36	10	MME
1,2,4,5-Tetrachlorobenzene	0.12	U	3.9	0.12	mg/Kg	✱	10/26/23 07:36	10	MME
2,2'-oxybis[1-chloropropane]	0.23	U	3.9	0.23	mg/Kg	✱	10/26/23 07:36	10	MME
2,3,4,6-Tetrachlorophenol	0.26	U	3.9	0.26	mg/Kg	✱	10/26/23 07:36	10	MME
2,4,5-Trichlorophenol	0.39	U	3.9	0.39	mg/Kg	✱	10/26/23 07:36	10	MME
2,4,6-Trichlorophenol	0.50	U	1.6	0.50	mg/Kg	✱	10/26/23 07:36	10	MME
2,4-Dichlorophenol	0.25	U	1.6	0.25	mg/Kg	✱	10/26/23 07:36	10	MME
2,4-Dimethylphenol	0.57	J	3.9	0.46	mg/Kg	✱	10/26/23 07:36	10	MME
2,4-Dinitrophenol	1.9	U	3.1	1.9	mg/Kg	✱	10/26/23 07:36	10	MME
2,4-Dinitrotoluene	0.42	U	0.78	0.42	mg/Kg	✱	10/26/23 07:36	10	MME
2,6-Dinitrotoluene	0.28	U	0.78	0.28	mg/Kg	✱	10/26/23 07:36	10	MME
2-Chloronaphthalene	0.18	U	3.9	0.18	mg/Kg	✱	10/26/23 07:36	10	MME
2-Chlorophenol	0.14	U	3.9	0.14	mg/Kg	✱	10/26/23 07:36	10	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(11.5-12.5)

Lab Sample ID: 460-291054-3

Date Collected: 10/24/23 09:02

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 85.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylphenol	0.14	U	3.9	0.14	mg/Kg	☼	10/26/23 07:36	10	MME
2-Nitroaniline	0.29	U	3.9	0.29	mg/Kg	☼	10/26/23 07:36	10	MME
2-Nitrophenol	0.39	U	3.9	0.39	mg/Kg	☼	10/26/23 07:36	10	MME
3,3'-Dichlorobenzidine	0.58	U	1.6	0.58	mg/Kg	☼	10/26/23 07:36	10	MME
3-Nitroaniline	0.92	U	3.9	0.92	mg/Kg	☼	10/26/23 07:36	10	MME
4,6-Dinitro-2-methylphenol	1.6	U	3.1	1.6	mg/Kg	☼	10/26/23 07:36	10	MME
4-Bromophenyl phenyl ether	0.15	U	3.9	0.15	mg/Kg	☼	10/26/23 07:36	10	MME
4-Chloro-3-methylphenol	0.22	U	3.9	0.22	mg/Kg	☼	10/26/23 07:36	10	MME
4-Chloroaniline	0.69	U	3.9	0.69	mg/Kg	☼	10/26/23 07:36	10	MME
4-Chlorophenyl phenyl ether	0.14	U	3.9	0.14	mg/Kg	☼	10/26/23 07:36	10	MME
4-Methylphenol	0.34	J	3.9	0.24	mg/Kg	☼	10/26/23 07:36	10	MME
4-Nitroaniline	0.44	U	3.9	0.44	mg/Kg	☼	10/26/23 07:36	10	MME
4-Nitrophenol	0.63	U	7.8	0.63	mg/Kg	☼	10/26/23 07:36	10	MME
Acetophenone	0.19	U	3.9	0.19	mg/Kg	☼	10/26/23 07:36	10	MME
Atrazine	0.23	U	1.6	0.23	mg/Kg	☼	10/26/23 07:36	10	MME
Benzaldehyde	0.64	U J	3.9	0.64	mg/Kg	☼	10/26/23 07:36	10	MME
Benzo[b]fluoranthene	76		0.39	0.10	mg/Kg	☼	10/26/23 07:36	10	MME
Benzo[g,h,i]perylene	32		3.9	0.11	mg/Kg	☼	10/26/23 07:36	10	MME
Benzo[k]fluoranthene	28		0.39	0.076	mg/Kg	☼	10/26/23 07:36	10	MME
Bis(2-chloroethoxy)methane	0.30	U	3.9	0.30	mg/Kg	☼	10/26/23 07:36	10	MME
Bis(2-chloroethyl)ether	0.13	U	0.39	0.13	mg/Kg	☼	10/26/23 07:36	10	MME
Bis(2-ethylhexyl) phthalate	0.20	U	3.9	0.20	mg/Kg	☼	10/26/23 07:36	10	MME
Butyl benzyl phthalate	0.18	U	3.9	0.18	mg/Kg	☼	10/26/23 07:36	10	MME
Caprolactam	0.60	U	3.9	0.60	mg/Kg	☼	10/26/23 07:36	10	MME
Carbazole	24		3.9	0.15	mg/Kg	☼	10/26/23 07:36	10	MME
Dibenz(a,h)anthracene	9.3		0.39	0.17	mg/Kg	☼	10/26/23 07:36	10	MME
Dibenzofuran	24		3.9	0.13	mg/Kg	☼	10/26/23 07:36	10	MME
Diethyl phthalate	0.12	U	3.9	0.12	mg/Kg	☼	10/26/23 07:36	10	MME
Dimethyl phthalate	0.88	U	3.9	0.88	mg/Kg	☼	10/26/23 07:36	10	MME
Di-n-butyl phthalate	0.15	U	3.9	0.15	mg/Kg	☼	10/26/23 07:36	10	MME
Di-n-octyl phthalate	0.20	U	3.9	0.20	mg/Kg	☼	10/26/23 07:36	10	MME
Hexachlorobenzene	0.18	U	0.39	0.18	mg/Kg	☼	10/26/23 07:36	10	MME
Hexachlorobutadiene	0.082	U	0.78	0.082	mg/Kg	☼	10/26/23 07:36	10	MME
Hexachlorocyclopentadiene	R 0.34	U *	3.9	0.34	mg/Kg	☼	10/26/23 07:36	10	MME
Hexachloroethane	0.13	U	0.39	0.13	mg/Kg	☼	10/26/23 07:36	10	MME
Indeno[1,2,3-cd]pyrene	34		0.39	0.15	mg/Kg	☼	10/26/23 07:36	10	MME
Isophorone	1.1	U	1.6	1.1	mg/Kg	☼	10/26/23 07:36	10	MME
Nitrobenzene	0.21	U	0.39	0.21	mg/Kg	☼	10/26/23 07:36	10	MME
N-Nitrosodi-n-propylamine	0.28	U	0.39	0.28	mg/Kg	☼	10/26/23 07:36	10	MME
N-Nitrosodiphenylamine	0.32	U	3.9	0.32	mg/Kg	☼	10/26/23 07:36	10	MME
Pentachlorophenol	0.79	U	3.1	0.79	mg/Kg	☼	10/26/23 07:36	10	MME
Phenol	0.14	U	3.9	0.14	mg/Kg	☼	10/26/23 07:36	10	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Ethylbenzene	58	J N	mg/Kg	☼	2.61	100-41-4	10/26/23 07:36	10	MME
Unknown	31	J N	mg/Kg	☼	2.89	N/A	10/26/23 07:36	10	MME
Benzene, 1-ethyl-2-methyl-	30	J N	mg/Kg	☼	3.50	611-14-3	10/26/23 07:36	10	MME
Benzene, 2-propenyl-	54	J N	mg/Kg	☼	3.80	300-57-2	10/26/23 07:36	10	MME
Indane	94	J N	mg/Kg	☼	4.14	496-11-7	10/26/23 07:36	10	MME
Indene	110	J N	mg/Kg	☼	4.22	95-13-6	10/26/23 07:36	10	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(11.5-12.5)

Lab Sample ID: 460-291054-3

Date Collected: 10/24/23 09:02

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 85.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
2-Methylindene	54	J N	mg/Kg	⊛	4.97	2177-47-1	10/26/23 07:36	10	MME
Benzene,	51	J N	mg/Kg	⊛	5.00	65051-83-4	10/26/23 07:36	10	MME
(1-methyl-2-cyclopropen-1-yl)-									
2-Benzothiophene #	39	J N	mg/Kg	⊛	5.29	270-82-6	10/26/23 07:36	10	MME
Naphthalene, 1-methyl-	88	J N	mg/Kg	⊛	6.02	90-12-0	10/26/23 07:36	10	MME
Naphthalene, 2-ethyl-	40	J N	mg/Kg	⊛	6.46	939-27-5	10/26/23 07:36	10	MME
Naphthalene, 2,6-dimethyl-	45	J N	mg/Kg	⊛	6.52	581-42-0	10/26/23 07:36	10	MME
Naphthalene, 2,3-dimethyl-	48	J N	mg/Kg	⊛	6.59	581-40-8	10/26/23 07:36	10	MME
Naphthalene, 1,5-dimethyl-	34	J N	mg/Kg	⊛	6.71	571-61-9	10/26/23 07:36	10	MME
Dibenzothiophene	32	J N	mg/Kg	⊛	8.23	132-65-0	10/26/23 07:36	10	MME
Phenanthrene, 2-methyl-	49	J N	mg/Kg	⊛	8.83	2531-84-2	10/26/23 07:36	10	MME
Anthracene, 2-methyl-	50	J N	mg/Kg	⊛	8.86	613-12-7	10/26/23 07:36	10	MME
Anthracene, 1-methyl-	43	J N	mg/Kg	⊛	8.91	610-48-0	10/26/23 07:36	10	MME
Benzaldehyde,	28	J N	mg/Kg	⊛	8.94	90-60-8	10/26/23 07:36	10	MME
3,5-dichloro-2-hydroxy-									
Perylene	53	J N	mg/Kg	⊛	12.59	198-55-0	10/26/23 07:36	10	MME
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	38		24 - 137				10/26/23 07:36	10	MME
2-Fluorobiphenyl	49		48 - 120				10/26/23 07:36	10	MME
2-Fluorophenol (Surr)	37		31 - 120				10/26/23 07:36	10	MME
Nitrobenzene-d5 (Surr)	57		38 - 120				10/26/23 07:36	10	MME
Phenol-d5 (Surr)	42		39 - 120				10/26/23 07:36	10	MME
Terphenyl-d14 (Surr)	62		25 - 126				10/26/23 07:36	10	MME

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	420	D	39	1.1	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Acenaphthene	210	D	39	1.1	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Acenaphthylene	180	D	39	1.1	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Anthracene	570	D	39	1.2	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Benzo[a]anthracene	120	D	3.9	2.9	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Benzo[a]pyrene	100	D	3.9	1.0	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Chrysene	140	D	39	1.6	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Fluoranthene	230	D	39	1.3	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Fluorene	230	D	39	1.1	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Naphthalene	930	D	39	0.67	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Phenanthrene	640	D	39	1.6	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Pyrene	310	D	39	0.96	mg/Kg	⊛	10/26/23 17:07	100	MDJ
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/26/23 17:07	100	MDJ

Client Sample ID: SB-103(15.0-16.0)

Lab Sample ID: 460-291054-4

Date Collected: 10/24/23 09:22

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.029	U	0.10	0.029	mg/Kg	⊛	11/01/23 18:08	50	MZS
1,1,2,2-Tetrachloroethane	0.020	U	0.10	0.020	mg/Kg	⊛	11/01/23 18:08	50	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(15.0-16.0)

Lab Sample ID: 460-291054-4

Date Collected: 10/24/23 09:22

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,2-Trichloro-1,2,2-trifluoroethane	0.035	U	0.10	0.035	mg/Kg	☆	11/01/23 18:08	50	MZS
1,1,2-Trichloroethane	0.021	U	0.10	0.021	mg/Kg	☆	11/01/23 18:08	50	MZS
1,1-Dichloroethane	0.025	U	0.10	0.025	mg/Kg	☆	11/01/23 18:08	50	MZS
1,1-Dichloroethene	0.027	U	0.10	0.027	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2,3-Trichlorobenzene	0.036	U	0.10	0.036	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2,4-Trichlorobenzene	0.028	U	0.10	0.028	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2-Dibromo-3-Chloropropane	0.022	U	0.10	0.022	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2-Dichlorobenzene	0.070	J	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2-Dichloroethane	0.026	U	0.10	0.026	mg/Kg	☆	11/01/23 18:08	50	MZS
1,2-Dichloropropane	0.018	U	0.10	0.018	mg/Kg	☆	11/01/23 18:08	50	MZS
1,3-Dichlorobenzene	0.034	U	0.10	0.034	mg/Kg	☆	11/01/23 18:08	50	MZS
1,4-Dichlorobenzene	0.034	U	0.10	0.034	mg/Kg	☆	11/01/23 18:08	50	MZS
1,4-Dioxane	2.9	U	5.1	2.9	mg/Kg	☆	11/01/23 18:08	50	MZS
2-Butanone (MEK)	0.23	U	0.51	0.23	mg/Kg	☆	11/01/23 18:08	50	MZS
2-Hexanone	0.12	U	0.51	0.12	mg/Kg	☆	11/01/23 18:08	50	MZS
4-Methyl-2-pentanone (MIBK)	0.13	U	0.51	0.13	mg/Kg	☆	11/01/23 18:08	50	MZS
Acetone	0.45	U	0.51	0.45	mg/Kg	☆	11/01/23 18:08	50	MZS
Benzene	9.1		0.10	0.021	mg/Kg	☆	11/01/23 18:08	50	MZS
Bromoform	0.018	U	0.10	0.018	mg/Kg	☆	11/01/23 18:08	50	MZS
Bromomethane	0.057	U	0.10	0.057	mg/Kg	☆	11/01/23 18:08	50	MZS
Carbon disulfide	0.13	J	0.10	0.069	mg/Kg	☆	11/01/23 18:08	50	MZS
Carbon tetrachloride	0.034	U	0.10	0.034	mg/Kg	☆	11/01/23 18:08	50	MZS
Chlorobenzene	0.025	U	0.10	0.025	mg/Kg	☆	11/01/23 18:08	50	MZS
Chlorobromomethane	0.031	U	0.10	0.031	mg/Kg	☆	11/01/23 18:08	50	MZS
Chlorodibromomethane	0.023	U	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
Chloroethane	0.038	U	0.10	0.038	mg/Kg	☆	11/01/23 18:08	50	MZS
Chloroform	0.023	U	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
Chloromethane	0.041	U	0.10	0.041	mg/Kg	☆	11/01/23 18:08	50	MZS
cis-1,2-Dichloroethene	0.027	U	0.10	0.027	mg/Kg	☆	11/01/23 18:08	50	MZS
cis-1,3-Dichloropropene	0.023	U	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
Cyclohexane	0.027	U	0.10	0.027	mg/Kg	☆	11/01/23 18:08	50	MZS
Dichlorobromomethane	0.015	U	0.10	0.015	mg/Kg	☆	11/01/23 18:08	50	MZS
Dichlorodifluoromethane	0.032	U J	0.10	0.032	mg/Kg	☆	11/01/23 18:08	50	MZS
Ethylbenzene	6.6		0.10	0.031	mg/Kg	☆	11/01/23 18:08	50	MZS
Ethylene Dibromide	0.019	U	0.10	0.019	mg/Kg	☆	11/01/23 18:08	50	MZS
Isopropylbenzene	1.2		0.10	0.033	mg/Kg	☆	11/01/23 18:08	50	MZS
Methyl acetate	0.080	U	0.51	0.080	mg/Kg	☆	11/01/23 18:08	50	MZS
Methyl tert-butyl ether	0.022	U	0.10	0.022	mg/Kg	☆	11/01/23 18:08	50	MZS
Methylcyclohexane	0.26		0.10	0.074	mg/Kg	☆	11/01/23 18:08	50	MZS
Methylene Chloride	0.021	U	0.10	0.021	mg/Kg	☆	11/01/23 18:08	50	MZS
m-Xylene & p-Xylene	6.8		0.10	0.029	mg/Kg	☆	11/01/23 18:08	50	MZS
o-Xylene	3.6		0.10	0.033	mg/Kg	☆	11/01/23 18:08	50	MZS
Styrene	6.3		0.10	0.017	mg/Kg	☆	11/01/23 18:08	50	MZS
Tetrachloroethene	0.037	U	0.10	0.037	mg/Kg	☆	11/01/23 18:08	50	MZS
Toluene	10		0.10	0.026	mg/Kg	☆	11/01/23 18:08	50	MZS
trans-1,2-Dichloroethene	0.018	U	0.10	0.018	mg/Kg	☆	11/01/23 18:08	50	MZS
trans-1,3-Dichloropropene	0.023	U	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
Trichloroethene	0.023	U	0.10	0.023	mg/Kg	☆	11/01/23 18:08	50	MZS
Trichlorofluoromethane	0.033	U	0.10	0.033	mg/Kg	☆	11/01/23 18:08	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(15.0-16.0)

Lab Sample ID: 460-291054-4

Date Collected: 10/24/23 09:22

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Vinyl chloride	0.020	U	0.10	0.020	mg/Kg	☼	11/01/23 18:08	50	MZS
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	5.6	J N	mg/Kg	☼	11.64	95-63-6	11/01/23 18:08	50	MZS
Benzene, 1-ethenyl-3-methyl-	3.0	J N	mg/Kg	☼	11.72	100-80-1	11/01/23 18:08	50	MZS
Indane	13	J N	mg/Kg	☼	12.22	496-11-7	11/01/23 18:08	50	MZS
Indene	20	J N	mg/Kg	☼	12.40	95-13-6	11/01/23 18:08	50	MZS
1H-Indene, 2,3-dihydro-4-methyl-	3.4	J N	mg/Kg	☼	13.10	824-22-6	11/01/23 18:08	50	MZS
2-Methylindene	5.6	J N	mg/Kg	☼	13.23	2177-47-1	11/01/23 18:08	50	MZS
Benzene, 1-butylnyl-	6.5	J N	mg/Kg	☼	13.30	622-76-4	11/01/23 18:08	50	MZS
Naphthalene	68	J N	mg/Kg	☼	13.58	91-20-3	11/01/23 18:08	50	MZS
Naphthalene, 2-methyl-	9.4	J N	mg/Kg	☼	14.35	91-57-6	11/01/23 18:08	50	MZS
Naphthalene, 1-methyl-	16	J N	mg/Kg	☼	14.50	90-12-0	11/01/23 18:08	50	MZS
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	126		68 - 150				11/01/23 18:08	50	MZS
4-Bromofluorobenzene	116		70 - 141				11/01/23 18:08	50	MZS
Dibromofluoromethane (Surr)	114		68 - 142				11/01/23 18:08	50	MZS
Toluene-d8 (Surr)	115		73 - 147				11/01/23 18:08	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	3.6		0.40	0.014	mg/Kg	☼	10/26/23 04:59	1	MME
1,2,4,5-Tetrachlorobenzene	0.012	U	0.40	0.012	mg/Kg	☼	10/26/23 04:59	1	MME
2,2'-oxybis[1-chloropropane]	0.024	U	0.40	0.024	mg/Kg	☼	10/26/23 04:59	1	MME
2,3,4,6-Tetrachlorophenol	0.027	U	0.40	0.027	mg/Kg	☼	10/26/23 04:59	1	MME
2,4,5-Trichlorophenol	0.041	U	0.40	0.041	mg/Kg	☼	10/26/23 04:59	1	MME
2,4,6-Trichlorophenol	0.051	U	0.16	0.051	mg/Kg	☼	10/26/23 04:59	1	MME
2,4-Dichlorophenol	0.026	U	0.16	0.026	mg/Kg	☼	10/26/23 04:59	1	MME
2,4-Dimethylphenol	0.14	J	0.40	0.048	mg/Kg	☼	10/26/23 04:59	1	MME
2,4-Dinitrophenol	0.20	U	0.32	0.20	mg/Kg	☼	10/26/23 04:59	1	MME
2,4-Dinitrotoluene	0.043	U	0.081	0.043	mg/Kg	☼	10/26/23 04:59	1	MME
2,6-Dinitrotoluene	0.029	U	0.081	0.029	mg/Kg	☼	10/26/23 04:59	1	MME
2-Chloronaphthalene	0.018	U	0.40	0.018	mg/Kg	☼	10/26/23 04:59	1	MME
2-Chlorophenol	0.014	U	0.40	0.014	mg/Kg	☼	10/26/23 04:59	1	MME
2-Methylnaphthalene	7.7		0.40	0.011	mg/Kg	☼	10/26/23 04:59	1	MME
2-Methylphenol	0.13	J	0.40	0.015	mg/Kg	☼	10/26/23 04:59	1	MME
2-Nitroaniline	0.030	U	0.40	0.030	mg/Kg	☼	10/26/23 04:59	1	MME
2-Nitrophenol	0.040	U	0.40	0.040	mg/Kg	☼	10/26/23 04:59	1	MME
3,3'-Dichlorobenzidine	0.060	U	0.16	0.060	mg/Kg	☼	10/26/23 04:59	1	MME
3-Nitroaniline	0.095	U	0.40	0.095	mg/Kg	☼	10/26/23 04:59	1	MME
4,6-Dinitro-2-methylphenol	0.16	U	0.32	0.16	mg/Kg	☼	10/26/23 04:59	1	MME
4-Bromophenyl phenyl ether	0.016	U	0.40	0.016	mg/Kg	☼	10/26/23 04:59	1	MME
4-Chloro-3-methylphenol	0.022	U	0.40	0.022	mg/Kg	☼	10/26/23 04:59	1	MME
4-Chloroaniline	0.071	U	0.40	0.071	mg/Kg	☼	10/26/23 04:59	1	MME
4-Chlorophenyl phenyl ether	0.014	U	0.40	0.014	mg/Kg	☼	10/26/23 04:59	1	MME
4-Methylphenol	0.32	J	0.40	0.025	mg/Kg	☼	10/26/23 04:59	1	MME
4-Nitroaniline	0.046	U	0.40	0.046	mg/Kg	☼	10/26/23 04:59	1	MME
4-Nitrophenol	0.065	U	0.81	0.065	mg/Kg	☼	10/26/23 04:59	1	MME
Acenaphthylene	6.0		0.40	0.011	mg/Kg	☼	10/26/23 04:59	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(15.0-16.0)

Lab Sample ID: 460-291054-4

Date Collected: 10/24/23 09:22

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acetophenone	0.020	U	0.40	0.020	mg/Kg	☼	10/26/23 04:59	1	MME
Atrazine	0.024	U	0.16	0.024	mg/Kg	☼	10/26/23 04:59	1	MME
Benzaldehyde	0.066	U J	0.40	0.066	mg/Kg	☼	10/26/23 04:59	1	MME
Benzo[a]anthracene	7.1		0.040	0.030	mg/Kg	☼	10/26/23 04:59	1	MME
Benzo[a]pyrene	6.1		0.040	0.011	mg/Kg	☼	10/26/23 04:59	1	MME
Benzo[b]fluoranthene	4.6		0.040	0.010	mg/Kg	☼	10/26/23 04:59	1	MME
Benzo[g,h,i]perylene	2.3		0.40	0.012	mg/Kg	☼	10/26/23 04:59	1	MME
Benzo[k]fluoranthene	1.7		0.040	0.0078	mg/Kg	☼	10/26/23 04:59	1	MME
Bis(2-chloroethoxy)methane	0.031	U	0.40	0.031	mg/Kg	☼	10/26/23 04:59	1	MME
Bis(2-chloroethyl)ether	0.014	U	0.040	0.014	mg/Kg	☼	10/26/23 04:59	1	MME
Bis(2-ethylhexyl) phthalate	0.021	U	0.40	0.021	mg/Kg	☼	10/26/23 04:59	1	MME
Butyl benzyl phthalate	0.019	U	0.40	0.019	mg/Kg	☼	10/26/23 04:59	1	MME
Caprolactam	0.062	U	0.40	0.062	mg/Kg	☼	10/26/23 04:59	1	MME
Carbazole	0.85		0.40	0.015	mg/Kg	☼	10/26/23 04:59	1	MME
Chrysene	6.1		0.40	0.017	mg/Kg	☼	10/26/23 04:59	1	MME
Dibenz(a,h)anthracene	0.67		0.040	0.017	mg/Kg	☼	10/26/23 04:59	1	MME
Dibenzofuran	1.9		0.40	0.013	mg/Kg	☼	10/26/23 04:59	1	MME
Diethyl phthalate	0.013	U	0.40	0.013	mg/Kg	☼	10/26/23 04:59	1	MME
Dimethyl phthalate	0.091	U	0.40	0.091	mg/Kg	☼	10/26/23 04:59	1	MME
Di-n-butyl phthalate	0.015	U	0.40	0.015	mg/Kg	☼	10/26/23 04:59	1	MME
Di-n-octyl phthalate	0.021	U	0.40	0.021	mg/Kg	☼	10/26/23 04:59	1	MME
Hexachlorobenzene	0.019	U	0.040	0.019	mg/Kg	☼	10/26/23 04:59	1	MME
Hexachlorobutadiene	0.0085	U	0.081	0.0085	mg/Kg	☼	10/26/23 04:59	1	MME
Hexachlorocyclopentadiene	R 0.035	U *	0.40	0.035	mg/Kg	☼	10/26/23 04:59	1	MME
Hexachloroethane	0.014	U	0.040	0.014	mg/Kg	☼	10/26/23 04:59	1	MME
Indeno[1,2,3-cd]pyrene	2.5		0.040	0.016	mg/Kg	☼	10/26/23 04:59	1	MME
Isophorone	0.12	U	0.16	0.12	mg/Kg	☼	10/26/23 04:59	1	MME
Nitrobenzene	0.022	U	0.040	0.022	mg/Kg	☼	10/26/23 04:59	1	MME
N-Nitrosodi-n-propylamine	0.029	U	0.040	0.029	mg/Kg	☼	10/26/23 04:59	1	MME
N-Nitrosodiphenylamine	0.033	U	0.40	0.033	mg/Kg	☼	10/26/23 04:59	1	MME
Pentachlorophenol	0.082	U	0.32	0.082	mg/Kg	☼	10/26/23 04:59	1	MME
Phenol	0.34	J	0.40	0.015	mg/Kg	☼	10/26/23 04:59	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Styrene	1.5	J N	mg/Kg	☼	2.90	100-42-5	10/26/23 04:59	1	MME
Benzene, 1,2,3-trimethyl-	2.0	J N	mg/Kg	☼	3.79	526-73-8	10/26/23 04:59	1	MME
Indane	2.3	J N	mg/Kg	☼	4.13	496-11-7	10/26/23 04:59	1	MME
2-Methylindene	2.3	J N	mg/Kg	☼	5.00	2177-47-1	10/26/23 04:59	1	MME
Naphthalene, 1-methyl-	7.0	J N	mg/Kg	☼	6.01	90-12-0	10/26/23 04:59	1	MME
Naphthalene, 2-ethyl-	1.7	J N	mg/Kg	☼	6.45	939-27-5	10/26/23 04:59	1	MME
Naphthalene, 2,6-dimethyl-	3.3	J N	mg/Kg	☼	6.51	581-42-0	10/26/23 04:59	1	MME
Naphthalene, 2,3-dimethyl-	3.9	J N	mg/Kg	☼	6.59	581-40-8	10/26/23 04:59	1	MME
Naphthalene, 1,7-dimethyl-	1.7	J N	mg/Kg	☼	6.61	575-37-1	10/26/23 04:59	1	MME
Naphthalene, 1,4-dimethyl-	2.3	J N	mg/Kg	☼	6.70	571-58-4	10/26/23 04:59	1	MME
Unknown	1.5	J N	mg/Kg	☼	7.40	N/A	10/26/23 04:59	1	MME
9H-Fluorene, 2-methyl-	2.0	J N	mg/Kg	☼	7.96	1430-97-3	10/26/23 04:59	1	MME
Naphtho[2,3-b]thiophene	2.2	J N	mg/Kg	☼	8.23	268-77-9	10/26/23 04:59	1	MME
Phenanthrene, 2-methyl-	3.4	J N	mg/Kg	☼	8.82	2531-84-2	10/26/23 04:59	1	MME
5H-Dibenzo[a,d]cycloheptene	3.8	J N	mg/Kg	☼	8.85	256-81-5	10/26/23 04:59	1	MME
Anthracene, 2-methyl-	2.1	J N	mg/Kg	☼	8.89	613-12-7	10/26/23 04:59	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-103(15.0-16.0)

Lab Sample ID: 460-291054-4

Date Collected: 10/24/23 09:22

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
4H-Cyclopenta[def]phenanthrene	3.0	J N	mg/Kg	☼	8.92	203-64-5	10/26/23 04:59	1	MME
Unknown	1.6	J N	mg/Kg	☼	9.58	N/A	10/26/23 04:59	1	MME
Perylene	3.0	J N	mg/Kg	☼	12.57	198-55-0	10/26/23 04:59	1	MME
Dibenzo[def,mno]chrysene	1.5	J N	mg/Kg	☼	14.77	191-26-4	10/26/23 04:59	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	41		24 - 137	10/26/23 04:59	1	MME
2-Fluorobiphenyl	51		48 - 120	10/26/23 04:59	1	MME
2-Fluorophenol (Surr)	51		31 - 120	10/26/23 04:59	1	MME
Nitrobenzene-d5 (Surr)	55		38 - 120	10/26/23 04:59	1	MME
Phenol-d5 (Surr)	53		39 - 120	10/26/23 04:59	1	MME
Terphenyl-d14 (Surr)	61		25 - 126	10/26/23 04:59	1	MME

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	15	D	2.0	0.057	mg/Kg	☼	10/26/23 07:59	5	MME
Anthracene	16	D	2.0	0.061	mg/Kg	☼	10/26/23 07:59	5	MME
Fluoranthene	13	D	2.0	0.070	mg/Kg	☼	10/26/23 07:59	5	MME
Fluorene	12	D	2.0	0.058	mg/Kg	☼	10/26/23 07:59	5	MME
Naphthalene	25	D	2.0	0.035	mg/Kg	☼	10/26/23 07:59	5	MME
Phenanthrene	35	D	2.0	0.081	mg/Kg	☼	10/26/23 07:59	5	MME
Pyrene	19	D	2.0	0.050	mg/Kg	☼	10/26/23 07:59	5	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/26/23 07:59	5	MME

Client Sample ID: SB-113(7.0-8.0)

Lab Sample ID: 460-291054-5

Date Collected: 10/24/23 10:59

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	11/01/23 13:01	1	EMM
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	11/01/23 13:01	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	11/01/23 13:01	1	EMM
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	11/01/23 13:01	1	EMM
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	11/01/23 13:01	1	EMM
1,1-Dichloroethene	0.0027	J	0.0011	0.00024	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2-Dibromo-3-Chloropropane	0.00050	U	0.0011	0.00050	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	11/01/23 13:01	1	EMM
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	11/01/23 13:01	1	EMM
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	11/01/23 13:01	1	EMM
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	11/01/23 13:01	1	EMM
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	☼	11/01/23 13:01	1	EMM
2-Butanone (MEK)	0.0038	J	0.0054	0.00040	mg/Kg	☼	11/01/23 13:01	1	EMM
2-Hexanone	0.0019	U	0.0054	0.0019	mg/Kg	☼	11/01/23 13:01	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0054	0.0017	mg/Kg	☼	11/01/23 13:01	1	EMM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-113(7.0-8.0)

Lab Sample ID: 460-291054-5

Date Collected: 10/24/23 10:59

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acetone	0.037		0.0065	0.0062	mg/Kg	☼	11/01/23 13:01	1	EMM
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	11/01/23 13:01	1	EMM
Bromoform	0.00046	U J	0.0011	0.00046	mg/Kg	☼	11/01/23 13:01	1	EMM
Bromomethane	0.0011	U J	0.0022	0.0011	mg/Kg	☼	11/01/23 13:01	1	EMM
Carbon disulfide	0.00090	J	0.0011	0.00029	mg/Kg	☼	11/01/23 13:01	1	EMM
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	11/01/23 13:01	1	EMM
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	11/01/23 13:01	1	EMM
Chlorobromomethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	11/01/23 13:01	1	EMM
Chlorodibromomethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	11/01/23 13:01	1	EMM
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	11/01/23 13:01	1	EMM
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	11/01/23 13:01	1	EMM
Chloromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	11/01/23 13:01	1	EMM
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	11/01/23 13:01	1	EMM
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	11/01/23 13:01	1	EMM
Cyclohexane	0.00024	U J	0.0011	0.00024	mg/Kg	☼	11/01/23 13:01	1	EMM
Dichlorobromomethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	11/01/23 13:01	1	EMM
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	11/01/23 13:01	1	EMM
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	11/01/23 13:01	1	EMM
Ethylene Dibromide	0.00020	U	0.0011	0.00020	mg/Kg	☼	11/01/23 13:01	1	EMM
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	11/01/23 13:01	1	EMM
Methyl acetate	0.0047	U J	0.0054	0.0047	mg/Kg	☼	11/01/23 13:01	1	EMM
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	☼	11/01/23 13:01	1	EMM
Methylcyclohexane	0.00054	U J	0.0011	0.00054	mg/Kg	☼	11/01/23 13:01	1	EMM
Methylene Chloride	0.0012	U	0.0022	0.0012	mg/Kg	☼	11/01/23 13:01	1	EMM
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	11/01/23 13:01	1	EMM
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	11/01/23 13:01	1	EMM
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	11/01/23 13:01	1	EMM
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	11/01/23 13:01	1	EMM
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	11/01/23 13:01	1	EMM
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	11/01/23 13:01	1	EMM
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	11/01/23 13:01	1	EMM
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	11/01/23 13:01	1	EMM
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	11/01/23 13:01	1	EMM
Vinyl chloride	0.00059	U	0.0011	0.00059	mg/Kg	☼	11/01/23 13:01	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 13:01	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	95		72 - 138	11/01/23 13:01	1	EMM
4-Bromofluorobenzene	93		63 - 139	11/01/23 13:01	1	EMM
Dibromofluoromethane (Surr)	104		54 - 150	11/01/23 13:01	1	EMM
Toluene-d8 (Surr)	102		71 - 126	11/01/23 13:01	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.014	U	0.40	0.014	mg/Kg	☼	10/25/23 23:33	1	MME
1,2,4,5-Tetrachlorobenzene	0.012	U	0.40	0.012	mg/Kg	☼	10/25/23 23:33	1	MME
2,2'-oxybis[1-chloropropane]	0.024	U	0.40	0.024	mg/Kg	☼	10/25/23 23:33	1	MME
2,3,4,6-Tetrachlorophenol	0.027	U	0.40	0.027	mg/Kg	☼	10/25/23 23:33	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-113(7.0-8.0)

Lab Sample ID: 460-291054-5

Date Collected: 10/24/23 10:59

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4,5-Trichlorophenol	0.041	U	0.40	0.041	mg/Kg	✱	10/25/23 23:33	1	MME
2,4,6-Trichlorophenol	0.051	U	0.16	0.051	mg/Kg	✱	10/25/23 23:33	1	MME
2,4-Dichlorophenol	0.026	U	0.16	0.026	mg/Kg	✱	10/25/23 23:33	1	MME
2,4-Dimethylphenol	0.048	U	0.40	0.048	mg/Kg	✱	10/25/23 23:33	1	MME
2,4-Dinitrophenol	0.20	U	0.32	0.20	mg/Kg	✱	10/25/23 23:33	1	MME
2,4-Dinitrotoluene	0.043	U	0.081	0.043	mg/Kg	✱	10/25/23 23:33	1	MME
2,6-Dinitrotoluene	0.029	U	0.081	0.029	mg/Kg	✱	10/25/23 23:33	1	MME
2-Chloronaphthalene	0.019	U	0.40	0.019	mg/Kg	✱	10/25/23 23:33	1	MME
2-Chlorophenol	0.014	U	0.40	0.014	mg/Kg	✱	10/25/23 23:33	1	MME
2-Methylnaphthalene	0.011	U	0.40	0.011	mg/Kg	✱	10/25/23 23:33	1	MME
2-Methylphenol	0.015	U	0.40	0.015	mg/Kg	✱	10/25/23 23:33	1	MME
2-Nitroaniline	0.031	U	0.40	0.031	mg/Kg	✱	10/25/23 23:33	1	MME
2-Nitrophenol	0.040	U	0.40	0.040	mg/Kg	✱	10/25/23 23:33	1	MME
3,3'-Dichlorobenzidine	0.061	U	0.16	0.061	mg/Kg	✱	10/25/23 23:33	1	MME
3-Nitroaniline	0.095	U	0.40	0.095	mg/Kg	✱	10/25/23 23:33	1	MME
4,6-Dinitro-2-methylphenol	0.16	U	0.32	0.16	mg/Kg	✱	10/25/23 23:33	1	MME
4-Bromophenyl phenyl ether	0.016	U	0.40	0.016	mg/Kg	✱	10/25/23 23:33	1	MME
4-Chloro-3-methylphenol	0.022	U	0.40	0.022	mg/Kg	✱	10/25/23 23:33	1	MME
4-Chloroaniline	0.071	U	0.40	0.071	mg/Kg	✱	10/25/23 23:33	1	MME
4-Chlorophenyl phenyl ether	0.014	U	0.40	0.014	mg/Kg	✱	10/25/23 23:33	1	MME
4-Methylphenol	0.025	U	0.40	0.025	mg/Kg	✱	10/25/23 23:33	1	MME
4-Nitroaniline	0.046	U	0.40	0.046	mg/Kg	✱	10/25/23 23:33	1	MME
4-Nitrophenol	0.065	U	0.81	0.065	mg/Kg	✱	10/25/23 23:33	1	MME
Acenaphthene	0.032	J	0.40	0.011	mg/Kg	✱	10/25/23 23:33	1	MME
Acenaphthylene	0.042	J	0.40	0.011	mg/Kg	✱	10/25/23 23:33	1	MME
Acetophenone	0.020	U	0.40	0.020	mg/Kg	✱	10/25/23 23:33	1	MME
Anthracene	0.021	J	0.40	0.012	mg/Kg	✱	10/25/23 23:33	1	MME
Atrazine	0.024	U	0.16	0.024	mg/Kg	✱	10/25/23 23:33	1	MME
Benzaldehyde	0.066	U J	0.40	0.066	mg/Kg	✱	10/25/23 23:33	1	MME
Benzo[a]anthracene	0.18		0.040	0.030	mg/Kg	✱	10/25/23 23:33	1	MME
Benzo[a]pyrene	0.27		0.040	0.011	mg/Kg	✱	10/25/23 23:33	1	MME
Benzo[b]fluoranthene	0.24		0.040	0.010	mg/Kg	✱	10/25/23 23:33	1	MME
Benzo[g,h,i]perylene	0.12	J	0.40	0.012	mg/Kg	✱	10/25/23 23:33	1	MME
Benzo[k]fluoranthene	0.10		0.040	0.0079	mg/Kg	✱	10/25/23 23:33	1	MME
Bis(2-chloroethoxy)methane	0.031	U	0.40	0.031	mg/Kg	✱	10/25/23 23:33	1	MME
Bis(2-chloroethyl)ether	0.014	U	0.040	0.014	mg/Kg	✱	10/25/23 23:33	1	MME
Bis(2-ethylhexyl) phthalate	0.021	U	0.40	0.021	mg/Kg	✱	10/25/23 23:33	1	MME
Butyl benzyl phthalate	0.019	U	0.40	0.019	mg/Kg	✱	10/25/23 23:33	1	MME
Caprolactam	0.062	U	0.40	0.062	mg/Kg	✱	10/25/23 23:33	1	MME
Carbazole	0.015	U	0.40	0.015	mg/Kg	✱	10/25/23 23:33	1	MME
Chrysene	0.16	J	0.40	0.017	mg/Kg	✱	10/25/23 23:33	1	MME
Dibenz(a,h)anthracene	0.036	J	0.040	0.017	mg/Kg	✱	10/25/23 23:33	1	MME
Dibenzofuran	0.013	U	0.40	0.013	mg/Kg	✱	10/25/23 23:33	1	MME
Diethyl phthalate	0.013	U	0.40	0.013	mg/Kg	✱	10/25/23 23:33	1	MME
Dimethyl phthalate	0.091	U	0.40	0.091	mg/Kg	✱	10/25/23 23:33	1	MME
Di-n-butyl phthalate	0.024	J	0.40	0.015	mg/Kg	✱	10/25/23 23:33	1	MME
Di-n-octyl phthalate	0.021	U	0.40	0.021	mg/Kg	✱	10/25/23 23:33	1	MME
Fluoranthene	0.12	J	0.40	0.014	mg/Kg	✱	10/25/23 23:33	1	MME
Fluorene	0.012	U	0.40	0.012	mg/Kg	✱	10/25/23 23:33	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-113(7.0-8.0)

Lab Sample ID: 460-291054-5

Date Collected: 10/24/23 10:59

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 82.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Hexachlorobenzene	0.019	U	0.040	0.019	mg/Kg	☼	10/25/23 23:33	1	MME
Hexachlorobutadiene	0.0085	U	0.081	0.0085	mg/Kg	☼	10/25/23 23:33	1	MME
Hexachlorocyclopentadiene	~~R 0.035~~	~~U *~~	~~0.40~~	~~0.035~~	~~mg/Kg~~	~~☼~~	~~10/25/23 23:33~~	1	MME
Hexachloroethane	0.014	U	0.040	0.014	mg/Kg	☼	10/25/23 23:33	1	MME
Indeno[1,2,3-cd]pyrene	0.13		0.040	0.016	mg/Kg	☼	10/25/23 23:33	1	MME
Isophorone	0.12	U	0.16	0.12	mg/Kg	☼	10/25/23 23:33	1	MME
Naphthalene	0.0083	J	0.40	0.0069	mg/Kg	☼	10/25/23 23:33	1	MME
Nitrobenzene	0.022	U	0.040	0.022	mg/Kg	☼	10/25/23 23:33	1	MME
N-Nitrosodi-n-propylamine	0.029	U	0.040	0.029	mg/Kg	☼	10/25/23 23:33	1	MME
N-Nitrosodiphenylamine	0.033	U	0.40	0.033	mg/Kg	☼	10/25/23 23:33	1	MME
Pentachlorophenol	0.082	U	0.32	0.082	mg/Kg	☼	10/25/23 23:33	1	MME
Phenanthrene	0.016	J	0.40	0.016	mg/Kg	☼	10/25/23 23:33	1	MME
Phenol	0.015	U	0.40	0.015	mg/Kg	☼	10/25/23 23:33	1	MME
Pyrene	0.23	J	0.40	0.010	mg/Kg	☼	10/25/23 23:33	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/25/23 23:33	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	47		24 - 137	10/25/23 23:33	1	MME
2-Fluorobiphenyl	56		48 - 120	10/25/23 23:33	1	MME
2-Fluorophenol (Surr)	56		31 - 120	10/25/23 23:33	1	MME
Nitrobenzene-d5 (Surr)	61		38 - 120	10/25/23 23:33	1	MME
Phenol-d5 (Surr)	58		39 - 120	10/25/23 23:33	1	MME
Terphenyl-d14 (Surr)	62		25 - 126	10/25/23 23:33	1	MME

Client Sample ID: SB-116(2.0-3.0)

Lab Sample ID: 460-291054-6

Date Collected: 10/23/23 11:17

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00019	U	0.00084	0.00019	mg/Kg	☼	11/01/23 03:11	1	EMM
1,1,2,2-Tetrachloroethane	0.00018	U	0.00084	0.00018	mg/Kg	☼	11/01/23 03:11	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00025	U	0.00084	0.00025	mg/Kg	☼	11/01/23 03:11	1	EMM
1,1,2-Trichloroethane	0.00015	U	0.00084	0.00015	mg/Kg	☼	11/01/23 03:11	1	EMM
1,1-Dichloroethane	0.00017	U	0.00084	0.00017	mg/Kg	☼	11/01/23 03:11	1	EMM
1,1-Dichloroethene	0.0010	J	0.00084	0.00019	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2,3-Trichlorobenzene	0.00015	U J	0.00084	0.00015	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2,4-Trichlorobenzene	0.00030	U J	0.00084	0.00030	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2-Dibromo-3-Chloropropane	0.00038	U	0.00084	0.00038	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2-Dichlorobenzene	0.00030	U	0.00084	0.00030	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2-Dichloroethane	0.00025	U	0.00084	0.00025	mg/Kg	☼	11/01/23 03:11	1	EMM
1,2-Dichloropropane	0.00035	U	0.00084	0.00035	mg/Kg	☼	11/01/23 03:11	1	EMM
1,3-Dichlorobenzene	0.00031	U	0.00084	0.00031	mg/Kg	☼	11/01/23 03:11	1	EMM
1,4-Dichlorobenzene	0.00019	U	0.00084	0.00019	mg/Kg	☼	11/01/23 03:11	1	EMM
1,4-Dioxane	0.0077	U	0.084	0.0077	mg/Kg	☼	11/01/23 03:11	1	EMM
2-Butanone (MEK)	0.00031	U	0.0042	0.00031	mg/Kg	☼	11/01/23 03:11	1	EMM
2-Hexanone	0.0014	U	0.0042	0.0014	mg/Kg	☼	11/01/23 03:11	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0042	0.0013	mg/Kg	☼	11/01/23 03:11	1	EMM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-116(2.0-3.0)

Lab Sample ID: 460-291054-6

Date Collected: 10/23/23 11:17

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acetone	0.012		0.0050	0.0048	mg/Kg	☼	11/01/23 03:11	1	EMM
Benzene	0.00022	U	0.00084	0.00022	mg/Kg	☼	11/01/23 03:11	1	EMM
Bromoform	0.00036	U J	0.00084	0.00036	mg/Kg	☼	11/01/23 03:11	1	EMM
Bromomethane	0.00084	U J	0.0017	0.00084	mg/Kg	☼	11/01/23 03:11	1	EMM
Carbon disulfide	0.0031	J	0.00084	0.00022	mg/Kg	☼	11/01/23 03:11	1	EMM
Carbon tetrachloride	0.00032	U	0.00084	0.00032	mg/Kg	☼	11/01/23 03:11	1	EMM
Chlorobenzene	0.00015	U	0.00084	0.00015	mg/Kg	☼	11/01/23 03:11	1	EMM
Chlorobromomethane	0.00024	U	0.00084	0.00024	mg/Kg	☼	11/01/23 03:11	1	EMM
Chlorodibromomethane	0.00016	U J	0.00084	0.00016	mg/Kg	☼	11/01/23 03:11	1	EMM
Chloroethane	0.00044	U J	0.00084	0.00044	mg/Kg	☼	11/01/23 03:11	1	EMM
Chloroform	0.00081	U	0.00084	0.00081	mg/Kg	☼	11/01/23 03:11	1	EMM
Chloromethane	0.00036	U	0.00084	0.00036	mg/Kg	☼	11/01/23 03:11	1	EMM
cis-1,2-Dichloroethene	0.00030	U	0.00084	0.00030	mg/Kg	☼	11/01/23 03:11	1	EMM
cis-1,3-Dichloropropene	0.00023	U	0.00084	0.00023	mg/Kg	☼	11/01/23 03:11	1	EMM
Cyclohexane	0.00018	U J	0.00084	0.00018	mg/Kg	☼	11/01/23 03:11	1	EMM
Dichlorobromomethane	0.00021	U	0.00084	0.00021	mg/Kg	☼	11/01/23 03:11	1	EMM
Dichlorodifluoromethane	0.00028	U	0.00084	0.00028	mg/Kg	☼	11/01/23 03:11	1	EMM
Ethylbenzene	0.00017	U	0.00084	0.00017	mg/Kg	☼	11/01/23 03:11	1	EMM
Ethylene Dibromide	0.00015	U	0.00084	0.00015	mg/Kg	☼	11/01/23 03:11	1	EMM
Isopropylbenzene	0.00024	U	0.00084	0.00024	mg/Kg	☼	11/01/23 03:11	1	EMM
Methyl acetate	0.0036	U	0.0042	0.0036	mg/Kg	☼	11/01/23 03:11	1	EMM
Methyl tert-butyl ether	0.00043	U	0.00084	0.00043	mg/Kg	☼	11/01/23 03:11	1	EMM
Methylcyclohexane	0.00042	U J	0.00084	0.00042	mg/Kg	☼	11/01/23 03:11	1	EMM
Methylene Chloride	0.00096	U	0.0017	0.00096	mg/Kg	☼	11/01/23 03:11	1	EMM
m-Xylene & p-Xylene	0.00015	U	0.00084	0.00015	mg/Kg	☼	11/01/23 03:11	1	EMM
o-Xylene	0.00016	U	0.00084	0.00016	mg/Kg	☼	11/01/23 03:11	1	EMM
Styrene	0.00023	U	0.00084	0.00023	mg/Kg	☼	11/01/23 03:11	1	EMM
Tetrachloroethene	0.00026	U J	0.00084	0.00026	mg/Kg	☼	11/01/23 03:11	1	EMM
Toluene	0.00020	U	0.00084	0.00020	mg/Kg	☼	11/01/23 03:11	1	EMM
trans-1,2-Dichloroethene	0.00021	U	0.00084	0.00021	mg/Kg	☼	11/01/23 03:11	1	EMM
trans-1,3-Dichloropropene	0.00022	U	0.00084	0.00022	mg/Kg	☼	11/01/23 03:11	1	EMM
Trichloroethene	0.00027	U	0.00084	0.00027	mg/Kg	☼	11/01/23 03:11	1	EMM
Trichlorofluoromethane	0.00034	U	0.00084	0.00034	mg/Kg	☼	11/01/23 03:11	1	EMM
Vinyl chloride	0.00046	U	0.00084	0.00046	mg/Kg	☼	11/01/23 03:11	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Undecane, 2,6-dimethyl-	0.038	J N	mg/Kg	☼	14.32	17301-23-4	11/01/23 03:11	1	EMM
Unknown	0.072	J N	mg/Kg	☼	14.65	N/A	11/01/23 03:11	1	EMM
Unknown	0.048	J N	mg/Kg	☼	14.87	N/A	11/01/23 03:11	1	EMM
Naphthalene,	0.045	J N	mg/Kg	☼	15.14	4175-54-6	11/01/23 03:11	1	EMM
1,2,3,4-tetrahydro-1,4-dimethyl-									
Dodecane, 2,6,11-trimethyl-	0.12	J N	mg/Kg	☼	15.16	31295-56-4	11/01/23 03:11	1	EMM
Unknown	0.060	J N	mg/Kg	☼	15.30	N/A	11/01/23 03:11	1	EMM
Decahydro-4,4,8,9,10-pentamethylna	0.050	J N	mg/Kg	☼	15.40	80655-44-3	11/01/23 03:11	1	EMM
phthalene									
1H-Indene,	0.057	J N	mg/Kg	☼	15.58	6682-06-0	11/01/23 03:11	1	EMM
2,3-dihydro-4,5,7-trimethyl-									
Unknown	0.040	J N	mg/Kg	☼	15.63	N/A	11/01/23 03:11	1	EMM
Unknown	0.069	J N	mg/Kg	☼	15.76	N/A	11/01/23 03:11	1	EMM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-116(2.0-3.0)

Lab Sample ID: 460-291054-6

Date Collected: 10/23/23 11:17

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 92.1

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		72 - 138	11/01/23 03:11	1	EMM
4-Bromofluorobenzene	90		63 - 139	11/01/23 03:11	1	EMM
Dibromofluoromethane (Surr)	105		54 - 150	11/01/23 03:11	1	EMM
Toluene-d8 (Surr)	102		71 - 126	11/01/23 03:11	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.36	0.012	mg/Kg	☆	10/25/23 22:48	1	MME
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☆	10/25/23 22:48	1	MME
2,2'-oxybis[1-chloropropane]	0.021	U	0.36	0.021	mg/Kg	☆	10/25/23 22:48	1	MME
2,3,4,6-Tetrachlorophenol	0.024	U	0.36	0.024	mg/Kg	☆	10/25/23 22:48	1	MME
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☆	10/25/23 22:48	1	MME
2,4,6-Trichlorophenol	0.046	U	0.14	0.046	mg/Kg	☆	10/25/23 22:48	1	MME
2,4-Dichlorophenol	0.023	U	0.14	0.023	mg/Kg	☆	10/25/23 22:48	1	MME
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	☆	10/25/23 22:48	1	MME
2,4-Dinitrophenol	0.18	U	0.29	0.18	mg/Kg	☆	10/25/23 22:48	1	MME
2,4-Dinitrotoluene	0.039	U	0.073	0.039	mg/Kg	☆	10/25/23 22:48	1	MME
2,6-Dinitrotoluene	0.026	U	0.073	0.026	mg/Kg	☆	10/25/23 22:48	1	MME
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☆	10/25/23 22:48	1	MME
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☆	10/25/23 22:48	1	MME
2-Methylnaphthalene	0.053	J	0.36	0.010	mg/Kg	☆	10/25/23 22:48	1	MME
2-Methylphenol	0.013	U	0.36	0.013	mg/Kg	☆	10/25/23 22:48	1	MME
2-Nitroaniline	0.027	U	0.36	0.027	mg/Kg	☆	10/25/23 22:48	1	MME
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	☆	10/25/23 22:48	1	MME
3,3'-Dichlorobenzidine	0.054	U	0.14	0.054	mg/Kg	☆	10/25/23 22:48	1	MME
3-Nitroaniline	0.085	U	0.36	0.085	mg/Kg	☆	10/25/23 22:48	1	MME
4,6-Dinitro-2-methylphenol	0.15	U	0.29	0.15	mg/Kg	☆	10/25/23 22:48	1	MME
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☆	10/25/23 22:48	1	MME
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☆	10/25/23 22:48	1	MME
4-Chloroaniline	0.064	U	0.36	0.064	mg/Kg	☆	10/25/23 22:48	1	MME
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☆	10/25/23 22:48	1	MME
4-Methylphenol	0.022	U	0.36	0.022	mg/Kg	☆	10/25/23 22:48	1	MME
4-Nitroaniline	0.041	U	0.36	0.041	mg/Kg	☆	10/25/23 22:48	1	MME
4-Nitrophenol	0.058	U	0.73	0.058	mg/Kg	☆	10/25/23 22:48	1	MME
Acenaphthene	0.030	J	0.36	0.010	mg/Kg	☆	10/25/23 22:48	1	MME
Acenaphthylene	0.018	J	0.36	0.010	mg/Kg	☆	10/25/23 22:48	1	MME
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☆	10/25/23 22:48	1	MME
Anthracene	0.035	J	0.36	0.011	mg/Kg	☆	10/25/23 22:48	1	MME
Atrazine	0.021	U	0.14	0.021	mg/Kg	☆	10/25/23 22:48	1	MME
Benzaldehyde	0.059	U J	0.36	0.059	mg/Kg	☆	10/25/23 22:48	1	MME
Benzo[a]anthracene	0.027	U	0.036	0.027	mg/Kg	☆	10/25/23 22:48	1	MME
Benzo[a]pyrene	0.0096	U	0.036	0.0096	mg/Kg	☆	10/25/23 22:48	1	MME
Benzo[b]fluoranthene	0.0093	U	0.036	0.0093	mg/Kg	☆	10/25/23 22:48	1	MME
Benzo[g,h,i]perylene	0.011	U	0.36	0.011	mg/Kg	☆	10/25/23 22:48	1	MME
Benzo[k]fluoranthene	0.0070	U	0.036	0.0070	mg/Kg	☆	10/25/23 22:48	1	MME
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☆	10/25/23 22:48	1	MME
Bis(2-chloroethyl)ether	0.012	U	0.036	0.012	mg/Kg	☆	10/25/23 22:48	1	MME
Bis(2-ethylhexyl) phthalate	0.18	J	0.36	0.019	mg/Kg	☆	10/25/23 22:48	1	MME
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☆	10/25/23 22:48	1	MME
Caprolactam	0.056	U	0.36	0.056	mg/Kg	☆	10/25/23 22:48	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-116(2.0-3.0)

Lab Sample ID: 460-291054-6

Date Collected: 10/23/23 11:17

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 92.1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Carbazole	0.014	U	0.36	0.014	mg/Kg	☼	10/25/23 22:48	1	MME
Chrysene	0.015	U	0.36	0.015	mg/Kg	☼	10/25/23 22:48	1	MME
Dibenz(a,h)anthracene	0.016	U	0.036	0.016	mg/Kg	☼	10/25/23 22:48	1	MME
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	10/25/23 22:48	1	MME
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	10/25/23 22:48	1	MME
Dimethyl phthalate	0.081	U	0.36	0.081	mg/Kg	☼	10/25/23 22:48	1	MME
Di-n-butyl phthalate	0.026	J	0.36	0.014	mg/Kg	☼	10/25/23 22:48	1	MME
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	10/25/23 22:48	1	MME
Fluoranthene	0.013	U	0.36	0.013	mg/Kg	☼	10/25/23 22:48	1	MME
Fluorene	0.083	J	0.36	0.010	mg/Kg	☼	10/25/23 22:48	1	MME
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	10/25/23 22:48	1	MME
Hexachlorobutadiene	0.0076	U	0.073	0.0076	mg/Kg	☼	10/25/23 22:48	1	MME
Hexachlorocyclopentadiene	~~0.031~~	~~U~~	~~0.36~~	~~0.031~~	~~mg/Kg~~	~~☼~~	~~10/25/23 22:48~~	1	MME
Hexachloroethane	0.012	U	0.036	0.012	mg/Kg	☼	10/25/23 22:48	1	MME
Indeno[1,2,3-cd]pyrene	0.014	U	0.036	0.014	mg/Kg	☼	10/25/23 22:48	1	MME
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/25/23 22:48	1	MME
Naphthalene	0.0062	U	0.36	0.0062	mg/Kg	☼	10/25/23 22:48	1	MME
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	10/25/23 22:48	1	MME
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	10/25/23 22:48	1	MME
N-Nitrosodiphenylamine	0.029	U	0.36	0.029	mg/Kg	☼	10/25/23 22:48	1	MME
Pentachlorophenol	0.074	U	0.29	0.074	mg/Kg	☼	10/25/23 22:48	1	MME
Phenanthrene	0.14	J	0.36	0.015	mg/Kg	☼	10/25/23 22:48	1	MME
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	10/25/23 22:48	1	MME
Pyrene	0.039	J	0.36	0.0089	mg/Kg	☼	10/25/23 22:48	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	~~0.58~~	~~J A~~	~~mg/Kg~~	~~☼~~	~~2.42~~	~~N/A~~	~~10/25/23 22:48~~	1	MME
Undecane, 2,6-dimethyl-	0.37	J N	mg/Kg	☼	5.30	17301-23-4	10/25/23 22:48	1	MME
Unknown	0.73	J N	mg/Kg	☼	5.65	N/A	10/25/23 22:48	1	MME
Dodecane, 2,6,11-trimethyl-	0.90	J N	mg/Kg	☼	6.24	31295-56-4	10/25/23 22:48	1	MME
Naphthalene, 1,3-dimethyl-	0.34	J N	mg/Kg	☼	6.51	575-41-7	10/25/23 22:48	1	MME
Tetradecane	1.0	J N	mg/Kg	☼	6.68	629-59-4	10/25/23 22:48	1	MME
Naphthalene, 2,3,6-trimethyl-	0.41	J N	mg/Kg	☼	7.02	829-26-5	10/25/23 22:48	1	MME
Unknown	0.40	J N	mg/Kg	☼	7.10	N/A	10/25/23 22:48	1	MME
Naphthalene, 1,6,7-trimethyl-	0.61	J N	mg/Kg	☼	7.14	2245-38-7	10/25/23 22:48	1	MME
Naphthalene, 1,4,6-trimethyl-	0.31	J N	mg/Kg	☼	7.29	2131-42-2	10/25/23 22:48	1	MME
Naphthalene, 2-methyl-1-propyl-	0.38	J N	mg/Kg	☼	7.46	54774-89-9	10/25/23 22:48	1	MME
Pentadecane, 2,6,10-trimethyl-	1.0	J N	mg/Kg	☼	7.58	3892-00-0	10/25/23 22:48	1	MME
Tridecane, 5-propyl-	1.3	J N	mg/Kg	☼	7.83	55045-11-9	10/25/23 22:48	1	MME
Hexadecane	0.67	J N	mg/Kg	☼	8.28	544-76-3	10/25/23 22:48	1	MME
9-Octadecenamide, (Z)-	0.33	J N	mg/Kg	☼	10.37	301-02-0	10/25/23 22:48	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	50		24 - 137	10/25/23 22:48	1	MME
2-Fluorobiphenyl	64		48 - 120	10/25/23 22:48	1	MME
2-Fluorophenol (Surr)	62		31 - 120	10/25/23 22:48	1	MME
Nitrobenzene-d5 (Surr)	68		38 - 120	10/25/23 22:48	1	MME
Phenol-d5 (Surr)	66		39 - 120	10/25/23 22:48	1	MME
Terphenyl-d14 (Surr)	72		25 - 126	10/25/23 22:48	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-118(1.0-2.0)

Lab Sample ID: 460-291054-7

Date Collected: 10/23/23 14:38

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00086	0.00020	mg/Kg	☆	11/01/23 12:36	1	EMM
1,1,2,2-Tetrachloroethane	0.00018	U	0.00086	0.00018	mg/Kg	☆	11/01/23 12:36	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00086	0.00026	mg/Kg	☆	11/01/23 12:36	1	EMM
1,1,2-Trichloroethane	0.00015	U	0.00086	0.00015	mg/Kg	☆	11/01/23 12:36	1	EMM
1,1-Dichloroethane	0.00018	U	0.00086	0.00018	mg/Kg	☆	11/01/23 12:36	1	EMM
1,1-Dichloroethene	0.00068	J	0.00086	0.00019	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2,3-Trichlorobenzene	0.00016	U	0.00086	0.00016	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2,4-Trichlorobenzene	0.00031	U	0.00086	0.00031	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2-Dibromo-3-Chloropropane	0.00040	U	0.00086	0.00040	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2-Dichlorobenzene	0.00031	U	0.00086	0.00031	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2-Dichloroethane	0.00025	U	0.00086	0.00025	mg/Kg	☆	11/01/23 12:36	1	EMM
1,2-Dichloropropane	0.00036	U	0.00086	0.00036	mg/Kg	☆	11/01/23 12:36	1	EMM
1,3-Dichlorobenzene	0.00031	U	0.00086	0.00031	mg/Kg	☆	11/01/23 12:36	1	EMM
1,4-Dichlorobenzene	0.00019	U	0.00086	0.00019	mg/Kg	☆	11/01/23 12:36	1	EMM
1,4-Dioxane	0.0079	U	0.086	0.0079	mg/Kg	☆	11/01/23 12:36	1	EMM
2-Butanone (MEK)	0.00032	U	0.0043	0.00032	mg/Kg	☆	11/01/23 12:36	1	EMM
2-Hexanone	0.0015	U	0.0043	0.0015	mg/Kg	☆	11/01/23 12:36	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0043	0.0013	mg/Kg	☆	11/01/23 12:36	1	EMM
Acetone	0.0049	U	0.0052	0.0049	mg/Kg	☆	11/01/23 12:36	1	EMM
Benzene	0.00022	U	0.00086	0.00022	mg/Kg	☆	11/01/23 12:36	1	EMM
Bromoform	0.00037	U J	0.00086	0.00037	mg/Kg	☆	11/01/23 12:36	1	EMM
Bromomethane	0.00086	U J	0.0017	0.00086	mg/Kg	☆	11/01/23 12:36	1	EMM
Carbon disulfide	0.00023	U J	0.00086	0.00023	mg/Kg	☆	11/01/23 12:36	1	EMM
Carbon tetrachloride	0.00033	U	0.00086	0.00033	mg/Kg	☆	11/01/23 12:36	1	EMM
Chlorobenzene	0.00015	U	0.00086	0.00015	mg/Kg	☆	11/01/23 12:36	1	EMM
Chlorobromomethane	0.00024	U	0.00086	0.00024	mg/Kg	☆	11/01/23 12:36	1	EMM
Chlorodibromomethane	0.00017	U	0.00086	0.00017	mg/Kg	☆	11/01/23 12:36	1	EMM
Chloroethane	0.00045	U	0.00086	0.00045	mg/Kg	☆	11/01/23 12:36	1	EMM
Chloroform	0.00084	U	0.00086	0.00084	mg/Kg	☆	11/01/23 12:36	1	EMM
Chloromethane	0.00037	U	0.00086	0.00037	mg/Kg	☆	11/01/23 12:36	1	EMM
cis-1,2-Dichloroethene	0.00031	U	0.00086	0.00031	mg/Kg	☆	11/01/23 12:36	1	EMM
cis-1,3-Dichloropropene	0.00023	U	0.00086	0.00023	mg/Kg	☆	11/01/23 12:36	1	EMM
Cyclohexane	0.00019	U J	0.00086	0.00019	mg/Kg	☆	11/01/23 12:36	1	EMM
Dichlorobromomethane	0.00022	U	0.00086	0.00022	mg/Kg	☆	11/01/23 12:36	1	EMM
Dichlorodifluoromethane	0.00029	U	0.00086	0.00029	mg/Kg	☆	11/01/23 12:36	1	EMM
Ethylbenzene	0.00017	U	0.00086	0.00017	mg/Kg	☆	11/01/23 12:36	1	EMM
Ethylene Dibromide	0.00015	U	0.00086	0.00015	mg/Kg	☆	11/01/23 12:36	1	EMM
Isopropylbenzene	0.00025	U	0.00086	0.00025	mg/Kg	☆	11/01/23 12:36	1	EMM
Methyl acetate	0.0037	U J	0.0043	0.0037	mg/Kg	☆	11/01/23 12:36	1	EMM
Methyl tert-butyl ether	0.00044	U	0.00086	0.00044	mg/Kg	☆	11/01/23 12:36	1	EMM
Methylcyclohexane	0.00043	U J	0.00086	0.00043	mg/Kg	☆	11/01/23 12:36	1	EMM
Methylene Chloride	0.00099	U	0.0017	0.00099	mg/Kg	☆	11/01/23 12:36	1	EMM
m-Xylene & p-Xylene	0.00015	U	0.00086	0.00015	mg/Kg	☆	11/01/23 12:36	1	EMM
o-Xylene	0.00017	U	0.00086	0.00017	mg/Kg	☆	11/01/23 12:36	1	EMM
Styrene	0.00024	U	0.00086	0.00024	mg/Kg	☆	11/01/23 12:36	1	EMM
Tetrachloroethene	0.00026	U	0.00086	0.00026	mg/Kg	☆	11/01/23 12:36	1	EMM
Toluene	0.00020	U	0.00086	0.00020	mg/Kg	☆	11/01/23 12:36	1	EMM
trans-1,2-Dichloroethene	0.00021	U	0.00086	0.00021	mg/Kg	☆	11/01/23 12:36	1	EMM
trans-1,3-Dichloropropene	0.00023	U	0.00086	0.00023	mg/Kg	☆	11/01/23 12:36	1	EMM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-118(1.0-2.0)

Lab Sample ID: 460-291054-7

Date Collected: 10/23/23 14:38

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00028	U	0.00086	0.00028	mg/Kg	☼	11/01/23 12:36	1	EMM
Trichlorofluoromethane	0.00035	U	0.00086	0.00035	mg/Kg	☼	11/01/23 12:36	1	EMM
Vinyl chloride	0.00047	U	0.00086	0.00047	mg/Kg	☼	11/01/23 12:36	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 12:36	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	97		72 - 138	11/01/23 12:36	1	EMM
4-Bromofluorobenzene	89		63 - 139	11/01/23 12:36	1	EMM
Dibromofluoromethane (Surr)	104		54 - 150	11/01/23 12:36	1	EMM
Toluene-d8 (Surr)	100		71 - 126	11/01/23 12:36	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/26/23 02:34	1	MME
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	10/26/23 02:34	1	MME
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	10/26/23 02:34	1	MME
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☼	10/26/23 02:34	1	MME
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	10/26/23 02:34	1	MME
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/26/23 02:34	1	MME
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☼	10/26/23 02:34	1	MME
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	10/26/23 02:34	1	MME
2,4-Dinitrotoluene	0.038	U	0.071	0.038	mg/Kg	☼	10/26/23 02:34	1	MME
2,6-Dinitrotoluene	0.025	U	0.071	0.025	mg/Kg	☼	10/26/23 02:34	1	MME
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	10/26/23 02:34	1	MME
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
2-Methylnaphthalene	0.0098	U	0.35	0.0098	mg/Kg	☼	10/26/23 02:34	1	MME
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	10/26/23 02:34	1	MME
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☼	10/26/23 02:34	1	MME
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	10/26/23 02:34	1	MME
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☼	10/26/23 02:34	1	MME
3-Nitroaniline	0.083	U	0.35	0.083	mg/Kg	☼	10/26/23 02:34	1	MME
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	10/26/23 02:34	1	MME
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	10/26/23 02:34	1	MME
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	10/26/23 02:34	1	MME
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	10/26/23 02:34	1	MME
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	10/26/23 02:34	1	MME
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	10/26/23 02:34	1	MME
4-Nitrophenol	0.057	U	0.71	0.057	mg/Kg	☼	10/26/23 02:34	1	MME
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	10/26/23 02:34	1	MME
Acenaphthylene	0.013	J	0.35	0.010	mg/Kg	☼	10/26/23 02:34	1	MME
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	10/26/23 02:34	1	MME
Anthracene	0.012	J	0.35	0.011	mg/Kg	☼	10/26/23 02:34	1	MME
Atrazine	0.021	U	0.14	0.021	mg/Kg	☼	10/26/23 02:34	1	MME
Benzaldehyde	0.058	U J	0.35	0.058	mg/Kg	☼	10/26/23 02:34	1	MME
Benzo[a]anthracene	0.12		0.035	0.026	mg/Kg	☼	10/26/23 02:34	1	MME
Benzo[a]pyrene	0.14		0.035	0.0093	mg/Kg	☼	10/26/23 02:34	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-118(1.0-2.0)

Lab Sample ID: 460-291054-7

Date Collected: 10/23/23 14:38

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 94.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.17		0.035	0.0090	mg/Kg	☼	10/26/23 02:34	1	MME
Benzo[g,h,i]perylene	0.071	J	0.35	0.010	mg/Kg	☼	10/26/23 02:34	1	MME
Benzo[k]fluoranthene	0.063		0.035	0.0068	mg/Kg	☼	10/26/23 02:34	1	MME
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	10/26/23 02:34	1	MME
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☼	10/26/23 02:34	1	MME
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	10/26/23 02:34	1	MME
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	10/26/23 02:34	1	MME
Carbazole	0.013	U	0.35	0.013	mg/Kg	☼	10/26/23 02:34	1	MME
Chrysene	0.13	J	0.35	0.015	mg/Kg	☼	10/26/23 02:34	1	MME
Dibenz(a,h)anthracene	0.023	J	0.035	0.015	mg/Kg	☼	10/26/23 02:34	1	MME
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	10/26/23 02:34	1	MME
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	10/26/23 02:34	1	MME
Di-n-butyl phthalate	0.049	J	0.35	0.013	mg/Kg	☼	10/26/23 02:34	1	MME
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	10/26/23 02:34	1	MME
Fluoranthene	0.22	J	0.35	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
Fluorene	0.010	U	0.35	0.010	mg/Kg	☼	10/26/23 02:34	1	MME
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	10/26/23 02:34	1	MME
Hexachlorobutadiene	0.0074	U	0.071	0.0074	mg/Kg	☼	10/26/23 02:34	1	MME
Hexachlorocyclopentadiene	R 0.031	U +	0.35	0.031	mg/Kg	☼	10/26/23 02:34	1	MME
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	10/26/23 02:34	1	MME
Indeno[1,2,3-cd]pyrene	0.095		0.035	0.014	mg/Kg	☼	10/26/23 02:34	1	MME
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/26/23 02:34	1	MME
Naphthalene	0.014	J	0.35	0.0060	mg/Kg	☼	10/26/23 02:34	1	MME
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	10/26/23 02:34	1	MME
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	10/26/23 02:34	1	MME
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	10/26/23 02:34	1	MME
Pentachlorophenol	0.072	U	0.28	0.072	mg/Kg	☼	10/26/23 02:34	1	MME
Phenanthrene	0.11	J	0.35	0.014	mg/Kg	☼	10/26/23 02:34	1	MME
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	10/26/23 02:34	1	MME
Pyrene	0.25	J	0.35	0.0087	mg/Kg	☼	10/26/23 02:34	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	R -0.32	J A	mg/Kg	☼	2.42	N/A	10/26/23 02:34	1	MME
Unknown	0.53	J N	mg/Kg	☼	9.33	N/A	10/26/23 02:34	1	MME
Unknown	2.5	J N	mg/Kg	☼	10.57	N/A	10/26/23 02:34	1	MME
Unknown	1.1	J N	mg/Kg	☼	11.37	N/A	10/26/23 02:34	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	41		24 - 137	10/26/23 02:34	1	MME
2-Fluorobiphenyl	51		48 - 120	10/26/23 02:34	1	MME
2-Fluorophenol (Surr)	49		31 - 120	10/26/23 02:34	1	MME
Nitrobenzene-d5 (Surr)	55		38 - 120	10/26/23 02:34	1	MME
Phenol-d5 (Surr)	51		39 - 120	10/26/23 02:34	1	MME
Terphenyl-d14 (Surr)	59		25 - 126	10/26/23 02:34	1	MME

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-114(1.0-1.5)

Lab Sample ID: 460-291054-8

Date Collected: 10/23/23 11:31

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00088	0.00021	mg/Kg	✱	11/01/23 12:12	1	EMM
1,1,2,2-Tetrachloroethane	0.00019	U	0.00088	0.00019	mg/Kg	✱	11/01/23 12:12	1	EMM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00088	0.00027	mg/Kg	✱	11/01/23 12:12	1	EMM
1,1,2-Trichloroethane	0.00016	U	0.00088	0.00016	mg/Kg	✱	11/01/23 12:12	1	EMM
1,1-Dichloroethane	0.00018	U	0.00088	0.00018	mg/Kg	✱	11/01/23 12:12	1	EMM
1,1-Dichloroethene	0.00020	U J	0.00088	0.00020	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2,3-Trichlorobenzene	0.00016	U	0.00088	0.00016	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2,4-Trichlorobenzene	0.00032	U	0.00088	0.00032	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2-Dibromo-3-Chloropropane	0.00041	U	0.00088	0.00041	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2-Dichlorobenzene	0.00032	U	0.00088	0.00032	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2-Dichloroethane	0.00026	U	0.00088	0.00026	mg/Kg	✱	11/01/23 12:12	1	EMM
1,2-Dichloropropane	0.00037	U	0.00088	0.00037	mg/Kg	✱	11/01/23 12:12	1	EMM
1,3-Dichlorobenzene	0.00032	U	0.00088	0.00032	mg/Kg	✱	11/01/23 12:12	1	EMM
1,4-Dichlorobenzene	0.00020	U	0.00088	0.00020	mg/Kg	✱	11/01/23 12:12	1	EMM
1,4-Dioxane	0.0081	U	0.088	0.0081	mg/Kg	✱	11/01/23 12:12	1	EMM
2-Butanone (MEK)	0.0059		0.0044	0.00033	mg/Kg	✱	11/01/23 12:12	1	EMM
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	✱	11/01/23 12:12	1	EMM
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	✱	11/01/23 12:12	1	EMM
Acetone	0.026		0.0053	0.0051	mg/Kg	✱	11/01/23 12:12	1	EMM
Benzene	0.00023	J	0.00088	0.00023	mg/Kg	✱	11/01/23 12:12	1	EMM
Bromoform	0.00038	U J	0.00088	0.00038	mg/Kg	✱	11/01/23 12:12	1	EMM
Bromomethane	0.00088	U J	0.0018	0.00088	mg/Kg	✱	11/01/23 12:12	1	EMM
Carbon disulfide	0.0044	J	0.00088	0.00024	mg/Kg	✱	11/01/23 12:12	1	EMM
Carbon tetrachloride	0.00034	U	0.00088	0.00034	mg/Kg	✱	11/01/23 12:12	1	EMM
Chlorobenzene	0.00016	U	0.00088	0.00016	mg/Kg	✱	11/01/23 12:12	1	EMM
Chlorobromomethane	0.00025	U	0.00088	0.00025	mg/Kg	✱	11/01/23 12:12	1	EMM
Chlorodibromomethane	0.00017	U	0.00088	0.00017	mg/Kg	✱	11/01/23 12:12	1	EMM
Chloroethane	0.00046	U	0.00088	0.00046	mg/Kg	✱	11/01/23 12:12	1	EMM
Chloroform	0.00086	U	0.00088	0.00086	mg/Kg	✱	11/01/23 12:12	1	EMM
Chloromethane	0.00038	U	0.00088	0.00038	mg/Kg	✱	11/01/23 12:12	1	EMM
cis-1,2-Dichloroethene	0.00032	U	0.00088	0.00032	mg/Kg	✱	11/01/23 12:12	1	EMM
cis-1,3-Dichloropropene	0.00024	U	0.00088	0.00024	mg/Kg	✱	11/01/23 12:12	1	EMM
Cyclohexane	0.00020	U J	0.00088	0.00020	mg/Kg	✱	11/01/23 12:12	1	EMM
Dichlorobromomethane	0.00023	U	0.00088	0.00023	mg/Kg	✱	11/01/23 12:12	1	EMM
Dichlorodifluoromethane	0.00030	U	0.00088	0.00030	mg/Kg	✱	11/01/23 12:12	1	EMM
Ethylbenzene	0.00018	U	0.00088	0.00018	mg/Kg	✱	11/01/23 12:12	1	EMM
Ethylene Dibromide	0.00016	U	0.00088	0.00016	mg/Kg	✱	11/01/23 12:12	1	EMM
Isopropylbenzene	0.00025	U	0.00088	0.00025	mg/Kg	✱	11/01/23 12:12	1	EMM
Methyl acetate	0.0038	U J	0.0044	0.0038	mg/Kg	✱	11/01/23 12:12	1	EMM
Methyl tert-butyl ether	0.00045	U	0.00088	0.00045	mg/Kg	✱	11/01/23 12:12	1	EMM
Methylcyclohexane	0.00044	U J	0.00088	0.00044	mg/Kg	✱	11/01/23 12:12	1	EMM
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	✱	11/01/23 12:12	1	EMM
m-Xylene & p-Xylene	0.00015	U	0.00088	0.00015	mg/Kg	✱	11/01/23 12:12	1	EMM
o-Xylene	0.00017	U	0.00088	0.00017	mg/Kg	✱	11/01/23 12:12	1	EMM
Styrene	0.00025	U	0.00088	0.00025	mg/Kg	✱	11/01/23 12:12	1	EMM
Tetrachloroethene	0.00027	U	0.00088	0.00027	mg/Kg	✱	11/01/23 12:12	1	EMM
Toluene	0.00021	U	0.00088	0.00021	mg/Kg	✱	11/01/23 12:12	1	EMM
trans-1,2-Dichloroethene	0.00022	U	0.00088	0.00022	mg/Kg	✱	11/01/23 12:12	1	EMM
trans-1,3-Dichloropropene	0.00024	U	0.00088	0.00024	mg/Kg	✱	11/01/23 12:12	1	EMM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-114(1.0-1.5)

Lab Sample ID: 460-291054-8

Date Collected: 10/23/23 11:31

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00028	U	0.00088	0.00028	mg/Kg	☼	11/01/23 12:12	1	EMM
Trichlorofluoromethane	0.00036	U	0.00088	0.00036	mg/Kg	☼	11/01/23 12:12	1	EMM
Vinyl chloride	0.00048	U	0.00088	0.00048	mg/Kg	☼	11/01/23 12:12	1	EMM

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 12:12	1	EMM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	97		72 - 138	11/01/23 12:12	1	EMM
4-Bromofluorobenzene	90		63 - 139	11/01/23 12:12	1	EMM
Dibromofluoromethane (Surr)	85		54 - 150	11/01/23 12:12	1	EMM
Toluene-d8 (Surr)	106		71 - 126	11/01/23 12:12	1	EMM

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.013	U	0.37	0.013	mg/Kg	☼	10/25/23 23:11	1	MME
1,2,4,5-Tetrachlorobenzene	0.012	U	0.37	0.012	mg/Kg	☼	10/25/23 23:11	1	MME
2,2'-oxybis[1-chloropropane]	0.022	U	0.37	0.022	mg/Kg	☼	10/25/23 23:11	1	MME
2,3,4,6-Tetrachlorophenol	0.025	U	0.37	0.025	mg/Kg	☼	10/25/23 23:11	1	MME
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	☼	10/25/23 23:11	1	MME
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☼	10/25/23 23:11	1	MME
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/25/23 23:11	1	MME
2,4-Dimethylphenol	0.045	U	0.37	0.045	mg/Kg	☼	10/25/23 23:11	1	MME
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	☼	10/25/23 23:11	1	MME
2,4-Dinitrotoluene	0.040	U	0.076	0.040	mg/Kg	☼	10/25/23 23:11	1	MME
2,6-Dinitrotoluene	0.027	U	0.076	0.027	mg/Kg	☼	10/25/23 23:11	1	MME
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	☼	10/25/23 23:11	1	MME
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	☼	10/25/23 23:11	1	MME
2-Methylnaphthalene	0.010	U	0.37	0.010	mg/Kg	☼	10/25/23 23:11	1	MME
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	☼	10/25/23 23:11	1	MME
2-Nitroaniline	0.028	U	0.37	0.028	mg/Kg	☼	10/25/23 23:11	1	MME
2-Nitrophenol	0.037	U	0.37	0.037	mg/Kg	☼	10/25/23 23:11	1	MME
3,3'-Dichlorobenzidine	0.056	U	0.15	0.056	mg/Kg	☼	10/25/23 23:11	1	MME
3-Nitroaniline	0.089	U	0.37	0.089	mg/Kg	☼	10/25/23 23:11	1	MME
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☼	10/25/23 23:11	1	MME
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	☼	10/25/23 23:11	1	MME
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	☼	10/25/23 23:11	1	MME
4-Chloroaniline	0.066	U	0.37	0.066	mg/Kg	☼	10/25/23 23:11	1	MME
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	☼	10/25/23 23:11	1	MME
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	☼	10/25/23 23:11	1	MME
4-Nitroaniline	0.043	U	0.37	0.043	mg/Kg	☼	10/25/23 23:11	1	MME
4-Nitrophenol	0.061	U	0.76	0.061	mg/Kg	☼	10/25/23 23:11	1	MME
Acenaphthene	0.011	U	0.37	0.011	mg/Kg	☼	10/25/23 23:11	1	MME
Acenaphthylene	0.011	U	0.37	0.011	mg/Kg	☼	10/25/23 23:11	1	MME
Acetophenone	0.018	U	0.37	0.018	mg/Kg	☼	10/25/23 23:11	1	MME
Anthracene	0.011	U	0.37	0.011	mg/Kg	☼	10/25/23 23:11	1	MME
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	10/25/23 23:11	1	MME
Benzaldehyde	0.062	U J	0.37	0.062	mg/Kg	☼	10/25/23 23:11	1	MME
Benzo[a]anthracene	0.038		0.037	0.028	mg/Kg	☼	10/25/23 23:11	1	MME
Benzo[a]pyrene	0.037		0.037	0.0099	mg/Kg	☼	10/25/23 23:11	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: SB-114(1.0-1.5)

Lab Sample ID: 460-291054-8

Date Collected: 10/23/23 11:31

Matrix: Solid

Date Received: 10/24/23 20:00

Percent Solids: 88.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.039		0.037	0.0097	mg/Kg	☆	10/25/23 23:11	1	MME
Benzo[g,h,i]perylene	0.021	J	0.37	0.011	mg/Kg	☆	10/25/23 23:11	1	MME
Benzo[k]fluoranthene	0.014	J	0.037	0.0073	mg/Kg	☆	10/25/23 23:11	1	MME
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	☆	10/25/23 23:11	1	MME
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	☆	10/25/23 23:11	1	MME
Bis(2-ethylhexyl) phthalate	0.034	J	0.37	0.020	mg/Kg	☆	10/25/23 23:11	1	MME
Butyl benzyl phthalate	0.017	U	0.37	0.017	mg/Kg	☆	10/25/23 23:11	1	MME
Caprolactam	0.058	U	0.37	0.058	mg/Kg	☆	10/25/23 23:11	1	MME
Carbazole	0.014	U	0.37	0.014	mg/Kg	☆	10/25/23 23:11	1	MME
Chrysene	0.032	J	0.37	0.016	mg/Kg	☆	10/25/23 23:11	1	MME
Dibenz(a,h)anthracene	0.016	U	0.037	0.016	mg/Kg	☆	10/25/23 23:11	1	MME
Dibenzofuran	0.012	U	0.37	0.012	mg/Kg	☆	10/25/23 23:11	1	MME
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	☆	10/25/23 23:11	1	MME
Dimethyl phthalate	0.085	U	0.37	0.085	mg/Kg	☆	10/25/23 23:11	1	MME
Di-n-butyl phthalate	0.014	U	0.37	0.014	mg/Kg	☆	10/25/23 23:11	1	MME
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	☆	10/25/23 23:11	1	MME
Fluoranthene	0.047	J	0.37	0.013	mg/Kg	☆	10/25/23 23:11	1	MME
Fluorene	0.011	U	0.37	0.011	mg/Kg	☆	10/25/23 23:11	1	MME
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	☆	10/25/23 23:11	1	MME
Hexachlorobutadiene	0.0079	U	0.076	0.0079	mg/Kg	☆	10/25/23 23:11	1	MME
Hexachlorocyclopentadiene	R 0.033	U *	0.37	0.033	mg/Kg	☆	10/25/23 23:11	1	MME
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	☆	10/25/23 23:11	1	MME
Indeno[1,2,3-cd]pyrene	0.022	J	0.037	0.015	mg/Kg	☆	10/25/23 23:11	1	MME
Isophorone	0.11	U	0.15	0.11	mg/Kg	☆	10/25/23 23:11	1	MME
Naphthalene	0.0065	U	0.37	0.0065	mg/Kg	☆	10/25/23 23:11	1	MME
Nitrobenzene	0.021	U	0.037	0.021	mg/Kg	☆	10/25/23 23:11	1	MME
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☆	10/25/23 23:11	1	MME
N-Nitrosodiphenylamine	0.031	U	0.37	0.031	mg/Kg	☆	10/25/23 23:11	1	MME
Pentachlorophenol	0.076	U	0.30	0.076	mg/Kg	☆	10/25/23 23:11	1	MME
Phenanthrene	0.026	J	0.37	0.015	mg/Kg	☆	10/25/23 23:11	1	MME
Phenol	0.014	U	0.37	0.014	mg/Kg	☆	10/25/23 23:11	1	MME
Pyrene	0.065	J	0.37	0.0093	mg/Kg	☆	10/25/23 23:11	1	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	10/25/23 23:11	1	MME

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	37		24 - 137	10/25/23 23:11	1	MME
2-Fluorobiphenyl	63		48 - 120	10/25/23 23:11	1	MME
2-Fluorophenol (Surr)	53		31 - 120	10/25/23 23:11	1	MME
Nitrobenzene-d5 (Surr)	69		38 - 120	10/25/23 23:11	1	MME
Phenol-d5 (Surr)	63		39 - 120	10/25/23 23:11	1	MME
Terphenyl-d14 (Surr)	71		25 - 126	10/25/23 23:11	1	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291054-9

Date Collected: 10/24/23 10:59

Matrix: Water

Date Received: 10/24/23 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		10/30/23 16:19	1	MZS
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		10/30/23 16:19	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		10/30/23 16:19	1	MZS
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		10/30/23 16:19	1	MZS
1,1-Dichloroethane	0.26	U J	1.0	0.26	ug/L		10/30/23 16:19	1	MZS
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		10/30/23 16:19	1	MZS
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L		10/30/23 16:19	1	MZS
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		10/30/23 16:19	1	MZS
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		10/30/23 16:19	1	MZS
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		10/30/23 16:19	1	MZS
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		10/30/23 16:19	1	MZS
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		10/30/23 16:19	1	MZS
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		10/30/23 16:19	1	MZS
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		10/30/23 16:19	1	MZS
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		10/30/23 16:19	1	MZS
2-Hexanone	1.1	U	5.0	1.1	ug/L		10/30/23 16:19	1	MZS
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		10/30/23 16:19	1	MZS
Acetone	4.4	U J	5.0	4.4	ug/L		10/30/23 16:19	1	MZS
Benzene	0.20	U	1.0	0.20	ug/L		10/30/23 16:19	1	MZS
Bromoform	0.54	U	1.0	0.54	ug/L		10/30/23 16:19	1	MZS
Bromomethane	0.55	U	1.0	0.55	ug/L		10/30/23 16:19	1	MZS
Carbon disulfide	0.82	U J	1.0	0.82	ug/L		10/30/23 16:19	1	MZS
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		10/30/23 16:19	1	MZS
Chlorobenzene	0.38	U	1.0	0.38	ug/L		10/30/23 16:19	1	MZS
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		10/30/23 16:19	1	MZS
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L		10/30/23 16:19	1	MZS
Chloroethane	0.32	U	1.0	0.32	ug/L		10/30/23 16:19	1	MZS
Chloroform	0.33	U	1.0	0.33	ug/L		10/30/23 16:19	1	MZS
Chloromethane	0.42	J	1.0	0.40	ug/L		10/30/23 16:19	1	MZS
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		10/30/23 16:19	1	MZS
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/30/23 16:19	1	MZS
Cyclohexane	0.32	U J	1.0	0.32	ug/L		10/30/23 16:19	1	MZS
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		10/30/23 16:19	1	MZS
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		10/30/23 16:19	1	MZS
Ethylbenzene	0.30	U	1.0	0.30	ug/L		10/30/23 16:19	1	MZS
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		10/30/23 16:19	1	MZS
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		10/30/23 16:19	1	MZS
Methyl acetate	0.79	U	5.0	0.79	ug/L		10/30/23 16:19	1	MZS
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		10/30/23 16:19	1	MZS
Methylcyclohexane	0.71	U J	1.0	0.71	ug/L		10/30/23 16:19	1	MZS
Methylene Chloride	0.32	U	1.0	0.32	ug/L		10/30/23 16:19	1	MZS
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		10/30/23 16:19	1	MZS
o-Xylene	0.36	U	1.0	0.36	ug/L		10/30/23 16:19	1	MZS
Styrene	0.42	U	1.0	0.42	ug/L		10/30/23 16:19	1	MZS
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		10/30/23 16:19	1	MZS
Toluene	0.38	U J	1.0	0.38	ug/L		10/30/23 16:19	1	MZS
trans-1,2-Dichloroethene	0.24	U J	1.0	0.24	ug/L		10/30/23 16:19	1	MZS
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/30/23 16:19	1	MZS
Trichloroethene	0.31	U	1.0	0.31	ug/L		10/30/23 16:19	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291054-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291054-9

Date Collected: 10/24/23 10:59

Matrix: Water

Date Received: 10/24/23 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		10/30/23 16:19	1	MZS
Vinyl chloride	0.17	U	1.0	0.17	ug/L		10/30/23 16:19	1	MZS
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		70 - 128				10/30/23 16:19	1	MZS
4-Bromofluorobenzene	88		76 - 120				10/30/23 16:19	1	MZS
Dibromofluoromethane (Surr)	112		77 - 132				10/30/23 16:19	1	MZS
Toluene-d8 (Surr)	98		80 - 120				10/30/23 16:19	1	MZS

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-291147-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52268R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-291147-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-121(26.0-27.0)-20231025	460-291147-1	Soil	10/25/2023		X	X			
SB-117(10.0-11.0)-20231025	460-291147-2	Soil	10/25/2023		X	X			
SB-117(16.0-17.0)-20231025	460-291147-3	Soil	10/25/2023		X	X			
SB-117(20.5-21.5)-20231025	460-291147-4	Soil	10/25/2023		X	X			
SB-121(15.5-16.5)-20231025	460-291147-5	Soil	10/25/2023		X	X			
SB-119(11.0-12.0)-20231025	460-291147-6	Soil	10/25/2023			X			
SB-120(13.0-14.0)-20231024	460-291147-7	Soil	10/24/2023		X	X			
SB-115(5.0-6.0)-20231024	460-291147-8	Soil	10/24/2023		X	X			
SB-115(6.5-7.5)-20231024	460-291147-9	Soil	10/24/2023		X	X			
SB-120(20.0-21.0)-20231024	460-291147-10	Soil	10/24/2023		X	X			
SB-120(22.0-23.0)-20231024	460-291147-11	Soil	10/24/2023		X	X			
DUP20231024-20231024	460-291147-12	Soil	10/24/2023	SB-120(13.0-14.0)-20231024	X	X			

Data Usability Summary Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
TRIP BLANK-20231024	460-291147-13	Water	10/24/2023		X				

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X	X		
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

A VOC aliquot for sample SB-119(11.0-12.0) (460-291147-6) was not received by the laboratory. Only SVOC analysis was performed for this sample.

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
Trip Blank	CCV %D	Acetone	-23.7%
SB-117(10.0-11.0)-20231025	ICV %D	Dichlorodifluoromethane	-21.2%
SB-117(16.0-17.0)-20231025		Carbon disulfide	-22.6%
SB-117(20.5-21.5)-20231025			
SB-121(15.5-16.5)-20231025			
SB-120(13.0-14.0)-20231024			
SB-115(5.0-6.0)-20231024			
SB-120(20.0-21.0)-20231024			
DUP20231024-20231024			
SB-117(16.0-17.0)-20231025	CCV %D	Dichlorodifluoromethane	-37.6%
SB-117(20.5-21.5)-20231025		Chloromethane	-22.1%
SB-115(5.0-6.0)-20231024			
SB-120(20.0-21.0)-20231024			
DUP20231024-20231024			
SB-117(10.0-11.0)-20231025	CCV %D	1,2,4-Trichlorobenzene	-22.5%
SB-121(15.5-16.5)-20231025		1,2,3-Trichlorobenzene	-27.2%
SB-120(13.0-14.0)-20231024			
SB-121(26.0-27.0)-20231025	ICV %D	Acetone	-21.9%
SB-115(6.5-7.5)-20231024		Carbon disulfide	-22.6%

Data Usability Summary Report

Sample Locations	Initial/Continuing	Compound	Criteria
SB-120(22.0-23.0)-20231024			
SB-121(26.0-27.0)-20231025	CCV %D	Chloromethane	+20.8%
SB-115(6.5-7.5)-20231024		1,1,2-Trichloroethane	-20.4%
SB-120(22.0-23.0)-20231024	CCV %D	Dichlorodifluoromethane	+24.3%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-120(13.0-14.0)	Methylcyclohexane	>UL	>UL
	Styrene	>UL	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J

Control Limit	Sample Result	Qualification
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
SB-120(13.0-14.0)	Dichlorodifluoromethane
	Trichlorofluoromethane

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS/LCSD recoveries were within control limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-120(22.0-23.0)	1,1,2-Trichloroethane	AC	<LL but >10%

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-120(13.0-14.0)-20231024/ DUP20231024-20231024	Acetone	3.1	2.1 U	AC
	Benzene	0.68	0.8	16.2 %
	Cyclohexane	0.34 U	0.24 J	AC
	Ethylbenzene	130	160	20.6 %
	Isopropylbenzene	15	18	18.1 %
	m&p-Xylenes	30	36	18.1 %
	Methylcyclohexane	2.1	2.6	21.2 %

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	o-Xylene	43	53	20.8 %
	Toluene	0.56	0.82	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-121(26.0-27.0)-20231025	ICV %D	Benzaldehyde	-58.4%
SB-117(16.0-17.0)-20231025	CCV %D	Benzaldehyde	-51.1%
SB-117(20.5-21.5)-20231025			
SB-121(15.5-16.5)-20231025			
SB-120(13.0-14.0)-20231024			
SB-115(5.0-6.0)-20231024			
SB-115(6.5-7.5)-20231024			
SB-120(20.0-21.0)-20231024			
SB-120(22.0-23.0)-20231024			
SB-119(11.0-12.0)-20231025	CCV %D	Benzaldehyde	-45.7%
SB-117(10.0-11.0)-20231025	ICV %D	Benzaldehyde	-58.7%
	CCV %D	Benzaldehyde	-52.1%

Data Usability Summary Report

Sample Locations	Initial/Continuing	Compound	Criteria
DUP20231024-20231024	ICV %D	Benzaldehyde	-57.3%
	CCV %D	Benzaldehyde	-50.4%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Surrogate	Recovery
SB-121(15.5-16.5)	2-Fluorophenol	AC
	Phenol-d5	AC
	Nitrobenzene-d5	>UL
	2-Fluorobiphenyl	AC
	2,4,6-Tribromophenol	AC
	Terphenyl-d14	AC
SB-115(5.0-6.0)	2-Fluorophenol	AC
	Phenol-d5	AC
	Nitrobenzene-d5	AC
	2-Fluorobiphenyl	AC
	2,4,6-Tribromophenol	AC
	Terphenyl-d14	>UL

Notes:

UL Upper control limit

AC Acceptable

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J

Control Limit	Sample Result	Qualification
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	UJ ¹
	Detect	J ¹

Note:

¹ A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-120(13.0-14.0)	2,4-Dinitrophenol	<10%	<10%
	2,4-Dinitrotoluene	<LL but >10%	<LL but >10%
	2,6-Dinitrotoluene	<LL but >10%	<LL but >10%
	2-Nitrophenol	<LL but >10%	<LL but >10%
	4,6-Dinitro-2-methylphenol	<10%	<10%
	Atrazine	>UL	>UL

Sample Locations	Compound	MS Recovery	MSD Recovery
	Benzaldehyde	>UL	>UL
	Benzo[k]fluoranthene	>UL	>UL
	Caprolactam	<10%	>UL
	Hexachlorocyclopentadiene	<10%	<10%
	Hexachloroethane	<LL but >10%	<LL but >10%
	Indeno[1,2,3-cd]pyrene	<LL but >10%	AC
	N-Nitrosodiphenylamine	>UL	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-121(26.0-27.0)-20231025	Hexachlorocyclopentadiene	<10%	<10%
SB-117(10.0-11.0)-20231025			
SB-117(16.0-17.0)-20231025			
SB-117(20.5-21.5)-20231025			
SB-121(15.5-16.5)-20231025			
SB-119(11.0-12.0)-20231025			
SB-120(13.0-14.0)-20231024			
SB-115(5.0-6.0)-20231024			
SB-115(6.5-7.5)-20231024			
SB-120(20.0-21.0)-20231024			
SB-120(22.0-23.0)-20231024			
DUP20231024-20231024			

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-120(13.0-14.0)-20231024/ DUP20231024-20231024	1,1-Biphenyl	22	23	4.4 %
	2-Methylnaphthalene	200	180	10.5 %
	Acenaphthene	150	130	14.2 %
	Acenaphthylene	12	12	.0 %
	Anthracene	47	49	4.1 %
	Benz(a)anthracene	25	25	.0 %
	Benzo(a)pyrene	21	20	4.8 %
	Benzo(b)fluoranthene	17	14	19.3 %
	Benzo(g,h,i)perylene	5.7	4.9	15.0 %
	Benzo(k)fluoranthene	5.7	5.8	1.7 %
	Carbazole	1.1 J	1.2 J	AC
	Chrysene	23	22	4.4 %
	Dibenz(a,h)anthracene	1.9	1.4	30.3 %
	Dibenzofuran	7.1	6.5	AC
	Fluoranthene	48	51	6.0 %
	Fluorene	58	59	1.7 %
	Indeno(1,2,3-cd)pyrene	6.3	5.5	13.5 %
	Naphthalene	670	740	9.9 %
	Phenanthrene	200	180	10.5 %
	Pyrene	74	72	2.7 %

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

9. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as “Aldol condensation product” are laboratory artifacts and were qualified as rejected (R).

Data Usability Summary Report

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-117(10.0-11.0)	2-Methylnaphthalene	--	320 D	320 D
	Naphthalene	--	640 D	640 D
	Phenanthrene	--	190 D	190 D
SB-117(16.0-17.0)	2-Methylnaphthalene	--	54 D	54 D
	Acenaphthene	--	28 D	28 D
	Anthracene	--	8.9 D	8.9 D
	Fluoranthene	--	10 D	10 D
	Fluorene	--	14 D	14 D
	Naphthalene	--	160 D	160 D
	Phenanthrene	--	34 D	34 D
	Pyrene	--	15 D	15 D
SB-117(20.5-21.5)	2-Methylnaphthalene	--	12 D	12 D
	Naphthalene	--	27 D	27 D
SB-121(15.5-16.5)	1,1'-Biphenyl	--	16 D	16 D
	Acenaphthene	--	84 D	84 D
	Anthracene	--	39 D	39 D
	Benzo[a]anthracene	--	23 D	23 D
	Benzo[a]pyrene	--	19 D	19 D
	Benzo[b]fluoranthene	--	15 D	15 D
	Chrysene	--	20 D	20 D
	Fluoranthene	--	41 D	41 D
	Fluorene	--	46 D	46 D
	Pyrene	--	62 D	62 D
	2-Methylnaphthalene	--	180 D	180 D

Data Usability Summary Report

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
	Naphthalene	--	460 D	460 D
	Phenanthrene	--	200 D	200 D
SB-119(11.0-12.0)	2-Methylnaphthalene	--	490 D	490 D
	Acenaphthylene	--	160 D	160 D
	Naphthalene	--	1000 D	1000 D
	Phenanthrene	--	280 D	280 D
	Pyrene	--	120 D	120 D
SB-120(13.0-14.0)	2-Methylnaphthalene	--	200 D	200 D
	Acenaphthene	--	150 D	150 D
	Naphthalene	--	670 D	670 D
	Phenanthrene	--	200 D	200 D
SB-115(5.0-6.0)	Acenaphthylene	--	15 D	15 D
	Acenaphthylene	--	12 D	12 D
	Benzo[a]anthracene	--	21 D	21 D
	Benzo[a]pyrene	--	31 D	31 D
	Benzo[b]fluoranthene	--	24 D	24 D
	Benzo[g,h,i]perylene	--	9.8 D	9.8 D
	Chrysene	--	21 D	21 D
	Fluoranthene	--	25 D	25 D
	Indeno[1,2,3-cd]pyrene	--	12 D	12 D
	Phenanthrene	--	27 D	27 D
	Pyrene	--	40 D	40 D
SB-115(6.5-7.5)	Anthracene	--	12 D	12 D
	Fluoranthene	--	14 D	14 D
	Phenanthrene	--	50 D	50 D
	Pyrene	--	21 D	21 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-120(20.0-21.0)	2-Methylnaphthalene	--	9.3 D	9.3 D
	Acenaphthene	--	15 D	15 D
	Anthracene	--	10 D	10 D
	Fluoranthene	--	12 D	12 D
	Naphthalene	--	33 D	33 D
	Phenanthrene	--	32 D	32 D
	Pyrene	--	17 D	17 D
DUP20231024	2-Methylnaphthalene	--	180 D	180 D
	Acenaphthene	--	130 D	130 D
	Phenanthrene	--	180 D	180 D
	Naphthalene	--	740 D	740 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-291147-1	10/25/2023	SW846/USEPA	SB-121(26.0-27.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-117(10.0-11.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-117(16.0-17.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-117(20.5-21.5)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-121(15.5-16.5)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-119(11.0-12.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-120(13.0-14.0)-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D, MS/MSD RPD SVOC – ICV/CCV %D, LCS/LCSD %R, MS/MSD %R
	10/24/2023	SW846/USEPA	SB-115(5.0-6.0)-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-115(6.5-7.5)-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-120(20.0-21.0)-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	SB-120(22.0-23.0)-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D, LCS%R SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	DUP20231024-20231024	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/24/2023	SW846/USEPA	TRIP BLANK-20231024	Water	no	--	--	--	--	VOC – ICV/CCV %D

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: January 4, 2024

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: Michael Jones		Site Contact: DM Keller		Date:	
Company Name: Arcadis		Tel/Email: M. Jones		Lab Contact:		COC No. 1 of 2 COCs	
Address: 201 W. 4th St		City/State/Zip: NY 10012		Analysis Turnaround Time		Sampler	
Phone: 212-216-8217		Fax:		Calendar Days		For Lab Use Only	
Project Name: Con Edison		Site: Con Edison		TAT if different from below		Walk-in Client	
PO #		Sample Identification		Sample Date		Lab Sampling:	
						Job / SDG No.	
						291147	
						Sample Specific Notes.	
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						ELMSFORD	
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Page 55 of 56

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(26.0-27.0)

Lab Sample ID: 460-291147-1

Date Collected: 10/25/23 10:43

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00022	U	0.00093	0.00022	mg/Kg	☆	11/02/23 19:09	1	MZS
1,1,2,2-Tetrachloroethane	0.00020	U	0.00093	0.00020	mg/Kg	☆	11/02/23 19:09	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00093	0.00028	mg/Kg	☆	11/02/23 19:09	1	MZS
1,1,2-Trichloroethane	0.00016	U J	0.00093	0.00016	mg/Kg	☆	11/02/23 19:09	1	MZS
1,1-Dichloroethane	0.00019	U	0.00093	0.00019	mg/Kg	☆	11/02/23 19:09	1	MZS
1,1-Dichloroethene	0.00021	U	0.00093	0.00021	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2,3-Trichlorobenzene	0.00017	U	0.00093	0.00017	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2,4-Trichlorobenzene	0.00033	U	0.00093	0.00033	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2-Dibromo-3-Chloropropane	0.00043	U	0.00093	0.00043	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2-Dichlorobenzene	0.00033	U	0.00093	0.00033	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2-Dichloroethane	0.00027	U	0.00093	0.00027	mg/Kg	☆	11/02/23 19:09	1	MZS
1,2-Dichloropropane	0.00039	U	0.00093	0.00039	mg/Kg	☆	11/02/23 19:09	1	MZS
1,3-Dichlorobenzene	0.00034	U	0.00093	0.00034	mg/Kg	☆	11/02/23 19:09	1	MZS
1,4-Dichlorobenzene	0.00021	U	0.00093	0.00021	mg/Kg	☆	11/02/23 19:09	1	MZS
1,4-Dioxane	0.0085	U	0.093	0.0085	mg/Kg	☆	11/02/23 19:09	1	MZS
2-Butanone (MEK)	0.0043	J	0.0046	0.00034	mg/Kg	☆	11/02/23 19:09	1	MZS
2-Hexanone	0.0016	U	0.0046	0.0016	mg/Kg	☆	11/02/23 19:09	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0046	0.0014	mg/Kg	☆	11/02/23 19:09	1	MZS
Acetone	0.011	J	0.0056	0.0053	mg/Kg	☆	11/02/23 19:09	1	MZS
Benzene	0.00024	U	0.00093	0.00024	mg/Kg	☆	11/02/23 19:09	1	MZS
Bromoform	0.00039	U	0.00093	0.00039	mg/Kg	☆	11/02/23 19:09	1	MZS
Bromomethane	0.00093	U	0.0019	0.00093	mg/Kg	☆	11/02/23 19:09	1	MZS
Carbon disulfide	0.00034	J	0.00093	0.00025	mg/Kg	☆	11/02/23 19:09	1	MZS
Carbon tetrachloride	0.00036	U	0.00093	0.00036	mg/Kg	☆	11/02/23 19:09	1	MZS
Chlorobenzene	0.00016	U	0.00093	0.00016	mg/Kg	☆	11/02/23 19:09	1	MZS
Chlorobromomethane	0.00026	U	0.00093	0.00026	mg/Kg	☆	11/02/23 19:09	1	MZS
Chlorodibromomethane	0.00018	U	0.00093	0.00018	mg/Kg	☆	11/02/23 19:09	1	MZS
Chloroethane	0.00048	U	0.00093	0.00048	mg/Kg	☆	11/02/23 19:09	1	MZS
Chloroform	0.00090	U	0.00093	0.00090	mg/Kg	☆	11/02/23 19:09	1	MZS
Chloromethane	0.00040	U J	0.00093	0.00040	mg/Kg	☆	11/02/23 19:09	1	MZS
cis-1,2-Dichloroethene	0.00033	U	0.00093	0.00033	mg/Kg	☆	11/02/23 19:09	1	MZS
cis-1,3-Dichloropropene	0.00025	U	0.00093	0.00025	mg/Kg	☆	11/02/23 19:09	1	MZS
Cyclohexane	0.00020	U	0.00093	0.00020	mg/Kg	☆	11/02/23 19:09	1	MZS
Dichlorobromomethane	0.00024	U	0.00093	0.00024	mg/Kg	☆	11/02/23 19:09	1	MZS
Dichlorodifluoromethane	0.00031	U	0.00093	0.00031	mg/Kg	☆	11/02/23 19:09	1	MZS
Ethylbenzene	0.00042	J	0.00093	0.00018	mg/Kg	☆	11/02/23 19:09	1	MZS
Ethylene Dibromide	0.00017	U	0.00093	0.00017	mg/Kg	☆	11/02/23 19:09	1	MZS
Isopropylbenzene	0.00026	U	0.00093	0.00026	mg/Kg	☆	11/02/23 19:09	1	MZS
Methyl acetate	0.0040	U	0.0046	0.0040	mg/Kg	☆	11/02/23 19:09	1	MZS
Methyl tert-butyl ether	0.00047	U	0.00093	0.00047	mg/Kg	☆	11/02/23 19:09	1	MZS
Methylcyclohexane	0.00046	U	0.00093	0.00046	mg/Kg	☆	11/02/23 19:09	1	MZS
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☆	11/02/23 19:09	1	MZS
m-Xylene & p-Xylene	0.00017	J	0.00093	0.00016	mg/Kg	☆	11/02/23 19:09	1	MZS
o-Xylene	0.00029	J	0.00093	0.00018	mg/Kg	☆	11/02/23 19:09	1	MZS
Styrene	0.00026	U	0.00093	0.00026	mg/Kg	☆	11/02/23 19:09	1	MZS
Tetrachloroethene	0.00028	U	0.00093	0.00028	mg/Kg	☆	11/02/23 19:09	1	MZS
Toluene	0.00022	U	0.00093	0.00022	mg/Kg	☆	11/02/23 19:09	1	MZS
trans-1,2-Dichloroethene	0.00023	U	0.00093	0.00023	mg/Kg	☆	11/02/23 19:09	1	MZS
trans-1,3-Dichloropropene	0.00025	U	0.00093	0.00025	mg/Kg	☆	11/02/23 19:09	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(26.0-27.0)

Lab Sample ID: 460-291147-1

Date Collected: 10/25/23 10:43

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00030	U	0.00093	0.00030	mg/Kg	☼	11/02/23 19:09	1	MZS
Trichlorofluoromethane	0.00038	U	0.00093	0.00038	mg/Kg	☼	11/02/23 19:09	1	MZS
Vinyl chloride	0.00051	U	0.00093	0.00051	mg/Kg	☼	11/02/23 19:09	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/02/23 19:09	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	103		72 - 138	11/02/23 19:09	1	MZS
4-Bromofluorobenzene	97		63 - 139	11/02/23 19:09	1	MZS
Dibromofluoromethane (Surr)	108		54 - 150	11/02/23 19:09	1	MZS
Toluene-d8 (Surr)	98		71 - 126	11/02/23 19:09	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 08:51	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	10/27/23 08:51	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	10/27/23 08:51	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	10/27/23 08:51	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	10/27/23 08:51	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	10/27/23 08:51	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	10/27/23 08:51	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	10/27/23 08:51	1	MDJ
Acenaphthene	0.026	J	0.33	0.0094	mg/Kg	☼	10/27/23 08:51	1	MDJ
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	10/27/23 08:51	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	10/27/23 08:51	1	MDJ
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	10/27/23 08:51	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	10/27/23 08:51	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	10/27/23 08:51	1	MDJ
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	10/27/23 08:51	1	MDJ
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	10/27/23 08:51	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(26.0-27.0)

Lab Sample ID: 460-291147-1

Date Collected: 10/25/23 10:43

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	✱	10/27/23 08:51	1	MDJ
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	✱	10/27/23 08:51	1	MDJ
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	✱	10/27/23 08:51	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	10/27/23 08:51	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	10/27/23 08:51	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 08:51	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	10/27/23 08:51	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	10/27/23 08:51	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	10/27/23 08:51	1	MDJ
Chrysene	0.014	U	0.33	0.014	mg/Kg	✱	10/27/23 08:51	1	MDJ
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	✱	10/27/23 08:51	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	10/27/23 08:51	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	10/27/23 08:51	1	MDJ
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	✱	10/27/23 08:51	1	MDJ
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:51	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 08:51	1	MDJ
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:51	1	MDJ
Fluorene	0.013	J	0.33	0.0097	mg/Kg	✱	10/27/23 08:51	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	10/27/23 08:51	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	10/27/23 08:51	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	10/27/23 08:51	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	10/27/23 08:51	1	MDJ
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	✱	10/27/23 08:51	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	✱	10/27/23 08:51	1	MDJ
Naphthalene	0.024	J	0.33	0.0057	mg/Kg	✱	10/27/23 08:51	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	✱	10/27/23 08:51	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	10/27/23 08:51	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	✱	10/27/23 08:51	1	MDJ
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	✱	10/27/23 08:51	1	MDJ
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	✱	10/27/23 08:51	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:51	1	MDJ
Pyrene	0.017	J	0.33	0.0082	mg/Kg	✱	10/27/23 08:51	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/27/23 08:51	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	86		24 - 137	10/27/23 08:51	1	MDJ
2-Fluorobiphenyl	95		48 - 120	10/27/23 08:51	1	MDJ
2-Fluorophenol (Surr)	90		31 - 120	10/27/23 08:51	1	MDJ
Nitrobenzene-d5 (Surr)	100		38 - 120	10/27/23 08:51	1	MDJ
Phenol-d5 (Surr)	97		39 - 120	10/27/23 08:51	1	MDJ
Terphenyl-d14 (Surr)	111		25 - 126	10/27/23 08:51	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(10.0-11.0)

Lab Sample ID: 460-291147-2

Date Collected: 10/25/23 11:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.13	U	0.47	0.13	mg/Kg	✱	10/31/23 21:30	250	MZS
1,1,2,2-Tetrachloroethane	0.092	U	0.47	0.092	mg/Kg	✱	10/31/23 21:30	250	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.16	U	0.47	0.16	mg/Kg	✱	10/31/23 21:30	250	MZS
1,1,2-Trichloroethane	0.095	U	0.47	0.095	mg/Kg	✱	10/31/23 21:30	250	MZS
1,1-Dichloroethane	0.11	U	0.47	0.11	mg/Kg	✱	10/31/23 21:30	250	MZS
1,1-Dichloroethene	0.12	U	0.47	0.12	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2,3-Trichlorobenzene	0.16	U J	0.47	0.16	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2,4-Trichlorobenzene	0.13	U J	0.47	0.13	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2-Dibromo-3-Chloropropane	0.099	U	0.47	0.099	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2-Dichlorobenzene	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2-Dichloroethane	0.12	U	0.47	0.12	mg/Kg	✱	10/31/23 21:30	250	MZS
1,2-Dichloropropane	0.084	U	0.47	0.084	mg/Kg	✱	10/31/23 21:30	250	MZS
1,3-Dichlorobenzene	0.15	U	0.47	0.15	mg/Kg	✱	10/31/23 21:30	250	MZS
1,4-Dichlorobenzene	0.16	U	0.47	0.16	mg/Kg	✱	10/31/23 21:30	250	MZS
1,4-Dioxane	13	U	23	13	mg/Kg	✱	10/31/23 21:30	250	MZS
2-Butanone (MEK)	1.0	U	2.3	1.0	mg/Kg	✱	10/31/23 21:30	250	MZS
2-Hexanone	0.53	U	2.3	0.53	mg/Kg	✱	10/31/23 21:30	250	MZS
4-Methyl-2-pentanone (MIBK)	0.61	U	2.3	0.61	mg/Kg	✱	10/31/23 21:30	250	MZS
Acetone	4.9		2.3	2.1	mg/Kg	✱	10/31/23 21:30	250	MZS
Benzene	54		0.47	0.094	mg/Kg	✱	10/31/23 21:30	250	MZS
Bromoform	0.084	U	0.47	0.084	mg/Kg	✱	10/31/23 21:30	250	MZS
Bromomethane	0.26	U	0.47	0.26	mg/Kg	✱	10/31/23 21:30	250	MZS
Carbon disulfide	0.31	U J	0.47	0.31	mg/Kg	✱	10/31/23 21:30	250	MZS
Carbon tetrachloride	0.15	U	0.47	0.15	mg/Kg	✱	10/31/23 21:30	250	MZS
Chlorobenzene	0.11	U	0.47	0.11	mg/Kg	✱	10/31/23 21:30	250	MZS
Chlorobromomethane	0.14	U	0.47	0.14	mg/Kg	✱	10/31/23 21:30	250	MZS
Chlorodibromomethane	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS
Chloroethane	0.17	U	0.47	0.17	mg/Kg	✱	10/31/23 21:30	250	MZS
Chloroform	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS
Chloromethane	0.19	U	0.47	0.19	mg/Kg	✱	10/31/23 21:30	250	MZS
cis-1,2-Dichloroethene	0.12	U	0.47	0.12	mg/Kg	✱	10/31/23 21:30	250	MZS
cis-1,3-Dichloropropene	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS
Cyclohexane	0.12	U	0.47	0.12	mg/Kg	✱	10/31/23 21:30	250	MZS
Dichlorobromomethane	0.070	U	0.47	0.070	mg/Kg	✱	10/31/23 21:30	250	MZS
Dichlorodifluoromethane	0.14	U J	0.47	0.14	mg/Kg	✱	10/31/23 21:30	250	MZS
Ethylbenzene	88		0.47	0.14	mg/Kg	✱	10/31/23 21:30	250	MZS
Ethylene Dibromide	0.088	U	0.47	0.088	mg/Kg	✱	10/31/23 21:30	250	MZS
Isopropylbenzene	3.0		0.47	0.15	mg/Kg	✱	10/31/23 21:30	250	MZS
Methyl acetate	0.36	U	2.3	0.36	mg/Kg	✱	10/31/23 21:30	250	MZS
Methyl tert-butyl ether	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS
Methylcyclohexane	0.34	U	0.47	0.34	mg/Kg	✱	10/31/23 21:30	250	MZS
Methylene Chloride	0.098	U	0.47	0.098	mg/Kg	✱	10/31/23 21:30	250	MZS
m-Xylene & p-Xylene	110		0.47	0.13	mg/Kg	✱	10/31/23 21:30	250	MZS
o-Xylene	49		0.47	0.15	mg/Kg	✱	10/31/23 21:30	250	MZS
Styrene	65		0.47	0.079	mg/Kg	✱	10/31/23 21:30	250	MZS
Tetrachloroethene	0.17	U	0.47	0.17	mg/Kg	✱	10/31/23 21:30	250	MZS
Toluene	130		0.47	0.12	mg/Kg	✱	10/31/23 21:30	250	MZS
trans-1,2-Dichloroethene	0.084	U	0.47	0.084	mg/Kg	✱	10/31/23 21:30	250	MZS
trans-1,3-Dichloropropene	0.10	U	0.47	0.10	mg/Kg	✱	10/31/23 21:30	250	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(10.0-11.0)

Lab Sample ID: 460-291147-2

Date Collected: 10/25/23 11:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.10	U	0.47	0.10	mg/Kg	☼	10/31/23 21:30	250	MZS
Trichlorofluoromethane	0.15	U	0.47	0.15	mg/Kg	☼	10/31/23 21:30	250	MZS
Vinyl chloride	0.093	U	0.47	0.093	mg/Kg	☼	10/31/23 21:30	250	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	27	J N	mg/Kg	☼	11.02	620-14-4	10/31/23 21:30	250	MZS
Benzene, 1,2,4-trimethyl-	43	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 21:30	250	MZS
Benzene, 1-ethenyl-3-methyl-	54	J N	mg/Kg	☼	11.72	100-80-1	10/31/23 21:30	250	MZS
Indane	61	J N	mg/Kg	☼	12.22	496-11-7	10/31/23 21:30	250	MZS
Indene	280	J N	mg/Kg	☼	12.40	95-13-6	10/31/23 21:30	250	MZS
1H-Indene, 1-methyl-	40	J N	mg/Kg	☼	13.24	767-59-9	10/31/23 21:30	250	MZS
2-Methylindene	45	J N	mg/Kg	☼	13.29	2177-47-1	10/31/23 21:30	250	MZS
Naphthalene	520	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 21:30	250	MZS
Naphthalene, 2-methyl-	130	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 21:30	250	MZS
Naphthalene, 1-methyl-	71	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 21:30	250	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	108		68 - 150	10/31/23 21:30	250	MZS
4-Bromofluorobenzene	105		70 - 141	10/31/23 21:30	250	MZS
Dibromofluoromethane (Surr)	89		68 - 142	10/31/23 21:30	250	MZS
Toluene-d8 (Surr)	106		73 - 147	10/31/23 21:30	250	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	24		3.6	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
1,2,4,5-Tetrachlorobenzene	0.11	U	3.6	0.11	mg/Kg	☼	10/28/23 05:54	10	YAH
2,2'-oxybis[1-chloropropane]	0.22	U	3.6	0.22	mg/Kg	☼	10/28/23 05:54	10	YAH
2,3,4,6-Tetrachlorophenol	0.25	U	3.6	0.25	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4,5-Trichlorophenol	0.37	U	3.6	0.37	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4,6-Trichlorophenol	0.47	U	1.5	0.47	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4-Dichlorophenol	0.23	U	1.5	0.23	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4-Dimethylphenol	0.43	U	3.6	0.43	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4-Dinitrophenol	1.8	U	2.9	1.8	mg/Kg	☼	10/28/23 05:54	10	YAH
2,4-Dinitrotoluene	0.39	U	0.74	0.39	mg/Kg	☼	10/28/23 05:54	10	YAH
2,6-Dinitrotoluene	0.26	U	0.74	0.26	mg/Kg	☼	10/28/23 05:54	10	YAH
2-Chloronaphthalene	0.17	U	3.6	0.17	mg/Kg	☼	10/28/23 05:54	10	YAH
2-Chlorophenol	0.13	U	3.6	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
2-Methylphenol	0.14	U	3.6	0.14	mg/Kg	☼	10/28/23 05:54	10	YAH
2-Nitroaniline	0.28	U	3.6	0.28	mg/Kg	☼	10/28/23 05:54	10	YAH
2-Nitrophenol	0.36	U	3.6	0.36	mg/Kg	☼	10/28/23 05:54	10	YAH
3,3'-Dichlorobenzidine	0.55	U	1.5	0.55	mg/Kg	☼	10/28/23 05:54	10	YAH
3-Nitroaniline	0.86	U	3.6	0.86	mg/Kg	☼	10/28/23 05:54	10	YAH
4,6-Dinitro-2-methylphenol	1.5	U	2.9	1.5	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Bromophenyl phenyl ether	0.14	U	3.6	0.14	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Chloro-3-methylphenol	0.20	U	3.6	0.20	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Chloroaniline	0.64	U	3.6	0.64	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Chlorophenyl phenyl ether	0.13	U	3.6	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Methylphenol	0.23	U	3.6	0.23	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Nitroaniline	0.42	U	3.6	0.42	mg/Kg	☼	10/28/23 05:54	10	YAH
4-Nitrophenol	0.59	U	7.4	0.59	mg/Kg	☼	10/28/23 05:54	10	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(10.0-11.0)

Lab Sample ID: 460-291147-2

Date Collected: 10/25/23 11:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 91.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	46		3.6	0.10	mg/Kg	☼	10/28/23 05:54	10	YAH
Acenaphthylene	81		3.6	0.10	mg/Kg	☼	10/28/23 05:54	10	YAH
Acetophenone	0.18	U	3.6	0.18	mg/Kg	☼	10/28/23 05:54	10	YAH
Anthracene	48		3.6	0.11	mg/Kg	☼	10/28/23 05:54	10	YAH
Atrazine	0.21	U	1.5	0.21	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzaldehyde	0.60	U J	3.6	0.60	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzo[a]anthracene	24		0.36	0.27	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzo[a]pyrene	21		0.36	0.097	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzo[b]fluoranthene	16		0.36	0.094	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzo[g,h,i]perylene	5.0		3.6	0.11	mg/Kg	☼	10/28/23 05:54	10	YAH
Benzo[k]fluoranthene	6.0		0.36	0.071	mg/Kg	☼	10/28/23 05:54	10	YAH
Bis(2-chloroethoxy)methane	0.28	U	3.6	0.28	mg/Kg	☼	10/28/23 05:54	10	YAH
Bis(2-chloroethyl)ether	0.13	U	0.36	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
Bis(2-ethylhexyl) phthalate	0.19	U	3.6	0.19	mg/Kg	☼	10/28/23 05:54	10	YAH
Butyl benzyl phthalate	0.17	U	3.6	0.17	mg/Kg	☼	10/28/23 05:54	10	YAH
Caprolactam	0.56	U	3.6	0.56	mg/Kg	☼	10/28/23 05:54	10	YAH
Carbazole	2.2	J	3.6	0.14	mg/Kg	☼	10/28/23 05:54	10	YAH
Chrysene	22		3.6	0.15	mg/Kg	☼	10/28/23 05:54	10	YAH
Dibenz(a,h)anthracene	1.6		0.36	0.16	mg/Kg	☼	10/28/23 05:54	10	YAH
Dibenzofuran	7.6		3.6	0.12	mg/Kg	☼	10/28/23 05:54	10	YAH
Diethyl phthalate	0.12	U	3.6	0.12	mg/Kg	☼	10/28/23 05:54	10	YAH
Dimethyl phthalate	0.82	U	3.6	0.82	mg/Kg	☼	10/28/23 05:54	10	YAH
Di-n-butyl phthalate	0.14	U	3.6	0.14	mg/Kg	☼	10/28/23 05:54	10	YAH
Di-n-octyl phthalate	0.19	U	3.6	0.19	mg/Kg	☼	10/28/23 05:54	10	YAH
Fluoranthene	45		3.6	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
Fluorene	62		3.6	0.11	mg/Kg	☼	10/28/23 05:54	10	YAH
Hexachlorobenzene	0.17	U	0.36	0.17	mg/Kg	☼	10/28/23 05:54	10	YAH
Hexachlorobutadiene	0.077	U	0.74	0.077	mg/Kg	☼	10/28/23 05:54	10	YAH
Hexachlorocyclopentadiene	R 0.32	U *	3.6	0.32	mg/Kg	☼	10/28/23 05:54	10	YAH
Hexachloroethane	0.12	U	0.36	0.12	mg/Kg	☼	10/28/23 05:54	10	YAH
Indeno[1,2,3-cd]pyrene	6.7		0.36	0.14	mg/Kg	☼	10/28/23 05:54	10	YAH
Isophorone	1.0	U	1.5	1.0	mg/Kg	☼	10/28/23 05:54	10	YAH
Nitrobenzene	0.20	U	0.36	0.20	mg/Kg	☼	10/28/23 05:54	10	YAH
N-Nitrosodi-n-propylamine	0.26	U	0.36	0.26	mg/Kg	☼	10/28/23 05:54	10	YAH
N-Nitrosodiphenylamine	0.30	U	3.6	0.30	mg/Kg	☼	10/28/23 05:54	10	YAH
Pentachlorophenol	0.74	U	2.9	0.74	mg/Kg	☼	10/28/23 05:54	10	YAH
Phenol	0.13	U	3.6	0.13	mg/Kg	☼	10/28/23 05:54	10	YAH
Pyrene	64		3.6	0.090	mg/Kg	☼	10/28/23 05:54	10	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Toluene	35	J N	mg/Kg	☼	2.00	108-88-3	10/28/23 05:54	10	YAH
Ethylbenzene	34	J N	mg/Kg	☼	2.82	100-41-4	10/28/23 05:54	10	YAH
Styrene	45	J N	mg/Kg	☼	3.11	100-42-5	10/28/23 05:54	10	YAH
Benzene, 2-propenyl-	56	J N	mg/Kg	☼	4.02	300-57-2	10/28/23 05:54	10	YAH
Indane	30	J N	mg/Kg	☼	4.35	496-11-7	10/28/23 05:54	10	YAH
Indene	140	J N	mg/Kg	☼	4.43	95-13-6	10/28/23 05:54	10	YAH
Benzene, (1-methyl-2-cyclopropen-1-yl)-	44	J N	mg/Kg	☼	5.18	65051-83-4	10/28/23 05:54	10	YAH
2-Methylindene	46	J N	mg/Kg	☼	5.20	2177-47-1	10/28/23 05:54	10	YAH
Naphthalene, 1-methyl-	99	J N	mg/Kg	☼	6.20	90-12-0	10/28/23 05:54	10	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(10.0-11.0)

Lab Sample ID: 460-291147-2

Date Collected: 10/25/23 11:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 91.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 2,6-dimethyl-	41	J N	mg/Kg	⊛	6.70	581-42-0	10/28/23 05:54	10	YAH
Naphthalene, 1,6-dimethyl-	45	J N	mg/Kg	⊛	6.77	575-43-9	10/28/23 05:54	10	YAH
Naphthalene, 1,5-dimethyl-	25	J N	mg/Kg	⊛	6.80	571-61-9	10/28/23 05:54	10	YAH
Naphthalene, 2,3-dimethyl-	24	J N	mg/Kg	⊛	6.88	581-40-8	10/28/23 05:54	10	YAH
9H-Fluorene, 1-methyl-	21	J N	mg/Kg	⊛	8.14	1730-37-6	10/28/23 05:54	10	YAH
Dibenzothiophene	23	J N	mg/Kg	⊛	8.41	132-65-0	10/28/23 05:54	10	YAH
Phenanthrene, 2-methyl-	32	J N	mg/Kg	⊛	8.99	2531-84-2	10/28/23 05:54	10	YAH
Anthracene, 1-methyl-	36	J N	mg/Kg	⊛	9.01	610-48-0	10/28/23 05:54	10	YAH
4H-Cyclopenta[def]phenanthrene	57	J N	mg/Kg	⊛	9.09	203-64-5	10/28/23 05:54	10	YAH
Anthracene, 2-methyl-	22	J N	mg/Kg	⊛	9.11	613-12-7	10/28/23 05:54	10	YAH
Unknown	27	J N	mg/Kg	⊛	9.75	N/A	10/28/23 05:54	10	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	88		24 - 137	10/28/23 05:54	10	YAH
2-Fluorobiphenyl	80		48 - 120	10/28/23 05:54	10	YAH
2-Fluorophenol (Surr)	61		31 - 120	10/28/23 05:54	10	YAH
Nitrobenzene-d5 (Surr)	65		38 - 120	10/28/23 05:54	10	YAH
Phenol-d5 (Surr)	70		39 - 120	10/28/23 05:54	10	YAH
Terphenyl-d14 (Surr)	86		25 - 126	10/28/23 05:54	10	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	320	D	36	1.0	mg/Kg	⊛	10/28/23 06:16	100	YAH
Naphthalene	640	D	36	0.63	mg/Kg	⊛	10/28/23 06:16	100	YAH
Phenanthrene	190	D	36	1.5	mg/Kg	⊛	10/28/23 06:16	100	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/28/23 06:16	100	YAH

Client Sample ID: SB-117(16.0-17.0)

Lab Sample ID: 460-291147-3

Date Collected: 10/25/23 11:39

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.027	U	0.097	0.027	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,1,2,2-Tetrachloroethane	0.019	U	0.097	0.019	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.033	U	0.097	0.033	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,1,2-Trichloroethane	0.020	U	0.097	0.020	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,1-Dichloroethane	0.023	U	0.097	0.023	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,1-Dichloroethene	0.026	U	0.097	0.026	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2,3-Trichlorobenzene	0.034	U	0.097	0.034	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2,4-Trichlorobenzene	0.026	U	0.097	0.026	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2-Dibromo-3-Chloropropane	0.021	U	0.097	0.021	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2-Dichlorobenzene	0.021	U	0.097	0.021	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2-Dichloroethane	0.024	U	0.097	0.024	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,2-Dichloropropane	0.017	U	0.097	0.017	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,3-Dichlorobenzene	0.032	U	0.097	0.032	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,4-Dichlorobenzene	0.032	U	0.097	0.032	mg/Kg	⊛	10/31/23 08:32	50	MZS
1,4-Dioxane	2.7	U	4.8	2.7	mg/Kg	⊛	10/31/23 08:32	50	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(16.0-17.0)

Lab Sample ID: 460-291147-3

Date Collected: 10/25/23 11:39

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Butanone (MEK)	0.21	U	0.48	0.21	mg/Kg	☼	10/31/23 08:32	50	MZS
2-Hexanone	0.11	U	0.48	0.11	mg/Kg	☼	10/31/23 08:32	50	MZS
4-Methyl-2-pentanone (MIBK)	0.13	U	0.48	0.13	mg/Kg	☼	10/31/23 08:32	50	MZS
Acetone	0.43	U	0.48	0.43	mg/Kg	☼	10/31/23 08:32	50	MZS
Benzene	1.3		0.097	0.020	mg/Kg	☼	10/31/23 08:32	50	MZS
Bromoform	0.017	U	0.097	0.017	mg/Kg	☼	10/31/23 08:32	50	MZS
Bromomethane	0.054	U	0.097	0.054	mg/Kg	☼	10/31/23 08:32	50	MZS
Carbon disulfide	0.065	U J	0.097	0.065	mg/Kg	☼	10/31/23 08:32	50	MZS
Carbon tetrachloride	0.032	U	0.097	0.032	mg/Kg	☼	10/31/23 08:32	50	MZS
Chlorobenzene	0.023	U	0.097	0.023	mg/Kg	☼	10/31/23 08:32	50	MZS
Chlorobromomethane	0.029	U	0.097	0.029	mg/Kg	☼	10/31/23 08:32	50	MZS
Chlorodibromomethane	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Chloroethane	0.036	U	0.097	0.036	mg/Kg	☼	10/31/23 08:32	50	MZS
Chloroform	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Chloromethane	0.039	U J	0.097	0.039	mg/Kg	☼	10/31/23 08:32	50	MZS
cis-1,2-Dichloroethene	0.025	U	0.097	0.025	mg/Kg	☼	10/31/23 08:32	50	MZS
cis-1,3-Dichloropropene	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Cyclohexane	0.025	U	0.097	0.025	mg/Kg	☼	10/31/23 08:32	50	MZS
Dichlorobromomethane	0.015	U	0.097	0.015	mg/Kg	☼	10/31/23 08:32	50	MZS
Dichlorodifluoromethane	0.030	U J	0.097	0.030	mg/Kg	☼	10/31/23 08:32	50	MZS
Ethylbenzene	19		0.097	0.029	mg/Kg	☼	10/31/23 08:32	50	MZS
Ethylene Dibromide	0.018	U	0.097	0.018	mg/Kg	☼	10/31/23 08:32	50	MZS
Isopropylbenzene	1.6		0.097	0.031	mg/Kg	☼	10/31/23 08:32	50	MZS
Methyl acetate	0.076	U	0.48	0.076	mg/Kg	☼	10/31/23 08:32	50	MZS
Methyl tert-butyl ether	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Methylcyclohexane	0.070	U	0.097	0.070	mg/Kg	☼	10/31/23 08:32	50	MZS
Methylene Chloride	0.020	U	0.097	0.020	mg/Kg	☼	10/31/23 08:32	50	MZS
m-Xylene & p-Xylene	14		0.097	0.027	mg/Kg	☼	10/31/23 08:32	50	MZS
o-Xylene	6.7		0.097	0.031	mg/Kg	☼	10/31/23 08:32	50	MZS
Styrene	1.2		0.097	0.016	mg/Kg	☼	10/31/23 08:32	50	MZS
Tetrachloroethene	0.035	U	0.097	0.035	mg/Kg	☼	10/31/23 08:32	50	MZS
Toluene	4.7		0.097	0.024	mg/Kg	☼	10/31/23 08:32	50	MZS
trans-1,2-Dichloroethene	0.017	U	0.097	0.017	mg/Kg	☼	10/31/23 08:32	50	MZS
trans-1,3-Dichloropropene	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Trichloroethene	0.021	U	0.097	0.021	mg/Kg	☼	10/31/23 08:32	50	MZS
Trichlorofluoromethane	0.031	U	0.097	0.031	mg/Kg	☼	10/31/23 08:32	50	MZS
Vinyl chloride	0.019	U	0.097	0.019	mg/Kg	☼	10/31/23 08:32	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	9.6	J N	mg/Kg	☼	11.02	620-14-4	10/31/23 08:32	50	MZS
Benzene, 1-ethyl-4-methyl-	5.2	J N	mg/Kg	☼	11.05	622-96-8	10/31/23 08:32	50	MZS
Benzene, 1,2,4-trimethyl-	7.1	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 08:32	50	MZS
Indane	63	J N	mg/Kg	☼	12.22	496-11-7	10/31/23 08:32	50	MZS
Indene	7.1	J N	mg/Kg	☼	12.40	95-13-6	10/31/23 08:32	50	MZS
1,4-Dihydronaphthalene	5.9	J N	mg/Kg	☼	13.23	612-17-9	10/31/23 08:32	50	MZS
Benzene, (1-methyl-2-cyclopropen-1-yl)-	10	J N	mg/Kg	☼	13.29	65051-83-4	10/31/23 08:32	50	MZS
Naphthalene	120	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 08:32	50	MZS
Naphthalene, 2-methyl-	32	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 08:32	50	MZS
Naphthalene, 1-methyl-	15	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 08:32	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(16.0-17.0)

Lab Sample ID: 460-291147-3

Date Collected: 10/25/23 11:39

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 88.3

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	115		68 - 150	10/31/23 08:32	50	MZS
4-Bromofluorobenzene	100		70 - 141	10/31/23 08:32	50	MZS
Dibromofluoromethane (Surr)	105		68 - 142	10/31/23 08:32	50	MZS
Toluene-d8 (Surr)	104		73 - 147	10/31/23 08:32	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	5.7		0.37	0.013	mg/Kg	☆	10/27/23 09:36	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.37	0.012	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,2'-oxybis[1-chloropropane]	0.022	U	0.37	0.022	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,3,4,6-Tetrachlorophenol	0.025	U	0.37	0.025	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4-Dimethylphenol	0.044	U	0.37	0.044	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,4-Dinitrotoluene	0.040	U	0.075	0.040	mg/Kg	☆	10/27/23 09:36	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.075	0.027	mg/Kg	☆	10/27/23 09:36	1	MDJ
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	☆	10/27/23 09:36	1	MDJ
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	☆	10/27/23 09:36	1	MDJ
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	☆	10/27/23 09:36	1	MDJ
2-Nitroaniline	0.028	U	0.37	0.028	mg/Kg	☆	10/27/23 09:36	1	MDJ
2-Nitrophenol	0.037	U	0.37	0.037	mg/Kg	☆	10/27/23 09:36	1	MDJ
3,3'-Dichlorobenzidine	0.056	U	0.15	0.056	mg/Kg	☆	10/27/23 09:36	1	MDJ
3-Nitroaniline	0.088	U	0.37	0.088	mg/Kg	☆	10/27/23 09:36	1	MDJ
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Chloroaniline	0.066	U	0.37	0.066	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Nitroaniline	0.043	U	0.37	0.043	mg/Kg	☆	10/27/23 09:36	1	MDJ
4-Nitrophenol	0.061	U	0.75	0.061	mg/Kg	☆	10/27/23 09:36	1	MDJ
Acenaphthylene	4.1		0.37	0.011	mg/Kg	☆	10/27/23 09:36	1	MDJ
Acetophenone	0.018	U	0.37	0.018	mg/Kg	☆	10/27/23 09:36	1	MDJ
Atrazine	0.022	U	0.15	0.022	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzaldehyde	0.062	U J	0.37	0.062	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzo[a]anthracene	6.5		0.037	0.028	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzo[a]pyrene	5.8		0.037	0.0099	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzo[b]fluoranthene	4.0		0.037	0.0096	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzo[g,h,i]perylene	2.1		0.37	0.011	mg/Kg	☆	10/27/23 09:36	1	MDJ
Benzo[k]fluoranthene	1.5		0.037	0.0073	mg/Kg	☆	10/27/23 09:36	1	MDJ
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	☆	10/27/23 09:36	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	☆	10/27/23 09:36	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.37	0.020	mg/Kg	☆	10/27/23 09:36	1	MDJ
Butyl benzyl phthalate	0.017	U	0.37	0.017	mg/Kg	☆	10/27/23 09:36	1	MDJ
Caprolactam	0.058	U	0.37	0.058	mg/Kg	☆	10/27/23 09:36	1	MDJ
Carbazole	1.7		0.37	0.014	mg/Kg	☆	10/27/23 09:36	1	MDJ
Chrysene	5.7		0.37	0.016	mg/Kg	☆	10/27/23 09:36	1	MDJ
Dibenz(a,h)anthracene	0.60		0.037	0.016	mg/Kg	☆	10/27/23 09:36	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(16.0-17.0)

Lab Sample ID: 460-291147-3

Date Collected: 10/25/23 11:39

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 88.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Dibenzofuran	1.7		0.37	0.012	mg/Kg	☼	10/27/23 09:36	1	MDJ
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	☼	10/27/23 09:36	1	MDJ
Dimethyl phthalate	0.085	U	0.37	0.085	mg/Kg	☼	10/27/23 09:36	1	MDJ
Di-n-butyl phthalate	0.082	J	0.37	0.014	mg/Kg	☼	10/27/23 09:36	1	MDJ
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	☼	10/27/23 09:36	1	MDJ
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	☼	10/27/23 09:36	1	MDJ
Hexachlorobutadiene	0.0079	U	0.075	0.0079	mg/Kg	☼	10/27/23 09:36	1	MDJ
Hexachlorocyclopentadiene	R 0.033	U *	0.37	0.033	mg/Kg	☼	10/27/23 09:36	1	MDJ
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	☼	10/27/23 09:36	1	MDJ
Indeno[1,2,3-cd]pyrene	2.2		0.037	0.015	mg/Kg	☼	10/27/23 09:36	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/27/23 09:36	1	MDJ
Nitrobenzene	0.021	U	0.037	0.021	mg/Kg	☼	10/27/23 09:36	1	MDJ
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☼	10/27/23 09:36	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.37	0.031	mg/Kg	☼	10/27/23 09:36	1	MDJ
Pentachlorophenol	0.076	U	0.30	0.076	mg/Kg	☼	10/27/23 09:36	1	MDJ
Phenol	0.014	U	0.37	0.014	mg/Kg	☼	10/27/23 09:36	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Pyridine, 2,4-dimethyl-	3.0	J N	mg/Kg	☼	3.16	108-47-4	10/27/23 09:36	1	MDJ
Benzene, 1-ethyl-2-methyl-	7.6	J N	mg/Kg	☼	3.47	611-14-3	10/27/23 09:36	1	MDJ
Unknown	4.2	J N	mg/Kg	☼	3.50	N/A	10/27/23 09:36	1	MDJ
Benzene, 1,2,3-trimethyl-	7.9	J N	mg/Kg	☼	3.76	526-73-8	10/27/23 09:36	1	MDJ
Indane	34	J N	mg/Kg	☼	4.11	496-11-7	10/27/23 09:36	1	MDJ
Indene	6.4	J N	mg/Kg	☼	4.18	95-13-6	10/27/23 09:36	1	MDJ
Benzene, 1-methyl-2-(1-methylethyl)-	3.7	J N	mg/Kg	☼	4.25	527-84-4	10/27/23 09:36	1	MDJ
1H-Indene, 2,3-dihydro-4-methyl-	5.3	J N	mg/Kg	☼	4.88	824-22-6	10/27/23 09:36	1	MDJ
2-Methylindene	7.9	J N	mg/Kg	☼	4.96	2177-47-1	10/27/23 09:36	1	MDJ
Benzene, (1-methyl-2-cyclopropen-1-yl)-	11	J N	mg/Kg	☼	4.99	65051-83-4	10/27/23 09:36	1	MDJ
2-Benzothiophene #	5.9	J N	mg/Kg	☼	5.29	270-82-6	10/27/23 09:36	1	MDJ
Unknown	6.4	J N	mg/Kg	☼	5.99	N/A	10/27/23 09:36	1	MDJ
Naphthalene, 1-methyl-	13	J N	mg/Kg	☼	6.03	90-12-0	10/27/23 09:36	1	MDJ
Naphthalene, 2-ethyl-	5.3	J N	mg/Kg	☼	6.47	939-27-5	10/27/23 09:36	1	MDJ
Naphthalene, 2,6-dimethyl-	5.6	J N	mg/Kg	☼	6.54	581-42-0	10/27/23 09:36	1	MDJ
Unknown	6.1	J N	mg/Kg	☼	6.62	N/A	10/27/23 09:36	1	MDJ
Naphthalene, 1,6-dimethyl-	3.3	J N	mg/Kg	☼	6.64	575-43-9	10/27/23 09:36	1	MDJ
Naphthalene, 2,3-dimethyl-	4.0	J N	mg/Kg	☼	6.72	581-40-8	10/27/23 09:36	1	MDJ
Phenanthrene, 2-methyl-	3.3	J N	mg/Kg	☼	8.88	2531-84-2	10/27/23 09:36	1	MDJ
Anthracene, 2-methyl-	3.7	J N	mg/Kg	☼	8.91	613-12-7	10/27/23 09:36	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	84		24 - 137	10/27/23 09:36	1	MDJ
2-Fluorobiphenyl	94		48 - 120	10/27/23 09:36	1	MDJ
2-Fluorophenol (Surr)	84		31 - 120	10/27/23 09:36	1	MDJ
Nitrobenzene-d5 (Surr)	118		38 - 120	10/27/23 09:36	1	MDJ
Phenol-d5 (Surr)	95		39 - 120	10/27/23 09:36	1	MDJ
Terphenyl-d14 (Surr)	106		25 - 126	10/27/23 09:36	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(16.0-17.0)

Lab Sample ID: 460-291147-3

Date Collected: 10/25/23 11:39

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 88.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	54	D	3.7	0.10	mg/Kg	☼	10/27/23 17:06	10	MDJ
Acenaphthene	28	D	3.7	0.11	mg/Kg	☼	10/27/23 17:06	10	MDJ
Anthracene	8.9	D	3.7	0.11	mg/Kg	☼	10/27/23 17:06	10	MDJ
Fluoranthene	10	D	3.7	0.13	mg/Kg	☼	10/27/23 17:06	10	MDJ
Fluorene	14	D	3.7	0.11	mg/Kg	☼	10/27/23 17:06	10	MDJ
Naphthalene	160	D	19	0.32	mg/Kg	☼	10/27/23 17:28	50	MDJ
Phenanthrene	34	D	3.7	0.15	mg/Kg	☼	10/27/23 17:06	10	MDJ
Pyrene	15	D	3.7	0.093	mg/Kg	☼	10/27/23 17:06	10	MDJ
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/27/23 17:06	10	MDJ
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/27/23 17:28	50	MDJ

Client Sample ID: SB-117(20.5-21.5)

Lab Sample ID: 460-291147-4

Date Collected: 10/25/23 12:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.026	U	0.093	0.026	mg/Kg	☼	10/31/23 08:57	50	MZS
1,1,2,2-Tetrachloroethane	0.018	U	0.093	0.018	mg/Kg	☼	10/31/23 08:57	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.032	U	0.093	0.032	mg/Kg	☼	10/31/23 08:57	50	MZS
1,1,2-Trichloroethane	0.019	U	0.093	0.019	mg/Kg	☼	10/31/23 08:57	50	MZS
1,1-Dichloroethane	0.022	U	0.093	0.022	mg/Kg	☼	10/31/23 08:57	50	MZS
1,1-Dichloroethene	0.025	U	0.093	0.025	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2,3-Trichlorobenzene	0.033	U	0.093	0.033	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2,4-Trichlorobenzene	0.025	U	0.093	0.025	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2-Dibromo-3-Chloropropane	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2-Dichlorobenzene	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2-Dichloroethane	0.023	U	0.093	0.023	mg/Kg	☼	10/31/23 08:57	50	MZS
1,2-Dichloropropane	0.017	U	0.093	0.017	mg/Kg	☼	10/31/23 08:57	50	MZS
1,3-Dichlorobenzene	0.031	U	0.093	0.031	mg/Kg	☼	10/31/23 08:57	50	MZS
1,4-Dichlorobenzene	0.031	U	0.093	0.031	mg/Kg	☼	10/31/23 08:57	50	MZS
1,4-Dioxane	2.6	U	4.6	2.6	mg/Kg	☼	10/31/23 08:57	50	MZS
2-Butanone (MEK)	0.20	U	0.46	0.20	mg/Kg	☼	10/31/23 08:57	50	MZS
2-Hexanone	0.11	U	0.46	0.11	mg/Kg	☼	10/31/23 08:57	50	MZS
4-Methyl-2-pentanone (MIBK)	0.12	U	0.46	0.12	mg/Kg	☼	10/31/23 08:57	50	MZS
Acetone	0.41	U	0.46	0.41	mg/Kg	☼	10/31/23 08:57	50	MZS
Benzene	1.4		0.093	0.019	mg/Kg	☼	10/31/23 08:57	50	MZS
Bromoform	0.017	U	0.093	0.017	mg/Kg	☼	10/31/23 08:57	50	MZS
Bromomethane	0.051	U	0.093	0.051	mg/Kg	☼	10/31/23 08:57	50	MZS
Carbon disulfide	0.063	U J	0.093	0.063	mg/Kg	☼	10/31/23 08:57	50	MZS
Carbon tetrachloride	0.031	U	0.093	0.031	mg/Kg	☼	10/31/23 08:57	50	MZS
Chlorobenzene	0.022	U	0.093	0.022	mg/Kg	☼	10/31/23 08:57	50	MZS
Chlorobromomethane	0.028	U	0.093	0.028	mg/Kg	☼	10/31/23 08:57	50	MZS
Chlorodibromomethane	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
Chloroethane	0.034	U	0.093	0.034	mg/Kg	☼	10/31/23 08:57	50	MZS
Chloroform	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
Chloromethane	0.037	U J	0.093	0.037	mg/Kg	☼	10/31/23 08:57	50	MZS
cis-1,2-Dichloroethene	0.024	U	0.093	0.024	mg/Kg	☼	10/31/23 08:57	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(20.5-21.5)

Lab Sample ID: 460-291147-4

Date Collected: 10/25/23 12:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
cis-1,3-Dichloropropene	0.021	U	0.093	0.021	mg/Kg	☼	10/31/23 08:57	50	MZS
Cyclohexane	0.024	U	0.093	0.024	mg/Kg	☼	10/31/23 08:57	50	MZS
Dichlorobromomethane	0.014	U	0.093	0.014	mg/Kg	☼	10/31/23 08:57	50	MZS
Dichlorodifluoromethane	0.029	U J	0.093	0.029	mg/Kg	☼	10/31/23 08:57	50	MZS
Ethylbenzene	4.5		0.093	0.028	mg/Kg	☼	10/31/23 08:57	50	MZS
Ethylene Dibromide	0.018	U	0.093	0.018	mg/Kg	☼	10/31/23 08:57	50	MZS
Isopropylbenzene	0.47		0.093	0.030	mg/Kg	☼	10/31/23 08:57	50	MZS
Methyl acetate	0.073	U	0.46	0.073	mg/Kg	☼	10/31/23 08:57	50	MZS
Methyl tert-butyl ether	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
Methylcyclohexane	0.067	U	0.093	0.067	mg/Kg	☼	10/31/23 08:57	50	MZS
Methylene Chloride	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
m-Xylene & p-Xylene	3.9		0.093	0.026	mg/Kg	☼	10/31/23 08:57	50	MZS
o-Xylene	1.7		0.093	0.030	mg/Kg	☼	10/31/23 08:57	50	MZS
Styrene	1.2		0.093	0.016	mg/Kg	☼	10/31/23 08:57	50	MZS
Tetrachloroethene	0.033	U	0.093	0.033	mg/Kg	☼	10/31/23 08:57	50	MZS
Toluene	3.3		0.093	0.023	mg/Kg	☼	10/31/23 08:57	50	MZS
trans-1,2-Dichloroethene	0.017	U	0.093	0.017	mg/Kg	☼	10/31/23 08:57	50	MZS
trans-1,3-Dichloropropene	0.021	U	0.093	0.021	mg/Kg	☼	10/31/23 08:57	50	MZS
Trichloroethene	0.020	U	0.093	0.020	mg/Kg	☼	10/31/23 08:57	50	MZS
Trichlorofluoromethane	0.030	U	0.093	0.030	mg/Kg	☼	10/31/23 08:57	50	MZS
Vinyl chloride	0.019	U	0.093	0.019	mg/Kg	☼	10/31/23 08:57	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	3.0	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 08:57	50	MZS
Indane	10	J N	mg/Kg	☼	12.22	496-11-7	10/31/23 08:57	50	MZS
Indene	8.8	J N	mg/Kg	☼	12.40	95-13-6	10/31/23 08:57	50	MZS
1,4-Dihydronaphthalene	2.5	J N	mg/Kg	☼	13.23	612-17-9	10/31/23 08:57	50	MZS
Benzene, (1-methyl-2-cyclopropen-1-yl)-	3.8	J N	mg/Kg	☼	13.29	65051-83-4	10/31/23 08:57	50	MZS
Naphthalene	54	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 08:57	50	MZS
Naphthalene, 2-methyl-	20	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 08:57	50	MZS
Naphthalene, 1-methyl-	12	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 08:57	50	MZS
Naphthalene, 2,6-dimethyl-	2.7	J N	mg/Kg	☼	15.27	581-42-0	10/31/23 08:57	50	MZS
Naphthalene, 2,3-dimethyl-	2.2	J N	mg/Kg	☼	15.43	581-40-8	10/31/23 08:57	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	114		68 - 150	10/31/23 08:57	50	MZS
4-Bromofluorobenzene	98		70 - 141	10/31/23 08:57	50	MZS
Dibromofluoromethane (Surr)	102		68 - 142	10/31/23 08:57	50	MZS
Toluene-d8 (Surr)	102		73 - 147	10/31/23 08:57	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.99		0.35	0.012	mg/Kg	☼	10/27/23 09:58	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/27/23 09:58	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	10/27/23 09:58	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	10/27/23 09:58	1	MDJ
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☼	10/27/23 09:58	1	MDJ
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	10/27/23 09:58	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/27/23 09:58	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(20.5-21.5)

Lab Sample ID: 460-291147-4

Date Collected: 10/25/23 12:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 94.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	✱	10/27/23 09:58	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	✱	10/27/23 09:58	1	MDJ
2,4-Dinitrotoluene	0.038	U	0.071	0.038	mg/Kg	✱	10/27/23 09:58	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.071	0.025	mg/Kg	✱	10/27/23 09:58	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	✱	10/27/23 09:58	1	MDJ
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	✱	10/27/23 09:58	1	MDJ
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	✱	10/27/23 09:58	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	✱	10/27/23 09:58	1	MDJ
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	✱	10/27/23 09:58	1	MDJ
3-Nitroaniline	0.083	U	0.35	0.083	mg/Kg	✱	10/27/23 09:58	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	✱	10/27/23 09:58	1	MDJ
4-Nitrophenol	0.057	U	0.71	0.057	mg/Kg	✱	10/27/23 09:58	1	MDJ
Acenaphthene	3.8		0.35	0.0099	mg/Kg	✱	10/27/23 09:58	1	MDJ
Acenaphthylene	1.8		0.35	0.010	mg/Kg	✱	10/27/23 09:58	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	✱	10/27/23 09:58	1	MDJ
Anthracene	1.8		0.35	0.011	mg/Kg	✱	10/27/23 09:58	1	MDJ
Atrazine	0.021	U	0.14	0.021	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzaldehyde	0.058	U J	0.35	0.058	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzo[a]anthracene	0.89		0.035	0.026	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzo[a]pyrene	0.75		0.035	0.0093	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzo[b]fluoranthene	0.55		0.035	0.0090	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzo[g,h,i]perylene	0.22 J		0.35	0.010	mg/Kg	✱	10/27/23 09:58	1	MDJ
Benzo[k]fluoranthene	0.20		0.035	0.0068	mg/Kg	✱	10/27/23 09:58	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	✱	10/27/23 09:58	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	✱	10/27/23 09:58	1	MDJ
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	✱	10/27/23 09:58	1	MDJ
Caprolactam	0.054	U	0.35	0.054	mg/Kg	✱	10/27/23 09:58	1	MDJ
Carbazole	0.13 J		0.35	0.013	mg/Kg	✱	10/27/23 09:58	1	MDJ
Chrysene	0.80		0.35	0.015	mg/Kg	✱	10/27/23 09:58	1	MDJ
Dibenz(a,h)anthracene	0.075		0.035	0.015	mg/Kg	✱	10/27/23 09:58	1	MDJ
Dibenzofuran	0.27 J		0.35	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	✱	10/27/23 09:58	1	MDJ
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	✱	10/27/23 09:58	1	MDJ
Di-n-butyl phthalate	0.057 J		0.35	0.013	mg/Kg	✱	10/27/23 09:58	1	MDJ
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	✱	10/27/23 09:58	1	MDJ
Fluoranthene	1.8		0.35	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ
Fluorene	2.5		0.35	0.010	mg/Kg	✱	10/27/23 09:58	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	✱	10/27/23 09:58	1	MDJ
Hexachlorobutadiene	0.0074	U	0.071	0.0074	mg/Kg	✱	10/27/23 09:58	1	MDJ
Hexachlorocyclopentadiene	R 0.031	U *	0.35	0.031	mg/Kg	✱	10/27/23 09:58	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	✱	10/27/23 09:58	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-117(20.5-21.5)

Lab Sample ID: 460-291147-4

Date Collected: 10/25/23 12:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 94.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Indeno[1,2,3-cd]pyrene	0.24		0.035	0.014	mg/Kg	☼	10/27/23 09:58	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/27/23 09:58	1	MDJ
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	10/27/23 09:58	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	10/27/23 09:58	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	10/27/23 09:58	1	MDJ
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	10/27/23 09:58	1	MDJ
Phenanthrene	6.1		0.35	0.014	mg/Kg	☼	10/27/23 09:58	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 09:58	1	MDJ
Pyrene	2.7		0.35	0.0087	mg/Kg	☼	10/27/23 09:58	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Styrene	0.83	J N	mg/Kg	☼	2.85	100-42-5	10/27/23 09:58	1	MDJ
Benzene, 1,2,3-trimethyl-	1.6	J N	mg/Kg	☼	3.75	526-73-8	10/27/23 09:58	1	MDJ
Indane	2.5	J N	mg/Kg	☼	4.10	496-11-7	10/27/23 09:58	1	MDJ
Indene	3.6	J N	mg/Kg	☼	4.18	95-13-6	10/27/23 09:58	1	MDJ
Unknown	1.4	J N	mg/Kg	☼	4.96	N/A	10/27/23 09:58	1	MDJ
2-Methylindene	1.8	J N	mg/Kg	☼	4.99	2177-47-1	10/27/23 09:58	1	MDJ
2-Benzothiophene #	0.90	J N	mg/Kg	☼	5.27	270-82-6	10/27/23 09:58	1	MDJ
Naphthalene, 1-methyl-	5.2	J N	mg/Kg	☼	6.01	90-12-0	10/27/23 09:58	1	MDJ
Naphthalene, 2-ethyl-	1.3	J N	mg/Kg	☼	6.47	939-27-5	10/27/23 09:58	1	MDJ
Naphthalene, 2,6-dimethyl-	1.7	J N	mg/Kg	☼	6.53	581-42-0	10/27/23 09:58	1	MDJ
Naphthalene, 1,3-dimethyl-	1.9	J N	mg/Kg	☼	6.60	575-41-7	10/27/23 09:58	1	MDJ
Unknown	1.1	J N	mg/Kg	☼	6.63	N/A	10/27/23 09:58	1	MDJ
Naphthalene, 1,2-dimethyl-	1.2	J N	mg/Kg	☼	6.72	573-98-8	10/27/23 09:58	1	MDJ
Unknown	0.81	J N	mg/Kg	☼	7.68	N/A	10/27/23 09:58	1	MDJ
Dibenzothiophene	0.67	J N	mg/Kg	☼	8.28	132-65-0	10/27/23 09:58	1	MDJ
Phenanthrene, 1-methyl-	1.1	J N	mg/Kg	☼	8.87	832-69-9	10/27/23 09:58	1	MDJ
Phenanthrene, 2-methyl-	1.2	J N	mg/Kg	☼	8.90	2531-84-2	10/27/23 09:58	1	MDJ
Unknown	0.75	J N	mg/Kg	☼	9.00	N/A	10/27/23 09:58	1	MDJ
Naphthalene, 2-phenyl-	0.63	J N	mg/Kg	☼	9.17	612-94-2	10/27/23 09:58	1	MDJ
Unknown	0.82	J N	mg/Kg	☼	9.65	N/A	10/27/23 09:58	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	87		24 - 137	10/27/23 09:58	1	MDJ
2-Fluorobiphenyl	95		48 - 120	10/27/23 09:58	1	MDJ
2-Fluorophenol (Surr)	85		31 - 120	10/27/23 09:58	1	MDJ
Nitrobenzene-d5 (Surr)	94		38 - 120	10/27/23 09:58	1	MDJ
Phenol-d5 (Surr)	94		39 - 120	10/27/23 09:58	1	MDJ
Terphenyl-d14 (Surr)	102		25 - 126	10/27/23 09:58	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	12	D	3.5	0.097	mg/Kg	☼	10/27/23 17:51	10	MDJ
Naphthalene	27	D	3.5	0.060	mg/Kg	☼	10/27/23 17:51	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/27/23 17:51	10	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(15.5-16.5)

Lab Sample ID: 460-291147-5

Date Collected: 10/25/23 10:04

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.028	U	0.10	0.028	mg/Kg	✱	10/31/23 22:19	50	MZS
1,1,2,2-Tetrachloroethane	0.020	U	0.10	0.020	mg/Kg	✱	10/31/23 22:19	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.034	U	0.10	0.034	mg/Kg	✱	10/31/23 22:19	50	MZS
1,1,2-Trichloroethane	0.021	U	0.10	0.021	mg/Kg	✱	10/31/23 22:19	50	MZS
1,1-Dichloroethane	0.024	U	0.10	0.024	mg/Kg	✱	10/31/23 22:19	50	MZS
1,1-Dichloroethene	0.027	U	0.10	0.027	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2,3-Trichlorobenzene	0.035	U J	0.10	0.035	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2,4-Trichlorobenzene	0.027	U J	0.10	0.027	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2-Dibromo-3-Chloropropane	0.021	U	0.10	0.021	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2-Dichlorobenzene	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2-Dichloroethane	0.025	U	0.10	0.025	mg/Kg	✱	10/31/23 22:19	50	MZS
1,2-Dichloropropane	0.018	U	0.10	0.018	mg/Kg	✱	10/31/23 22:19	50	MZS
1,3-Dichlorobenzene	0.033	U	0.10	0.033	mg/Kg	✱	10/31/23 22:19	50	MZS
1,4-Dichlorobenzene	0.034	U	0.10	0.034	mg/Kg	✱	10/31/23 22:19	50	MZS
1,4-Dioxane	2.8	U	5.0	2.8	mg/Kg	✱	10/31/23 22:19	50	MZS
2-Butanone (MEK)	0.22	U	0.50	0.22	mg/Kg	✱	10/31/23 22:19	50	MZS
2-Hexanone	0.11	U	0.50	0.11	mg/Kg	✱	10/31/23 22:19	50	MZS
4-Methyl-2-pentanone (MIBK)	0.13	U	0.50	0.13	mg/Kg	✱	10/31/23 22:19	50	MZS
Acetone	1.2		0.50	0.44	mg/Kg	✱	10/31/23 22:19	50	MZS
Benzene	0.13		0.10	0.020	mg/Kg	✱	10/31/23 22:19	50	MZS
Bromoform	0.018	U	0.10	0.018	mg/Kg	✱	10/31/23 22:19	50	MZS
Bromomethane	0.056	U	0.10	0.056	mg/Kg	✱	10/31/23 22:19	50	MZS
Carbon disulfide	0.11	J	0.10	0.068	mg/Kg	✱	10/31/23 22:19	50	MZS
Carbon tetrachloride	0.033	U	0.10	0.033	mg/Kg	✱	10/31/23 22:19	50	MZS
Chlorobenzene	0.024	U	0.10	0.024	mg/Kg	✱	10/31/23 22:19	50	MZS
Chlorobromomethane	0.030	U	0.10	0.030	mg/Kg	✱	10/31/23 22:19	50	MZS
Chlorodibromomethane	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS
Chloroethane	0.037	U	0.10	0.037	mg/Kg	✱	10/31/23 22:19	50	MZS
Chloroform	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS
Chloromethane	0.040	U	0.10	0.040	mg/Kg	✱	10/31/23 22:19	50	MZS
cis-1,2-Dichloroethene	0.026	U	0.10	0.026	mg/Kg	✱	10/31/23 22:19	50	MZS
cis-1,3-Dichloropropene	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS
Cyclohexane	0.19		0.10	0.026	mg/Kg	✱	10/31/23 22:19	50	MZS
Dichlorobromomethane	0.015	U	0.10	0.015	mg/Kg	✱	10/31/23 22:19	50	MZS
Dichlorodifluoromethane	0.031	U J	0.10	0.031	mg/Kg	✱	10/31/23 22:19	50	MZS
Ethylbenzene	19		0.10	0.030	mg/Kg	✱	10/31/23 22:19	50	MZS
Ethylene Dibromide	0.019	U	0.10	0.019	mg/Kg	✱	10/31/23 22:19	50	MZS
Isopropylbenzene	4.6		0.10	0.032	mg/Kg	✱	10/31/23 22:19	50	MZS
Methyl acetate	0.079	U	0.50	0.079	mg/Kg	✱	10/31/23 22:19	50	MZS
Methyl tert-butyl ether	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS
Methylcyclohexane	0.95		0.10	0.073	mg/Kg	✱	10/31/23 22:19	50	MZS
Methylene Chloride	0.021	U	0.10	0.021	mg/Kg	✱	10/31/23 22:19	50	MZS
m-Xylene & p-Xylene	1.6		0.10	0.028	mg/Kg	✱	10/31/23 22:19	50	MZS
o-Xylene	6.1		0.10	0.032	mg/Kg	✱	10/31/23 22:19	50	MZS
Styrene	0.017	U	0.10	0.017	mg/Kg	✱	10/31/23 22:19	50	MZS
Tetrachloroethene	0.036	U	0.10	0.036	mg/Kg	✱	10/31/23 22:19	50	MZS
Toluene	0.086	J	0.10	0.025	mg/Kg	✱	10/31/23 22:19	50	MZS
trans-1,2-Dichloroethene	0.018	U	0.10	0.018	mg/Kg	✱	10/31/23 22:19	50	MZS
trans-1,3-Dichloropropene	0.022	U	0.10	0.022	mg/Kg	✱	10/31/23 22:19	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(15.5-16.5)

Lab Sample ID: 460-291147-5

Date Collected: 10/25/23 10:04

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.022	U	0.10	0.022	mg/Kg	☼	10/31/23 22:19	50	MZS
Trichlorofluoromethane	0.032	U	0.10	0.032	mg/Kg	☼	10/31/23 22:19	50	MZS
Vinyl chloride	0.020	U	0.10	0.020	mg/Kg	☼	10/31/23 22:19	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	9.6	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 22:19	50	MZS
Indane	46	J N	mg/Kg	☼	12.22	496-11-7	10/31/23 22:19	50	MZS
Benzene, 1,3-diethyl-	3.7	J N	mg/Kg	☼	12.25	141-93-5	10/31/23 22:19	50	MZS
Benzene, 1-ethyl-2,3-dimethyl-	4.0	J N	mg/Kg	☼	12.62	933-98-2	10/31/23 22:19	50	MZS
1H-Indene, 2,3-dihydro-4-methyl-	5.8	J N	mg/Kg	☼	13.10	824-22-6	10/31/23 22:19	50	MZS
Unknown	4.9	J N	mg/Kg	☼	13.23	N/A	10/31/23 22:19	50	MZS
2-Methylindene	10	J N	mg/Kg	☼	13.29	2177-47-1	10/31/23 22:19	50	MZS
Naphthalene	75	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 22:19	50	MZS
Naphthalene, 2-methyl-	14	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 22:19	50	MZS
Naphthalene, 1-methyl-	7.6	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 22:19	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	109		68 - 150	10/31/23 22:19	50	MZS
4-Bromofluorobenzene	100		70 - 141	10/31/23 22:19	50	MZS
Dibromofluoromethane (Surr)	100		68 - 142	10/31/23 22:19	50	MZS
Toluene-d8 (Surr)	102		73 - 147	10/31/23 22:19	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4,6-Trichlorophenol	0.046	U	0.14	0.046	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4-Dichlorophenol	0.023	U	0.14	0.023	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,4-Dinitrotoluene	0.038	U	0.072	0.038	mg/Kg	☼	10/27/23 10:21	1	MDJ
2,6-Dinitrotoluene	0.026	U	0.072	0.026	mg/Kg	☼	10/27/23 10:21	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	10/27/23 10:21	1	MDJ
2-Chlorophenol	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☼	10/27/23 10:21	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	10/27/23 10:21	1	MDJ
3,3'-Dichlorobenzidine	0.054	U	0.14	0.054	mg/Kg	☼	10/27/23 10:21	1	MDJ
3-Nitroaniline	0.084	U	0.35	0.084	mg/Kg	☼	10/27/23 10:21	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Chloroaniline	0.063	U	0.35	0.063	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Nitroaniline	0.041	U	0.35	0.041	mg/Kg	☼	10/27/23 10:21	1	MDJ
4-Nitrophenol	0.058	U	0.72	0.058	mg/Kg	☼	10/27/23 10:21	1	MDJ
Acenaphthylene	6.7		0.35	0.010	mg/Kg	☼	10/27/23 10:21	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(15.5-16.5)

Lab Sample ID: 460-291147-5

Date Collected: 10/25/23 10:04

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	10/27/23 10:21	1	MDJ
Atrazine	0.021	U	0.14	0.021	mg/Kg	☼	10/27/23 10:21	1	MDJ
Benzaldehyde	0.059	U J	0.35	0.059	mg/Kg	☼	10/27/23 10:21	1	MDJ
Benzo[g,h,i]perylene	5.3		0.35	0.010	mg/Kg	☼	10/27/23 10:21	1	MDJ
Benzo[k]fluoranthene	4.9		0.035	0.0070	mg/Kg	☼	10/27/23 10:21	1	MDJ
Bis(2-chloroethoxy)methane	0.028	U	0.35	0.028	mg/Kg	☼	10/27/23 10:21	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	10/27/23 10:21	1	MDJ
Bis(2-ethylhexyl) phthalate	0.019	U	0.35	0.019	mg/Kg	☼	10/27/23 10:21	1	MDJ
Butyl benzyl phthalate	0.017	U	0.35	0.017	mg/Kg	☼	10/27/23 10:21	1	MDJ
Caprolactam	0.055	U	0.35	0.055	mg/Kg	☼	10/27/23 10:21	1	MDJ
Carbazole	1.2		0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ
Dibenz(a,h)anthracene	1.7		0.035	0.015	mg/Kg	☼	10/27/23 10:21	1	MDJ
Dibenzofuran	3.7		0.35	0.012	mg/Kg	☼	10/27/23 10:21	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	10/27/23 10:21	1	MDJ
Dimethyl phthalate	0.081	U	0.35	0.081	mg/Kg	☼	10/27/23 10:21	1	MDJ
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ
Di-n-octyl phthalate	0.019	U	0.35	0.019	mg/Kg	☼	10/27/23 10:21	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	10/27/23 10:21	1	MDJ
Hexachlorobutadiene	0.0075	U	0.072	0.0075	mg/Kg	☼	10/27/23 10:21	1	MDJ
Hexachlorocyclopentadiene	R 0.031	U *	0.35	0.031	mg/Kg	☼	10/27/23 10:21	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	10/27/23 10:21	1	MDJ
Indeno[1,2,3-cd]pyrene	5.9		0.035	0.014	mg/Kg	☼	10/27/23 10:21	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	10/27/23 10:21	1	MDJ
Nitrobenzene	0.020	U	0.035	0.020	mg/Kg	☼	10/27/23 10:21	1	MDJ
N-Nitrosodi-n-propylamine	0.026	U	0.035	0.026	mg/Kg	☼	10/27/23 10:21	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	10/27/23 10:21	1	MDJ
Pentachlorophenol	0.073	U	0.28	0.073	mg/Kg	☼	10/27/23 10:21	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:21	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,3,5-trimethyl-	18	J N	mg/Kg	☼	3.76	108-67-8	10/27/23 10:21	1	MDJ
Indane	41	J N	mg/Kg	☼	4.12	496-11-7	10/27/23 10:21	1	MDJ
1H-Indene, 2,3-dihydro-4-methyl-	9.9	J N	mg/Kg	☼	4.88	824-22-6	10/27/23 10:21	1	MDJ
Unknown	16	J N	mg/Kg	☼	4.96	N/A	10/27/23 10:21	1	MDJ
2-Methylindene	24	J N	mg/Kg	☼	5.00	2177-47-1	10/27/23 10:21	1	MDJ
1H-Indene, 1,3-dimethyl-	8.9	J N	mg/Kg	☼	5.67	2177-48-2	10/27/23 10:21	1	MDJ
Naphthalene, 1-methyl-	62	J N	mg/Kg	☼	6.05	90-12-0	10/27/23 10:21	1	MDJ
Naphthalene, 2-ethyl-	15	J N	mg/Kg	☼	6.49	939-27-5	10/27/23 10:21	1	MDJ
Naphthalene, 2,6-dimethyl-	14	J N	mg/Kg	☼	6.56	581-42-0	10/27/23 10:21	1	MDJ
Naphthalene, 1,6-dimethyl-	15	J N	mg/Kg	☼	6.63	575-43-9	10/27/23 10:21	1	MDJ
Unknown	8.2	J N	mg/Kg	☼	6.66	N/A	10/27/23 10:21	1	MDJ
Naphthalene, 2,3-dimethyl-	11	J N	mg/Kg	☼	6.74	581-40-8	10/27/23 10:21	1	MDJ
Naphthalene, 1,6,7-trimethyl-	7.0	J N	mg/Kg	☼	7.06	2245-38-7	10/27/23 10:21	1	MDJ
Unknown	7.9	J N	mg/Kg	☼	7.46	N/A	10/27/23 10:21	1	MDJ
Anthracene, 2-methyl-	10	J N	mg/Kg	☼	8.90	613-12-7	10/27/23 10:21	1	MDJ
Phenanthrene, 2-methyl-	9.4	J N	mg/Kg	☼	8.94	2531-84-2	10/27/23 10:21	1	MDJ
Unknown	8.6	J N	mg/Kg	☼	9.02	N/A	10/27/23 10:21	1	MDJ
Naphthalene, 2-phenyl-	7.9	J N	mg/Kg	☼	9.19	612-94-2	10/27/23 10:21	1	MDJ
Unknown	7.7	J N	mg/Kg	☼	9.69	N/A	10/27/23 10:21	1	MDJ
Perylene	9.5	J N	mg/Kg	☼	12.73	198-55-0	10/27/23 10:21	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-121(15.5-16.5)

Lab Sample ID: 460-291147-5

Date Collected: 10/25/23 10:04

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	10/27/23 10:21	1	MDJ
2-Fluorobiphenyl	89		48 - 120	10/27/23 10:21	1	MDJ
2-Fluorophenol (Surr)	84		31 - 120	10/27/23 10:21	1	MDJ
Nitrobenzene-d5 (Surr)	148	S1+	38 - 120	10/27/23 10:21	1	MDJ
Phenol-d5 (Surr)	91		39 - 120	10/27/23 10:21	1	MDJ
Terphenyl-d14 (Surr)	112		25 - 126	10/27/23 10:21	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	16	D	3.5	0.12	mg/Kg	✱	10/27/23 18:13	10	MDJ
Acenaphthene	84	D	3.5	0.10	mg/Kg	✱	10/27/23 18:13	10	MDJ
Anthracene	39	D	3.5	0.11	mg/Kg	✱	10/27/23 18:13	10	MDJ
Benzo[a]anthracene	23	D	0.35	0.27	mg/Kg	✱	10/27/23 18:13	10	MDJ
Benzo[a]pyrene	19	D	0.35	0.094	mg/Kg	✱	10/27/23 18:13	10	MDJ
Benzo[b]fluoranthene	15	D	0.35	0.092	mg/Kg	✱	10/27/23 18:13	10	MDJ
Chrysene	20	D	3.5	0.15	mg/Kg	✱	10/27/23 18:13	10	MDJ
Fluoranthene	41	D	3.5	0.12	mg/Kg	✱	10/27/23 18:13	10	MDJ
Fluorene	46	D	3.5	0.10	mg/Kg	✱	10/27/23 18:13	10	MDJ
Pyrene	62	D	3.5	0.088	mg/Kg	✱	10/27/23 18:13	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/27/23 18:13	10	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	180	D	35	0.99	mg/Kg	✱	10/28/23 06:38	100	YAH
Naphthalene	460	D	35	0.61	mg/Kg	✱	10/28/23 06:38	100	YAH
Phenanthrene	200	D	35	1.4	mg/Kg	✱	10/28/23 06:38	100	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/28/23 06:38	100	YAH

Client Sample ID: SB-119(11.0-12.0)

Lab Sample ID: 460-291147-6

Date Collected: 10/25/23 13:15

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 92.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	37		3.6	0.12	mg/Kg	✱	10/28/23 19:56	10	YAH
1,2,4,5-Tetrachlorobenzene	0.11	U	3.6	0.11	mg/Kg	✱	10/28/23 19:56	10	YAH
2,2'-oxybis[1-chloropropane]	0.21	U	3.6	0.21	mg/Kg	✱	10/28/23 19:56	10	YAH
2,3,4,6-Tetrachlorophenol	0.24	U	3.6	0.24	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4,5-Trichlorophenol	0.36	U	3.6	0.36	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4,6-Trichlorophenol	0.46	U	1.4	0.46	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4-Dichlorophenol	0.23	U	1.4	0.23	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4-Dimethylphenol	0.42	U	3.6	0.42	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4-Dinitrophenol	1.7	U	2.9	1.7	mg/Kg	✱	10/28/23 19:56	10	YAH
2,4-Dinitrotoluene	0.38	U	0.72	0.38	mg/Kg	✱	10/28/23 19:56	10	YAH
2,6-Dinitrotoluene	0.26	U	0.72	0.26	mg/Kg	✱	10/28/23 19:56	10	YAH
2-Chloronaphthalene	0.16	U	3.6	0.16	mg/Kg	✱	10/28/23 19:56	10	YAH
2-Chlorophenol	0.13	U	3.6	0.13	mg/Kg	✱	10/28/23 19:56	10	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-119(11.0-12.0)

Lab Sample ID: 460-291147-6

Date Collected: 10/25/23 13:15

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 92.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylphenol	0.13	U	3.6	0.13	mg/Kg	✱	10/28/23 19:56	10	YAH
2-Nitroaniline	0.27	U	3.6	0.27	mg/Kg	✱	10/28/23 19:56	10	YAH
2-Nitrophenol	0.36	U	3.6	0.36	mg/Kg	✱	10/28/23 19:56	10	YAH
3,3'-Dichlorobenzidine	0.54	U	1.4	0.54	mg/Kg	✱	10/28/23 19:56	10	YAH
3-Nitroaniline	1.7	J	3.6	0.84	mg/Kg	✱	10/28/23 19:56	10	YAH
4,6-Dinitro-2-methylphenol	1.5	U	2.9	1.5	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Bromophenyl phenyl ether	0.14	U	3.6	0.14	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Chloro-3-methylphenol	0.20	U	3.6	0.20	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Chloroaniline	0.63	U	3.6	0.63	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Chlorophenyl phenyl ether	0.13	U	3.6	0.13	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Methylphenol	0.22	U	3.6	0.22	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Nitroaniline	0.41	U	3.6	0.41	mg/Kg	✱	10/28/23 19:56	10	YAH
4-Nitrophenol	0.58	U	7.2	0.58	mg/Kg	✱	10/28/23 19:56	10	YAH
Acenaphthene	68		3.6	0.10	mg/Kg	✱	10/28/23 19:56	10	YAH
Acetophenone	0.17	U	3.6	0.17	mg/Kg	✱	10/28/23 19:56	10	YAH
Anthracene	63		3.6	0.11	mg/Kg	✱	10/28/23 19:56	10	YAH
Atrazine	0.21	U	1.4	0.21	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzaldehyde	0.59	U J	3.6	0.59	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzo[a]anthracene	35		0.36	0.27	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzo[a]pyrene	29		0.36	0.095	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzo[b]fluoranthene	23		0.36	0.092	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzo[g,h,i]perylene	7.4		3.6	0.10	mg/Kg	✱	10/28/23 19:56	10	YAH
Benzo[k]fluoranthene	8.2		0.36	0.070	mg/Kg	✱	10/28/23 19:56	10	YAH
Bis(2-chloroethoxy)methane	0.28	U	3.6	0.28	mg/Kg	✱	10/28/23 19:56	10	YAH
Bis(2-chloroethyl)ether	0.12	U	0.36	0.12	mg/Kg	✱	10/28/23 19:56	10	YAH
Bis(2-ethylhexyl) phthalate	0.19	U	3.6	0.19	mg/Kg	✱	10/28/23 19:56	10	YAH
Butyl benzyl phthalate	0.17	U	3.6	0.17	mg/Kg	✱	10/28/23 19:56	10	YAH
Caprolactam	0.55	U	3.6	0.55	mg/Kg	✱	10/28/23 19:56	10	YAH
Carbazole	2.5	J	3.6	0.14	mg/Kg	✱	10/28/23 19:56	10	YAH
Chrysene	32		3.6	0.15	mg/Kg	✱	10/28/23 19:56	10	YAH
Dibenz(a,h)anthracene	2.8		0.36	0.15	mg/Kg	✱	10/28/23 19:56	10	YAH
Dibenzofuran	10		3.6	0.12	mg/Kg	✱	10/28/23 19:56	10	YAH
Diethyl phthalate	0.11	U	3.6	0.11	mg/Kg	✱	10/28/23 19:56	10	YAH
Dimethyl phthalate	0.81	U	3.6	0.81	mg/Kg	✱	10/28/23 19:56	10	YAH
Di-n-butyl phthalate	0.13	U	3.6	0.13	mg/Kg	✱	10/28/23 19:56	10	YAH
Di-n-octyl phthalate	0.19	U	3.6	0.19	mg/Kg	✱	10/28/23 19:56	10	YAH
Fluoranthene	58		3.6	0.12	mg/Kg	✱	10/28/23 19:56	10	YAH
Fluorene	83		3.6	0.10	mg/Kg	✱	10/28/23 19:56	10	YAH
Hexachlorobenzene	0.17	U	0.36	0.17	mg/Kg	✱	10/28/23 19:56	10	YAH
Hexachlorobutadiene	0.076	U	0.72	0.076	mg/Kg	✱	10/28/23 19:56	10	YAH
Hexachlorocyclopentadiene	R 0.34	U *	3.6	0.31	mg/Kg	✱	10/28/23 19:56	10	YAH
Hexachloroethane	0.12	U	0.36	0.12	mg/Kg	✱	10/28/23 19:56	10	YAH
Indeno[1,2,3-cd]pyrene	8.6		0.36	0.14	mg/Kg	✱	10/28/23 19:56	10	YAH
Isophorone	1.0	U	1.4	1.0	mg/Kg	✱	10/28/23 19:56	10	YAH
Nitrobenzene	0.20	U	0.36	0.20	mg/Kg	✱	10/28/23 19:56	10	YAH
N-Nitrosodi-n-propylamine	0.26	U	0.36	0.26	mg/Kg	✱	10/28/23 19:56	10	YAH
N-Nitrosodiphenylamine	0.29	U	3.6	0.29	mg/Kg	✱	10/28/23 19:56	10	YAH
Pentachlorophenol	0.73	U	2.9	0.73	mg/Kg	✱	10/28/23 19:56	10	YAH
Phenol	0.13	U	3.6	0.13	mg/Kg	✱	10/28/23 19:56	10	YAH

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-119(11.0-12.0)

Lab Sample ID: 460-291147-6

Date Collected: 10/25/23 13:15

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 92.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-2-methyl-	26	J N	mg/Kg	☼	3.49	611-14-3	10/28/23 19:56	10	YAH
Indane	67	J N	mg/Kg	☼	4.10	496-11-7	10/28/23 19:56	10	YAH
Indene	220	J N	mg/Kg	☼	4.19	95-13-6	10/28/23 19:56	10	YAH
Benzene, (2-methyl-1-propenyl)-	26	J N	mg/Kg	☼	4.54	768-49-0	10/28/23 19:56	10	YAH
Benzene, (1-methyl-2-cyclopropen-1-yl)-	77	J N	mg/Kg	☼	4.96	65051-83-4	10/28/23 19:56	10	YAH
Naphthalene, 1-methyl-	110	J N	mg/Kg	☼	6.02	90-12-0	10/28/23 19:56	10	YAH
Naphthalene, 2-ethyl-	28	J N	mg/Kg	☼	6.47	939-27-5	10/28/23 19:56	10	YAH
Naphthalene, 2,6-dimethyl-	52	J N	mg/Kg	☼	6.54	581-42-0	10/28/23 19:56	10	YAH
Naphthalene, 1,6-dimethyl-	54	J N	mg/Kg	☼	6.61	575-43-9	10/28/23 19:56	10	YAH
Naphthalene, 1,5-dimethyl-	31	J N	mg/Kg	☼	6.64	571-61-9	10/28/23 19:56	10	YAH
Naphthalene, 1,3-dimethyl-	31	J N	mg/Kg	☼	6.73	575-41-7	10/28/23 19:56	10	YAH
9H-Fluorene, 3-methyl-	39	J N	mg/Kg	☼	8.01	2523-39-9	10/28/23 19:56	10	YAH
Dibenzothiophene	36	J N	mg/Kg	☼	8.28	132-65-0	10/28/23 19:56	10	YAH
Anthracene, 1-methyl-	30	J N	mg/Kg	☼	8.96	610-48-0	10/28/23 19:56	10	YAH
4H-Cyclopenta[def]phenanthrene	97	J N	mg/Kg	☼	8.99	203-64-5	10/28/23 19:56	10	YAH
Phenanthrene, 2-methyl-	48	J N	mg/Kg	☼	9.01	2531-84-2	10/28/23 19:56	10	YAH
2-Phenylnaphthalene	38	J N	mg/Kg	☼	9.17	35465-71-5	10/28/23 19:56	10	YAH
Phenanthrene, 2,5-dimethyl-	35	J N	mg/Kg	☼	9.42	3674-66-6	10/28/23 19:56	10	YAH
Phenanthrene, 3,6-dimethyl-	27	J N	mg/Kg	☼	9.45	1576-67-6	10/28/23 19:56	10	YAH
Unknown	50	J N	mg/Kg	☼	9.66	N/A	10/28/23 19:56	10	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	61		24 - 137	10/28/23 19:56	10	YAH
2-Fluorobiphenyl	78		48 - 120	10/28/23 19:56	10	YAH
2-Fluorophenol (Surr)	57		31 - 120	10/28/23 19:56	10	YAH
Nitrobenzene-d5 (Surr)	77		38 - 120	10/28/23 19:56	10	YAH
Phenol-d5 (Surr)	66		39 - 120	10/28/23 19:56	10	YAH
Terphenyl-d14 (Surr)	88		25 - 126	10/28/23 19:56	10	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	490	D	71	2.0	mg/Kg	☼	10/28/23 20:18	200	YAH
Acenaphthylene	160	D	71	2.0	mg/Kg	☼	10/28/23 20:18	200	YAH
Naphthalene	1000	D	71	1.2	mg/Kg	☼	10/28/23 20:18	200	YAH
Phenanthrene	280	D	71	2.9	mg/Kg	☼	10/28/23 20:18	200	YAH
Pyrene	120	D	71	1.8	mg/Kg	☼	10/28/23 20:18	200	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/28/23 20:18	200	YAH

Client Sample ID: SB-120(13.0-14.0)

Lab Sample ID: 460-291147-7

Date Collected: 10/24/23 13:42

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.094	U	0.34	0.094	mg/Kg	☼	10/31/23 22:44	200	MZS
1,1,2,2-Tetrachloroethane	0.067	U	0.34	0.067	mg/Kg	☼	10/31/23 22:44	200	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	U	0.34	0.11	mg/Kg	☼	10/31/23 22:44	200	MZS
1,1,2-Trichloroethane	0.069	U	0.34	0.069	mg/Kg	☼	10/31/23 22:44	200	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(13.0-14.0)

Lab Sample ID: 460-291147-7

Date Collected: 10/24/23 13:42

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1-Dichloroethane	0.081	U	0.34	0.081	mg/Kg	✱	10/31/23 22:44	200	MZS
1,1-Dichloroethene	0.089	U	0.34	0.089	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2,3-Trichlorobenzene	0.12	U J	0.34	0.12	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2,4-Trichlorobenzene	0.091	U J	0.34	0.091	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2-Dibromo-3-Chloropropane	0.071	U	0.34	0.071	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2-Dichlorobenzene	0.074	U	0.34	0.074	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2-Dichloroethane	0.084	U	0.34	0.084	mg/Kg	✱	10/31/23 22:44	200	MZS
1,2-Dichloropropane	0.061	U	0.34	0.061	mg/Kg	✱	10/31/23 22:44	200	MZS
1,3-Dichlorobenzene	0.11	U	0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
1,4-Dichlorobenzene	0.11	U	0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
1,4-Dioxane	9.5	U	17	9.5	mg/Kg	✱	10/31/23 22:44	200	MZS
2-Butanone (MEK)	0.74	U	1.7	0.74	mg/Kg	✱	10/31/23 22:44	200	MZS
2-Hexanone	0.38	U	1.7	0.38	mg/Kg	✱	10/31/23 22:44	200	MZS
4-Methyl-2-pentanone (MIBK)	0.44	U	1.7	0.44	mg/Kg	✱	10/31/23 22:44	200	MZS
Acetone	3.1		1.7	1.5	mg/Kg	✱	10/31/23 22:44	200	MZS
Benzene	0.68		0.34	0.068	mg/Kg	✱	10/31/23 22:44	200	MZS
Bromoform	0.061	U	0.34	0.061	mg/Kg	✱	10/31/23 22:44	200	MZS
Bromomethane	0.19	U	0.34	0.19	mg/Kg	✱	10/31/23 22:44	200	MZS
Carbon disulfide	0.23	U J	0.34	0.23	mg/Kg	✱	10/31/23 22:44	200	MZS
Carbon tetrachloride	0.11	U	0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
Chlorobenzene	0.081	U	0.34	0.081	mg/Kg	✱	10/31/23 22:44	200	MZS
Chlorobromomethane	0.10	U	0.34	0.10	mg/Kg	✱	10/31/23 22:44	200	MZS
Chlorodibromomethane	0.074	U	0.34	0.074	mg/Kg	✱	10/31/23 22:44	200	MZS
Chloroethane	0.12	U	0.34	0.12	mg/Kg	✱	10/31/23 22:44	200	MZS
Chloroform	0.074	U	0.34	0.074	mg/Kg	✱	10/31/23 22:44	200	MZS
Chloromethane	0.14	U	0.34	0.14	mg/Kg	✱	10/31/23 22:44	200	MZS
cis-1,2-Dichloroethene	0.087	U	0.34	0.087	mg/Kg	✱	10/31/23 22:44	200	MZS
cis-1,3-Dichloropropene	0.075	U	0.34	0.075	mg/Kg	✱	10/31/23 22:44	200	MZS
Cyclohexane	0.087	U	0.34	0.087	mg/Kg	✱	10/31/23 22:44	200	MZS
Dichlorobromomethane	0.050	U	0.34	0.050	mg/Kg	✱	10/31/23 22:44	200	MZS
Dichlorodifluoromethane	0.10	U J	0.34	0.10	mg/Kg	✱	10/31/23 22:44	200	MZS
Ethylbenzene	130		0.34	0.10	mg/Kg	✱	10/31/23 22:44	200	MZS
Ethylene Dibromide	0.064	U	0.34	0.064	mg/Kg	✱	10/31/23 22:44	200	MZS
Isopropylbenzene	15		0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
Methyl acetate	0.26	U	1.7	0.26	mg/Kg	✱	10/31/23 22:44	200	MZS
Methyl tert-butyl ether	0.072	U	0.34	0.072	mg/Kg	✱	10/31/23 22:44	200	MZS
Methylcyclohexane	2.1	U J	0.34	0.24	mg/Kg	✱	10/31/23 22:44	200	MZS
Methylene Chloride	0.071	U	0.34	0.071	mg/Kg	✱	10/31/23 22:44	200	MZS
m-Xylene & p-Xylene	30		0.34	0.094	mg/Kg	✱	10/31/23 22:44	200	MZS
o-Xylene	43		0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
Styrene	0.057	U	0.34	0.057	mg/Kg	✱	10/31/23 22:44	200	MZS
Tetrachloroethene	0.12	U	0.34	0.12	mg/Kg	✱	10/31/23 22:44	200	MZS
Toluene	0.56		0.34	0.084	mg/Kg	✱	10/31/23 22:44	200	MZS
trans-1,2-Dichloroethene	0.061	U	0.34	0.061	mg/Kg	✱	10/31/23 22:44	200	MZS
trans-1,3-Dichloropropene	0.075	U	0.34	0.075	mg/Kg	✱	10/31/23 22:44	200	MZS
Trichloroethene	0.074	U	0.34	0.074	mg/Kg	✱	10/31/23 22:44	200	MZS
Trichlorofluoromethane	0.11	U J	0.34	0.11	mg/Kg	✱	10/31/23 22:44	200	MZS
Vinyl chloride	0.067	U	0.34	0.067	mg/Kg	✱	10/31/23 22:44	200	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(13.0-14.0)

Lab Sample ID: 460-291147-7

Date Collected: 10/24/23 13:42

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 96.6

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-4-methyl-	14	J N	mg/Kg	☼	11.05	622-96-8	10/31/23 22:44	200	MZS
Benzene, 1,2,4-trimethyl-	28	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 22:44	200	MZS
Indane	250	J N	mg/Kg	☼	12.23	496-11-7	10/31/23 22:44	200	MZS
Benzene, 1-methyl-2-(1-methylethyl)-	12	J N	mg/Kg	☼	12.62	527-84-4	10/31/23 22:44	200	MZS
1H-Indene, 2,3-dihydro-5-methyl-	18	J N	mg/Kg	☼	13.10	874-35-1	10/31/23 22:44	200	MZS
2-Methylindene	16	J N	mg/Kg	☼	13.24	2177-47-1	10/31/23 22:44	200	MZS
Benzene,	30	J N	mg/Kg	☼	13.29	65051-83-4	10/31/23 22:44	200	MZS
(1-methyl-2-cyclopropen-1-yl)-									
Naphthalene	280	J N	mg/Kg	☼	13.59	91-20-3	10/31/23 22:44	200	MZS
Naphthalene, 2-methyl-	46	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 22:44	200	MZS
Naphthalene, 1-methyl-	29	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 22:44	200	MZS
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	104		68 - 150				10/31/23 22:44	200	MZS
4-Bromofluorobenzene	98		70 - 141				10/31/23 22:44	200	MZS
Dibromofluoromethane (Surr)	94		68 - 142				10/31/23 22:44	200	MZS
Toluene-d8 (Surr)	103		73 - 147				10/31/23 22:44	200	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	22		3.4	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
1,2,4,5-Tetrachlorobenzene	0.11	U	3.4	0.11	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,2'-oxybis[1-chloropropane]	0.20	U	3.4	0.20	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,3,4,6-Tetrachlorophenol	0.23	U	3.4	0.23	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4,5-Trichlorophenol	0.35	U	3.4	0.35	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4,6-Trichlorophenol	0.44	U	1.4	0.44	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4-Dichlorophenol	0.22	U	1.4	0.22	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4-Dimethylphenol	0.41	U	3.4	0.41	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4-Dinitrophenol	R 1.7	UF1	2.8	1.7	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,4-Dinitrotoluene	0.37	UF1 UJ	0.69	0.37	mg/Kg	☼	10/27/23 15:58	10	MDJ
2,6-Dinitrotoluene	0.25	UF1 UJ	0.69	0.25	mg/Kg	☼	10/27/23 15:58	10	MDJ
2-Chloronaphthalene	0.16	U	3.4	0.16	mg/Kg	☼	10/27/23 15:58	10	MDJ
2-Chlorophenol	0.12	U	3.4	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
2-Methylphenol	0.13	U	3.4	0.13	mg/Kg	☼	10/27/23 15:58	10	MDJ
2-Nitroaniline	0.26	U	3.4	0.26	mg/Kg	☼	10/27/23 15:58	10	MDJ
2-Nitrophenol	0.34	UF1 UJ	3.4	0.34	mg/Kg	☼	10/27/23 15:58	10	MDJ
3,3'-Dichlorobenzidine	0.52	U	1.4	0.52	mg/Kg	☼	10/27/23 15:58	10	MDJ
3-Nitroaniline	0.81	U	3.4	0.81	mg/Kg	☼	10/27/23 15:58	10	MDJ
4,6-Dinitro-2-methylphenol	R 1.4	UF1	2.8	1.4	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Bromophenyl phenyl ether	0.14	U	3.4	0.14	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Chloro-3-methylphenol	0.19	U	3.4	0.19	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Chloroaniline	0.61	U	3.4	0.61	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Chlorophenyl phenyl ether	0.12	U	3.4	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Methylphenol	0.21	U	3.4	0.21	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Nitroaniline	0.39	U	3.4	0.39	mg/Kg	☼	10/27/23 15:58	10	MDJ
4-Nitrophenol	0.56	U	6.9	0.56	mg/Kg	☼	10/27/23 15:58	10	MDJ
Acenaphthylene	12		3.4	0.098	mg/Kg	☼	10/27/23 15:58	10	MDJ
Acetophenone	0.17	U	3.4	0.17	mg/Kg	☼	10/27/23 15:58	10	MDJ
Anthracene	47		3.4	0.10	mg/Kg	☼	10/27/23 15:58	10	MDJ
Atrazine	0.20	UF1	1.4	0.20	mg/Kg	☼	10/27/23 15:58	10	MDJ
Benzaldehyde	0.57	UF1 UJ	3.4	0.57	mg/Kg	☼	10/27/23 15:58	10	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(13.0-14.0)

Lab Sample ID: 460-291147-7

Date Collected: 10/24/23 13:42

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 96.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[a]anthracene	25		0.34	0.26	mg/Kg	☼	10/27/23 15:58	10	MDJ
Benzo[a]pyrene	21		0.34	0.091	mg/Kg	☼	10/27/23 15:58	10	MDJ
Benzo[b]fluoranthene	17		0.34	0.089	mg/Kg	☼	10/27/23 15:58	10	MDJ
Benzo[g,h,i]perylene	5.7		3.4	0.10	mg/Kg	☼	10/27/23 15:58	10	MDJ
Benzo[k]fluoranthene	5.7	F1 J	0.34	0.067	mg/Kg	☼	10/27/23 15:58	10	MDJ
Bis(2-chloroethoxy)methane	0.27	U	3.4	0.27	mg/Kg	☼	10/27/23 15:58	10	MDJ
Bis(2-chloroethyl)ether	0.12	U	0.34	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
Bis(2-ethylhexyl) phthalate	0.18	U	3.4	0.18	mg/Kg	☼	10/27/23 15:58	10	MDJ
Butyl benzyl phthalate	0.16	U	3.4	0.16	mg/Kg	☼	10/27/23 15:58	10	MDJ
Caprolactam	0.53	U F1	3.4	0.53	mg/Kg	☼	10/27/23 15:58	10	MDJ
Carbazole	1.1	J	3.4	0.13	mg/Kg	☼	10/27/23 15:58	10	MDJ
Chrysene	23		3.4	0.14	mg/Kg	☼	10/27/23 15:58	10	MDJ
Dibenz(a,h)anthracene	1.9		0.34	0.15	mg/Kg	☼	10/27/23 15:58	10	MDJ
Dibenzofuran	7.1		3.4	0.11	mg/Kg	☼	10/27/23 15:58	10	MDJ
Diethyl phthalate	0.11	U	3.4	0.11	mg/Kg	☼	10/27/23 15:58	10	MDJ
Dimethyl phthalate	0.78	U	3.4	0.78	mg/Kg	☼	10/27/23 15:58	10	MDJ
Di-n-butyl phthalate	0.13	U	3.4	0.13	mg/Kg	☼	10/27/23 15:58	10	MDJ
Di-n-octyl phthalate	0.18	U	3.4	0.18	mg/Kg	☼	10/27/23 15:58	10	MDJ
Fluoranthene	48		3.4	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
Fluorene	58		3.4	0.10	mg/Kg	☼	10/27/23 15:58	10	MDJ
Hexachlorobenzene	0.16	U	0.34	0.16	mg/Kg	☼	10/27/23 15:58	10	MDJ
Hexachlorobutadiene	0.073	U	0.69	0.073	mg/Kg	☼	10/27/23 15:58	10	MDJ
Hexachlorocyclopentadiene	0.30	U * F1	3.4	0.30	mg/Kg	☼	10/27/23 15:58	10	MDJ
Hexachloroethane	0.12	U F1 UJ	0.34	0.12	mg/Kg	☼	10/27/23 15:58	10	MDJ
Indeno[1,2,3-cd]pyrene	6.3	F1 J	0.34	0.13	mg/Kg	☼	10/27/23 15:58	10	MDJ
Isophorone	0.99	U	1.4	0.99	mg/Kg	☼	10/27/23 15:58	10	MDJ
Nitrobenzene	0.19	U	0.34	0.19	mg/Kg	☼	10/27/23 15:58	10	MDJ
N-Nitrosodi-n-propylamine	0.25	U	0.34	0.25	mg/Kg	☼	10/27/23 15:58	10	MDJ
N-Nitrosodiphenylamine	0.28	U F1	3.4	0.28	mg/Kg	☼	10/27/23 15:58	10	MDJ
Pentachlorophenol	0.70	U	2.8	0.70	mg/Kg	☼	10/27/23 15:58	10	MDJ
Phenol	0.13	U	3.4	0.13	mg/Kg	☼	10/27/23 15:58	10	MDJ
Pyrene	74		3.4	0.085	mg/Kg	☼	10/27/23 15:58	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	190	J N	mg/Kg	☼	4.11	N/A	10/27/23 15:58	10	MDJ
1H-Indene, 2,3-dihydro-4-methyl-	21	J N	mg/Kg	☼	4.88	824-22-6	10/27/23 15:58	10	MDJ
Benzene, (1-methyl-2-cyclopropen-1-yl)-	32	J N	mg/Kg	☼	4.96	65051-83-4	10/27/23 15:58	10	MDJ
2-Methylindene	44	J N	mg/Kg	☼	4.99	2177-47-1	10/27/23 15:58	10	MDJ
Benzo[b]thiophene	18	J N	mg/Kg	☼	5.29	95-15-8	10/27/23 15:58	10	MDJ
1-Methylnaphthalene	130	E JN	mg/Kg	☼	6.02	90-12-0	10/27/23 15:58	10	MDJ
Naphthalene, 1-ethyl-	37	J N	mg/Kg	☼	6.47	1127-76-0	10/27/23 15:58	10	MDJ
1,3-Dimethylnaphthalene	55		mg/Kg	☼	6.62	575-41-7	10/27/23 15:58	10	MDJ
Naphthalene, 2,6-dimethyl-	21	J N	mg/Kg	☼	6.64	581-42-0	10/27/23 15:58	10	MDJ
Naphthalene, 2,3-dimethyl-	27	J N	mg/Kg	☼	6.73	581-40-8	10/27/23 15:58	10	MDJ
Unknown	16	J N	mg/Kg	☼	7.45	N/A	10/27/23 15:58	10	MDJ
Tridecane, 5-propyl-	15	J N	mg/Kg	☼	7.89	55045-11-9	10/27/23 15:58	10	MDJ
9H-Fluorene, 2-methyl-	16	J N	mg/Kg	☼	8.02	1430-97-3	10/27/23 15:58	10	MDJ
Dibenzothiophene	19	J N	mg/Kg	☼	8.29	132-65-0	10/27/23 15:58	10	MDJ
n-Octadecane	15	JN	mg/Kg	☼	8.34	593-45-3	10/27/23 15:58	10	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(13.0-14.0)

Lab Sample ID: 460-291147-7

Date Collected: 10/24/23 13:42

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 96.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Anthracene, 1-methyl-	15	J N	mg/Kg	⊛	8.96	610-48-0	10/27/23 15:58	10	MDJ
4H-Cyclopenta[def]phenanthrene	53	J N	mg/Kg	⊛	8.99	203-64-5	10/27/23 15:58	10	MDJ
Phenanthrene, 2-methyl-	22	J N	mg/Kg	⊛	9.02	2531-84-2	10/27/23 15:58	10	MDJ
Naphthalene, 1-phenyl-	19	J N	mg/Kg	⊛	9.18	605-02-7	10/27/23 15:58	10	MDJ
Unknown	28	J N	mg/Kg	⊛	9.67	N/A	10/27/23 15:58	10	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	85		24 - 137	10/27/23 15:58	10	MDJ
2-Fluorobiphenyl	91		48 - 120	10/27/23 15:58	10	MDJ
2-Fluorophenol (Surr)	62		31 - 120	10/27/23 15:58	10	MDJ
Nitrobenzene-d5 (Surr)	77		38 - 120	10/27/23 15:58	10	MDJ
Phenol-d5 (Surr)	77		39 - 120	10/27/23 15:58	10	MDJ
Terphenyl-d14 (Surr)	106		25 - 126	10/27/23 15:58	10	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	200	D	34	0.96	mg/Kg	⊛	10/27/23 17:28	100	MDJ
Acenaphthene	150	D	34	0.97	mg/Kg	⊛	10/27/23 17:28	100	MDJ
Naphthalene	670	D	34	0.59	mg/Kg	⊛	10/27/23 17:28	100	MDJ
Phenanthrene	200	D	34	1.4	mg/Kg	⊛	10/27/23 17:28	100	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/27/23 17:28	100	MDJ

Client Sample ID: SB-115(5.0-6.0)

Lab Sample ID: 460-291147-8

Date Collected: 10/24/23 13:05

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.022	U	0.080	0.022	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,1,2,2-Tetrachloroethane	0.016	U	0.080	0.016	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.027	U	0.080	0.027	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,1,2-Trichloroethane	0.016	U	0.080	0.016	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,1-Dichloroethane	0.019	U	0.080	0.019	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,1-Dichloroethene	0.021	U	0.080	0.021	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2,3-Trichlorobenzene	0.028	U	0.080	0.028	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2,4-Trichlorobenzene	0.021	U	0.080	0.021	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2-Dibromo-3-Chloropropane	0.017	U	0.080	0.017	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2-Dichlorobenzene	0.018	U	0.080	0.018	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2-Dichloroethane	0.020	U	0.080	0.020	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,2-Dichloropropane	0.014	U	0.080	0.014	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,3-Dichlorobenzene	0.026	U	0.080	0.026	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,4-Dichlorobenzene	0.027	U	0.080	0.027	mg/Kg	⊛	10/31/23 06:27	50	MZS
1,4-Dioxane	2.2	U	4.0	2.2	mg/Kg	⊛	10/31/23 06:27	50	MZS
2-Butanone (MEK)	0.18	U	0.40	0.18	mg/Kg	⊛	10/31/23 06:27	50	MZS
2-Hexanone	0.090	U	0.40	0.090	mg/Kg	⊛	10/31/23 06:27	50	MZS
4-Methyl-2-pentanone (MIBK)	0.10	U	0.40	0.10	mg/Kg	⊛	10/31/23 06:27	50	MZS
Acetone	0.35	U	0.40	0.35	mg/Kg	⊛	10/31/23 06:27	50	MZS
Benzene	0.96		0.080	0.016	mg/Kg	⊛	10/31/23 06:27	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(5.0-6.0)

Lab Sample ID: 460-291147-8

Date Collected: 10/24/23 13:05

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bromoform	0.014	U	0.080	0.014	mg/Kg	☼	10/31/23 06:27	50	MZS
Bromomethane	0.044	U	0.080	0.044	mg/Kg	☼	10/31/23 06:27	50	MZS
Carbon disulfide	0.054	U J	0.080	0.054	mg/Kg	☼	10/31/23 06:27	50	MZS
Carbon tetrachloride	0.026	U	0.080	0.026	mg/Kg	☼	10/31/23 06:27	50	MZS
Chlorobenzene	0.019	U	0.080	0.019	mg/Kg	☼	10/31/23 06:27	50	MZS
Chlorobromomethane	0.024	U	0.080	0.024	mg/Kg	☼	10/31/23 06:27	50	MZS
Chlorodibromomethane	0.018	U	0.080	0.018	mg/Kg	☼	10/31/23 06:27	50	MZS
Chloroethane	0.029	U	0.080	0.029	mg/Kg	☼	10/31/23 06:27	50	MZS
Chloroform	0.018	U	0.080	0.018	mg/Kg	☼	10/31/23 06:27	50	MZS
Chloromethane	0.032	U J	0.080	0.032	mg/Kg	☼	10/31/23 06:27	50	MZS
cis-1,2-Dichloroethene	0.021	U	0.080	0.021	mg/Kg	☼	10/31/23 06:27	50	MZS
cis-1,3-Dichloropropene	0.018	U	0.080	0.018	mg/Kg	☼	10/31/23 06:27	50	MZS
Cyclohexane	0.021	U	0.080	0.021	mg/Kg	☼	10/31/23 06:27	50	MZS
Dichlorobromomethane	0.012	U	0.080	0.012	mg/Kg	☼	10/31/23 06:27	50	MZS
Dichlorodifluoromethane	0.025	U J	0.080	0.025	mg/Kg	☼	10/31/23 06:27	50	MZS
Ethylbenzene	0.17		0.080	0.024	mg/Kg	☼	10/31/23 06:27	50	MZS
Ethylene Dibromide	0.015	U	0.080	0.015	mg/Kg	☼	10/31/23 06:27	50	MZS
Isopropylbenzene	0.025	U	0.080	0.025	mg/Kg	☼	10/31/23 06:27	50	MZS
Methyl acetate	0.18	J	0.40	0.062	mg/Kg	☼	10/31/23 06:27	50	MZS
Methyl tert-butyl ether	0.017	U	0.080	0.017	mg/Kg	☼	10/31/23 06:27	50	MZS
Methylcyclohexane	0.058	U	0.080	0.058	mg/Kg	☼	10/31/23 06:27	50	MZS
Methylene Chloride	0.017	U	0.080	0.017	mg/Kg	☼	10/31/23 06:27	50	MZS
m-Xylene & p-Xylene	0.37		0.080	0.022	mg/Kg	☼	10/31/23 06:27	50	MZS
o-Xylene	0.18		0.080	0.025	mg/Kg	☼	10/31/23 06:27	50	MZS
Styrene	0.41		0.080	0.014	mg/Kg	☼	10/31/23 06:27	50	MZS
Tetrachloroethene	0.029	U	0.080	0.029	mg/Kg	☼	10/31/23 06:27	50	MZS
Toluene	0.88		0.080	0.020	mg/Kg	☼	10/31/23 06:27	50	MZS
trans-1,2-Dichloroethene	0.014	U	0.080	0.014	mg/Kg	☼	10/31/23 06:27	50	MZS
trans-1,3-Dichloropropene	0.018	U	0.080	0.018	mg/Kg	☼	10/31/23 06:27	50	MZS
Trichloroethene	0.018	U	0.080	0.018	mg/Kg	☼	10/31/23 06:27	50	MZS
Trichlorofluoromethane	0.025	U	0.080	0.025	mg/Kg	☼	10/31/23 06:27	50	MZS
Vinyl chloride	0.016	U	0.080	0.016	mg/Kg	☼	10/31/23 06:27	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indene	0.41	J N	mg/Kg	☼	12.39	95-13-6	10/31/23 06:27	50	MZS
Naphthalene	2.4	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 06:27	50	MZS
Naphthalene, 2-methyl-	1.5	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 06:27	50	MZS
Naphthalene, 1-methyl-	2.0	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 06:27	50	MZS
Naphthalene, 1-ethyl-	0.61	J N	mg/Kg	☼	15.15	1127-76-0	10/31/23 06:27	50	MZS
Naphthalene, 1,6-dimethyl-	0.74	J N	mg/Kg	☼	15.27	575-43-9	10/31/23 06:27	50	MZS
Naphthalene, 2,3-dimethyl-	0.60	J N	mg/Kg	☼	15.43	581-40-8	10/31/23 06:27	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	106		68 - 150	10/31/23 06:27	50	MZS
4-Bromofluorobenzene	96		70 - 141	10/31/23 06:27	50	MZS
Dibromofluoromethane (Surr)	94		68 - 142	10/31/23 06:27	50	MZS
Toluene-d8 (Surr)	98		73 - 147	10/31/23 06:27	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(5.0-6.0)

Lab Sample ID: 460-291147-8

Date Collected: 10/24/23 13:05

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.2		0.33	0.012	mg/Kg	✱	10/27/23 15:13	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	✱	10/27/23 15:13	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Methylnaphthalene	2.5		0.33	0.0093	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	✱	10/27/23 15:13	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	✱	10/27/23 15:13	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	✱	10/27/23 15:13	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	10/27/23 15:13	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Methylphenol	0.037	J	0.33	0.021	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	10/27/23 15:13	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	✱	10/27/23 15:13	1	MDJ
Acenaphthene	8.0		0.33	0.0095	mg/Kg	✱	10/27/23 15:13	1	MDJ
Acetophenone	0.097	J	0.33	0.016	mg/Kg	✱	10/27/23 15:13	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	10/27/23 15:13	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	10/27/23 15:13	1	MDJ
Benzo[k]fluoranthene	7.3		0.033	0.0065	mg/Kg	✱	10/27/23 15:13	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	10/27/23 15:13	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	10/27/23 15:13	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 15:13	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	10/27/23 15:13	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	10/27/23 15:13	1	MDJ
Carbazole	0.16	J	0.33	0.013	mg/Kg	✱	10/27/23 15:13	1	MDJ
Dibenz(a,h)anthracene	3.2		0.033	0.014	mg/Kg	✱	10/27/23 15:13	1	MDJ
Dibenzofuran	0.58		0.33	0.011	mg/Kg	✱	10/27/23 15:13	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	10/27/23 15:13	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	✱	10/27/23 15:13	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	10/27/23 15:13	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 15:13	1	MDJ
Fluorene	6.6		0.33	0.0097	mg/Kg	✱	10/27/23 15:13	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	10/27/23 15:13	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	10/27/23 15:13	1	MDJ
Hexachlorocyclopentadiene	R ~~0.029~~	~~U *~~	~~0.33~~	~~0.029~~	~~mg/Kg~~	~~✱~~	~~10/27/23 15:13~~	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	10/27/23 15:13	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(5.0-6.0)

Lab Sample ID: 460-291147-8

Date Collected: 10/24/23 13:05

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	10/27/23 15:13	1	MDJ
Naphthalene	4.1		0.33	0.0058	mg/Kg	☼	10/27/23 15:13	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	10/27/23 15:13	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	10/27/23 15:13	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	10/27/23 15:13	1	MDJ
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	10/27/23 15:13	1	MDJ
Phenol	0.029	J	0.33	0.012	mg/Kg	☼	10/27/23 15:13	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Phenanthrene, 2-methyl-	4.7	J N	mg/Kg	☼	8.92	2531-84-2	10/27/23 15:13	1	MDJ
4H-Cyclopenta[def]phenanthrene	7.8	J N	mg/Kg	☼	9.01	203-64-5	10/27/23 15:13	1	MDJ
Phenanthrene, 2,5-dimethyl-	4.3	J N	mg/Kg	☼	9.43	3674-66-6	10/27/23 15:13	1	MDJ
Cyclopenta(def)phenanthrenone	4.9	J N	mg/Kg	☼	9.53	5737-13-3	10/27/23 15:13	1	MDJ
Unknown	5.1	J N	mg/Kg	☼	9.68	N/A	10/27/23 15:13	1	MDJ
Unknown	9.8	J N	mg/Kg	☼	10.03	N/A	10/27/23 15:13	1	MDJ
Unknown	11	J N	mg/Kg	☼	10.12	N/A	10/27/23 15:13	1	MDJ
Fluoranthene, 2-methyl-	11	J N	mg/Kg	☼	10.14	33543-31-6	10/27/23 15:13	1	MDJ
11H-Benzo[b]fluorene	8.5	J N	mg/Kg	☼	10.21	243-17-4	10/27/23 15:13	1	MDJ
Unknown	9.7	J N	mg/Kg	☼	10.24	N/A	10/27/23 15:13	1	MDJ
Pyrene, 1-methyl-	13	J N	mg/Kg	☼	10.33	2381-21-7	10/27/23 15:13	1	MDJ
Unknown	12	J N	mg/Kg	☼	10.36	N/A	10/27/23 15:13	1	MDJ
Benzo[b]naphtho[2,1-d]thiophene	5.4	J N	mg/Kg	☼	10.78	239-35-0	10/27/23 15:13	1	MDJ
Benzo[c]phenanthrene	5.6	J N	mg/Kg	☼	10.81	195-19-7	10/27/23 15:13	1	MDJ
7H-Benz[de]anthracen-7-one	7.9	J N	mg/Kg	☼	11.26	82-05-3	10/27/23 15:13	1	MDJ
Chrysene, 6-methyl-	9.8	J N	mg/Kg	☼	11.56	1705-85-7	10/27/23 15:13	1	MDJ
Unknown	4.5	J N	mg/Kg	☼	11.68	N/A	10/27/23 15:13	1	MDJ
Unknown	6.3	J N	mg/Kg	☼	12.53	N/A	10/27/23 15:13	1	MDJ
Benzo[e]pyrene	14	J N	mg/Kg	☼	12.76	192-97-2	10/27/23 15:13	1	MDJ
Unknown	6.5	J N	mg/Kg	☼	13.48	N/A	10/27/23 15:13	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	94		24 - 137	10/27/23 15:13	1	MDJ
2-Fluorobiphenyl	95		48 - 120	10/27/23 15:13	1	MDJ
2-Fluorophenol (Surr)	89		31 - 120	10/27/23 15:13	1	MDJ
Nitrobenzene-d5 (Surr)	94		38 - 120	10/27/23 15:13	1	MDJ
Phenol-d5 (Surr)	95		39 - 120	10/27/23 15:13	1	MDJ
Terphenyl-d14 (Surr)	133	S1+	25 - 126	10/27/23 15:13	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthylene	15	D	3.3	0.095	mg/Kg	☼	10/28/23 07:01	10	YAH
Anthracene	12	D	3.3	0.10	mg/Kg	☼	10/28/23 07:01	10	YAH
Benzo[a]anthracene	21	D	0.33	0.25	mg/Kg	☼	10/28/23 07:01	10	YAH
Benzo[a]pyrene	31	D	0.33	0.089	mg/Kg	☼	10/28/23 07:01	10	YAH
Benzo[b]fluoranthene	24	D	0.33	0.086	mg/Kg	☼	10/28/23 07:01	10	YAH
Benzo[g,h,i]perylene	9.8	D	3.3	0.098	mg/Kg	☼	10/28/23 07:01	10	YAH
Chrysene	21	D	3.3	0.14	mg/Kg	☼	10/28/23 07:01	10	YAH
Fluoranthene	25	D	3.3	0.12	mg/Kg	☼	10/28/23 07:01	10	YAH
Indeno[1,2,3-cd]pyrene	12	D	0.33	0.13	mg/Kg	☼	10/28/23 07:01	10	YAH
Phenanthrene	27	D	3.3	0.14	mg/Kg	☼	10/28/23 07:01	10	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(5.0-6.0)

Lab Sample ID: 460-291147-8

Date Collected: 10/24/23 13:05

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Pyrene	40	D	3.3	0.083	mg/Kg	☆	10/28/23 07:01	10	YAH
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	10/28/23 07:01	10	YAH

Client Sample ID: SB-115(6.5-7.5)

Lab Sample ID: 460-291147-9

Date Collected: 10/24/23 13:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/02/23 19:32	1	MZS
1,1,2,2-Tetrachloroethane	0.00019	U	0.00087	0.00019	mg/Kg	☆	11/02/23 19:32	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00087	0.00026	mg/Kg	☆	11/02/23 19:32	1	MZS
1,1,2-Trichloroethane	0.00016	U J	0.00087	0.00016	mg/Kg	☆	11/02/23 19:32	1	MZS
1,1-Dichloroethane	0.00018	U	0.00087	0.00018	mg/Kg	☆	11/02/23 19:32	1	MZS
1,1-Dichloroethene	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2,3-Trichlorobenzene	0.00016	U	0.00087	0.00016	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2,4-Trichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2-Dibromo-3-Chloropropane	0.00040	U	0.00087	0.00040	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2-Dichloroethane	0.00026	U	0.00087	0.00026	mg/Kg	☆	11/02/23 19:32	1	MZS
1,2-Dichloropropane	0.00037	U	0.00087	0.00037	mg/Kg	☆	11/02/23 19:32	1	MZS
1,3-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	☆	11/02/23 19:32	1	MZS
1,4-Dichlorobenzene	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/02/23 19:32	1	MZS
1,4-Dioxane	0.0080	U	0.087	0.0080	mg/Kg	☆	11/02/23 19:32	1	MZS
2-Butanone (MEK)	0.0095		0.0044	0.00032	mg/Kg	☆	11/02/23 19:32	1	MZS
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	☆	11/02/23 19:32	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	☆	11/02/23 19:32	1	MZS
Acetone	0.036	J	0.0052	0.0050	mg/Kg	☆	11/02/23 19:32	1	MZS
Benzene	0.00024	J	0.00087	0.00023	mg/Kg	☆	11/02/23 19:32	1	MZS
Bromoform	0.00037	U	0.00087	0.00037	mg/Kg	☆	11/02/23 19:32	1	MZS
Bromomethane	0.00087	U	0.0017	0.00087	mg/Kg	☆	11/02/23 19:32	1	MZS
Carbon disulfide	0.00062	J	0.00087	0.00023	mg/Kg	☆	11/02/23 19:32	1	MZS
Carbon tetrachloride	0.00034	U	0.00087	0.00034	mg/Kg	☆	11/02/23 19:32	1	MZS
Chlorobenzene	0.00015	U	0.00087	0.00015	mg/Kg	☆	11/02/23 19:32	1	MZS
Chlorobromomethane	0.00025	U	0.00087	0.00025	mg/Kg	☆	11/02/23 19:32	1	MZS
Chlorodibromomethane	0.00017	U	0.00087	0.00017	mg/Kg	☆	11/02/23 19:32	1	MZS
Chloroethane	0.00046	U	0.00087	0.00046	mg/Kg	☆	11/02/23 19:32	1	MZS
Chloroform	0.00085	U	0.00087	0.00085	mg/Kg	☆	11/02/23 19:32	1	MZS
Chloromethane	0.00038	U J	0.00087	0.00038	mg/Kg	☆	11/02/23 19:32	1	MZS
cis-1,2-Dichloroethene	0.00031	U	0.00087	0.00031	mg/Kg	☆	11/02/23 19:32	1	MZS
cis-1,3-Dichloropropene	0.00024	U	0.00087	0.00024	mg/Kg	☆	11/02/23 19:32	1	MZS
Cyclohexane	0.00019	U	0.00087	0.00019	mg/Kg	☆	11/02/23 19:32	1	MZS
Dichlorobromomethane	0.00022	U	0.00087	0.00022	mg/Kg	☆	11/02/23 19:32	1	MZS
Dichlorodifluoromethane	0.00030	U	0.00087	0.00030	mg/Kg	☆	11/02/23 19:32	1	MZS
Ethylbenzene	0.0048		0.00087	0.00017	mg/Kg	☆	11/02/23 19:32	1	MZS
Ethylene Dibromide	0.00016	U	0.00087	0.00016	mg/Kg	☆	11/02/23 19:32	1	MZS
Isopropylbenzene	0.0033		0.00087	0.00025	mg/Kg	☆	11/02/23 19:32	1	MZS
Methyl acetate	0.0038	U	0.0044	0.0038	mg/Kg	☆	11/02/23 19:32	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(6.5-7.5)

Lab Sample ID: 460-291147-9

Date Collected: 10/24/23 13:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Methyl tert-butyl ether	0.00045	U	0.00087	0.00045	mg/Kg	☼	11/02/23 19:32	1	MZS
Methylcyclohexane	0.00044	U	0.00087	0.00044	mg/Kg	☼	11/02/23 19:32	1	MZS
Methylene Chloride	0.0010	U	0.0017	0.0010	mg/Kg	☼	11/02/23 19:32	1	MZS
m-Xylene & p-Xylene	0.0034		0.00087	0.00015	mg/Kg	☼	11/02/23 19:32	1	MZS
o-Xylene	0.0046		0.00087	0.00017	mg/Kg	☼	11/02/23 19:32	1	MZS
Styrene	0.00082	J	0.00087	0.00024	mg/Kg	☼	11/02/23 19:32	1	MZS
Tetrachloroethene	0.00027	U	0.00087	0.00027	mg/Kg	☼	11/02/23 19:32	1	MZS
Toluene	0.00049	J	0.00087	0.00020	mg/Kg	☼	11/02/23 19:32	1	MZS
trans-1,2-Dichloroethene	0.00022	U	0.00087	0.00022	mg/Kg	☼	11/02/23 19:32	1	MZS
trans-1,3-Dichloropropene	0.00023	U	0.00087	0.00023	mg/Kg	☼	11/02/23 19:32	1	MZS
Trichloroethene	0.00028	U	0.00087	0.00028	mg/Kg	☼	11/02/23 19:32	1	MZS
Trichlorofluoromethane	0.00035	U	0.00087	0.00035	mg/Kg	☼	11/02/23 19:32	1	MZS
Vinyl chloride	0.00048	U	0.00087	0.00048	mg/Kg	☼	11/02/23 19:32	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.041	J N	mg/Kg	☼	12.23	N/A	11/02/23 19:32	1	MZS
Undecane, 2,6-dimethyl-	0.082	J N	mg/Kg	☼	12.34	17301-23-4	11/02/23 19:32	1	MZS
Unknown	0.059	J N	mg/Kg	☼	12.77	N/A	11/02/23 19:32	1	MZS
Unknown	0.055	J N	mg/Kg	☼	12.95	N/A	11/02/23 19:32	1	MZS
Unknown	0.046	J N	mg/Kg	☼	13.09	N/A	11/02/23 19:32	1	MZS
Unknown	0.049	J N	mg/Kg	☼	13.45	N/A	11/02/23 19:32	1	MZS
Naphthalene, 1-methyl-	0.25	J N	mg/Kg	☼	13.58	90-12-0	11/02/23 19:32	1	MZS
Biphenyl	0.12	J N	mg/Kg	☼	13.97	92-52-4	11/02/23 19:32	1	MZS
Unknown	0.041	J N	mg/Kg	☼	14.01	N/A	11/02/23 19:32	1	MZS
Naphthalene, 2,6-dimethyl-	0.16	J N	mg/Kg	☼	14.22	581-42-0	11/02/23 19:32	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	106		72 - 138	11/02/23 19:32	1	MZS
4-Bromofluorobenzene	100		63 - 139	11/02/23 19:32	1	MZS
Dibromofluoromethane (Surr)	108		54 - 150	11/02/23 19:32	1	MZS
Toluene-d8 (Surr)	102		71 - 126	11/02/23 19:32	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.9		0.35	0.012	mg/Kg	☼	10/27/23 10:43	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.35	0.023	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	10/27/23 10:43	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	10/27/23 10:43	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	10/27/23 10:43	1	MDJ
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	10/27/23 10:43	1	MDJ
2-Methylnaphthalene	0.050	J	0.35	0.0097	mg/Kg	☼	10/27/23 10:43	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	10/27/23 10:43	1	MDJ
2-Nitroaniline	0.026	U	0.35	0.026	mg/Kg	☼	10/27/23 10:43	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(6.5-7.5)

Lab Sample ID: 460-291147-9

Date Collected: 10/24/23 13:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 95.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	✱	10/27/23 10:43	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	✱	10/27/23 10:43	1	MDJ
3-Nitroaniline	0.082	U	0.35	0.082	mg/Kg	✱	10/27/23 10:43	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.35	0.019	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Chloroaniline	0.061	U	0.35	0.061	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	✱	10/27/23 10:43	1	MDJ
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	✱	10/27/23 10:43	1	MDJ
Acenaphthene	3.9		0.35	0.0099	mg/Kg	✱	10/27/23 10:43	1	MDJ
Acenaphthylene	3.4		0.35	0.0099	mg/Kg	✱	10/27/23 10:43	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	✱	10/27/23 10:43	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzaldehyde	0.057	U J	0.35	0.057	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzo[a]anthracene	8.4		0.035	0.026	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzo[a]pyrene	6.9		0.035	0.0092	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzo[b]fluoranthene	5.2		0.035	0.0090	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzo[g,h,i]perylene	2.2		0.35	0.010	mg/Kg	✱	10/27/23 10:43	1	MDJ
Benzo[k]fluoranthene	1.9		0.035	0.0068	mg/Kg	✱	10/27/23 10:43	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	✱	10/27/23 10:43	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	✱	10/27/23 10:43	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	✱	10/27/23 10:43	1	MDJ
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	✱	10/27/23 10:43	1	MDJ
Caprolactam	0.054	U	0.35	0.054	mg/Kg	✱	10/27/23 10:43	1	MDJ
Carbazole	0.057	J	0.35	0.013	mg/Kg	✱	10/27/23 10:43	1	MDJ
Chrysene	7.8		0.35	0.015	mg/Kg	✱	10/27/23 10:43	1	MDJ
Dibenz(a,h)anthracene	0.70		0.035	0.015	mg/Kg	✱	10/27/23 10:43	1	MDJ
Dibenzofuran	1.0		0.35	0.012	mg/Kg	✱	10/27/23 10:43	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	✱	10/27/23 10:43	1	MDJ
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	✱	10/27/23 10:43	1	MDJ
Di-n-butyl phthalate	0.11	J	0.35	0.013	mg/Kg	✱	10/27/23 10:43	1	MDJ
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	✱	10/27/23 10:43	1	MDJ
Fluorene	4.3		0.35	0.010	mg/Kg	✱	10/27/23 10:43	1	MDJ
Hexachlorobenzene	0.016	U	0.035	0.016	mg/Kg	✱	10/27/23 10:43	1	MDJ
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	✱	10/27/23 10:43	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.35	0.030	mg/Kg	✱	10/27/23 10:43	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	✱	10/27/23 10:43	1	MDJ
Indeno[1,2,3-cd]pyrene	2.4		0.035	0.014	mg/Kg	✱	10/27/23 10:43	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	✱	10/27/23 10:43	1	MDJ
Naphthalene	0.094	J	0.35	0.0060	mg/Kg	✱	10/27/23 10:43	1	MDJ
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	✱	10/27/23 10:43	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	✱	10/27/23 10:43	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.35	0.028	mg/Kg	✱	10/27/23 10:43	1	MDJ
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	✱	10/27/23 10:43	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	✱	10/27/23 10:43	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 2,6-dimethyl-	3.0	J N	mg/Kg	✱	6.54	581-42-0	10/27/23 10:43	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-115(6.5-7.5)

Lab Sample ID: 460-291147-9

Date Collected: 10/24/23 13:07

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 95.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1,6-dimethyl-	3.5	J N	mg/Kg	⊛	6.61	575-43-9	10/27/23 10:43	1	MDJ
Naphthalene, 2,3-dimethyl-	2.5	J N	mg/Kg	⊛	6.72	581-40-8	10/27/23 10:43	1	MDJ
9H-Fluorene, 2-methyl-	2.6	J N	mg/Kg	⊛	8.01	1430-97-3	10/27/23 10:43	1	MDJ
Dibenzothiophene	3.2	J N	mg/Kg	⊛	8.28	132-65-0	10/27/23 10:43	1	MDJ
Unknown	5.0	J N	mg/Kg	⊛	8.88	N/A	10/27/23 10:43	1	MDJ
Anthracene, 2-methyl-	5.1	J N	mg/Kg	⊛	8.91	613-12-7	10/27/23 10:43	1	MDJ
Phenanthrene, 2-methyl-	3.6	J N	mg/Kg	⊛	9.01	2531-84-2	10/27/23 10:43	1	MDJ
2-Phenylnaphthalene	2.8	J N	mg/Kg	⊛	9.17	35465-71-5	10/27/23 10:43	1	MDJ
9,10-Dimethylantracene	2.7	J N	mg/Kg	⊛	9.42	781-43-1	10/27/23 10:43	1	MDJ
Unknown	2.9	J N	mg/Kg	⊛	9.66	N/A	10/27/23 10:43	1	MDJ
Fluoranthene, 2-methyl-	3.3	J N	mg/Kg	⊛	10.01	33543-31-6	10/27/23 10:43	1	MDJ
Unknown	3.2	J N	mg/Kg	⊛	10.09	N/A	10/27/23 10:43	1	MDJ
11H-Benzo[a]fluorene	5.6	J N	mg/Kg	⊛	10.12	238-84-6	10/27/23 10:43	1	MDJ
11H-Benzo[b]fluorene	4.4	J N	mg/Kg	⊛	10.18	243-17-4	10/27/23 10:43	1	MDJ
Unknown	3.2	J N	mg/Kg	⊛	10.22	N/A	10/27/23 10:43	1	MDJ
Pyrene, 1-methyl-	3.5	J N	mg/Kg	⊛	10.31	2381-21-7	10/27/23 10:43	1	MDJ
Unknown	5.0	J N	mg/Kg	⊛	10.34	N/A	10/27/23 10:43	1	MDJ
Triphenylene, 2-methyl-	3.5	J N	mg/Kg	⊛	11.52	1705-84-6	10/27/23 10:43	1	MDJ
Perylene	3.5	J N	mg/Kg	⊛	12.70	198-55-0	10/27/23 10:43	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	85		24 - 137	10/27/23 10:43	1	MDJ
2-Fluorobiphenyl	97		48 - 120	10/27/23 10:43	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	10/27/23 10:43	1	MDJ
Nitrobenzene-d5 (Surr)	96		38 - 120	10/27/23 10:43	1	MDJ
Phenol-d5 (Surr)	93		39 - 120	10/27/23 10:43	1	MDJ
Terphenyl-d14 (Surr)	107		25 - 126	10/27/23 10:43	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Anthracene	12	D	3.5	0.11	mg/Kg	⊛	10/27/23 16:48	10	MDJ
Fluoranthene	14	D	3.5	0.12	mg/Kg	⊛	10/27/23 16:48	10	MDJ
Phenanthrene	50	D	3.5	0.14	mg/Kg	⊛	10/27/23 16:48	10	MDJ
Pyrene	21	D	3.5	0.086	mg/Kg	⊛	10/27/23 16:48	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/27/23 16:48	10	MDJ

Client Sample ID: SB-120(20.0-21.0)

Lab Sample ID: 460-291147-10

Date Collected: 10/24/23 14:47

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.023	U	0.083	0.023	mg/Kg	⊛	10/31/23 07:17	50	MZS
1,1,2,2-Tetrachloroethane	0.017	U	0.083	0.017	mg/Kg	⊛	10/31/23 07:17	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.028	U	0.083	0.028	mg/Kg	⊛	10/31/23 07:17	50	MZS
1,1,2-Trichloroethane	0.017	U	0.083	0.017	mg/Kg	⊛	10/31/23 07:17	50	MZS
1,1-Dichloroethane	0.020	U	0.083	0.020	mg/Kg	⊛	10/31/23 07:17	50	MZS
1,1-Dichloroethene	0.022	U	0.083	0.022	mg/Kg	⊛	10/31/23 07:17	50	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(20.0-21.0)

Lab Sample ID: 460-291147-10

Date Collected: 10/24/23 14:47

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2,3-Trichlorobenzene	0.029	U	0.083	0.029	mg/Kg	☼	10/31/23 07:17	50	MZS
1,2,4-Trichlorobenzene	0.022	U	0.083	0.022	mg/Kg	☼	10/31/23 07:17	50	MZS
1,2-Dibromo-3-Chloropropane	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
1,2-Dichlorobenzene	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
1,2-Dichloroethane	0.021	U	0.083	0.021	mg/Kg	☼	10/31/23 07:17	50	MZS
1,2-Dichloropropane	0.015	U	0.083	0.015	mg/Kg	☼	10/31/23 07:17	50	MZS
1,3-Dichlorobenzene	0.027	U	0.083	0.027	mg/Kg	☼	10/31/23 07:17	50	MZS
1,4-Dichlorobenzene	0.028	U	0.083	0.028	mg/Kg	☼	10/31/23 07:17	50	MZS
1,4-Dioxane	2.3	U	4.2	2.3	mg/Kg	☼	10/31/23 07:17	50	MZS
2-Butanone (MEK)	0.18	U	0.42	0.18	mg/Kg	☼	10/31/23 07:17	50	MZS
2-Hexanone	0.095	U	0.42	0.095	mg/Kg	☼	10/31/23 07:17	50	MZS
4-Methyl-2-pentanone (MIBK)	0.11	U	0.42	0.11	mg/Kg	☼	10/31/23 07:17	50	MZS
Acetone	0.37	U	0.42	0.37	mg/Kg	☼	10/31/23 07:17	50	MZS
Benzene	0.32		0.083	0.017	mg/Kg	☼	10/31/23 07:17	50	MZS
Bromoform	0.015	U	0.083	0.015	mg/Kg	☼	10/31/23 07:17	50	MZS
Bromomethane	0.046	U	0.083	0.046	mg/Kg	☼	10/31/23 07:17	50	MZS
Carbon disulfide	0.056	U J	0.083	0.056	mg/Kg	☼	10/31/23 07:17	50	MZS
Carbon tetrachloride	0.027	U	0.083	0.027	mg/Kg	☼	10/31/23 07:17	50	MZS
Chlorobenzene	0.020	U	0.083	0.020	mg/Kg	☼	10/31/23 07:17	50	MZS
Chlorobromomethane	0.025	U	0.083	0.025	mg/Kg	☼	10/31/23 07:17	50	MZS
Chlorodibromomethane	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Chloroethane	0.031	U	0.083	0.031	mg/Kg	☼	10/31/23 07:17	50	MZS
Chloroform	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Chloromethane	0.033	U J	0.083	0.033	mg/Kg	☼	10/31/23 07:17	50	MZS
cis-1,2-Dichloroethene	0.022	U	0.083	0.022	mg/Kg	☼	10/31/23 07:17	50	MZS
cis-1,3-Dichloropropene	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Cyclohexane	0.022	U	0.083	0.022	mg/Kg	☼	10/31/23 07:17	50	MZS
Dichlorobromomethane	0.012	U	0.083	0.012	mg/Kg	☼	10/31/23 07:17	50	MZS
Dichlorodifluoromethane	0.026	U J	0.083	0.026	mg/Kg	☼	10/31/23 07:17	50	MZS
Ethylbenzene	9.0		0.083	0.025	mg/Kg	☼	10/31/23 07:17	50	MZS
Ethylene Dibromide	0.016	U	0.083	0.016	mg/Kg	☼	10/31/23 07:17	50	MZS
Isopropylbenzene	1.3		0.083	0.027	mg/Kg	☼	10/31/23 07:17	50	MZS
Methyl acetate	0.065	U	0.42	0.065	mg/Kg	☼	10/31/23 07:17	50	MZS
Methyl tert-butyl ether	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Methylcyclohexane	0.21		0.083	0.060	mg/Kg	☼	10/31/23 07:17	50	MZS
Methylene Chloride	0.017	U	0.083	0.017	mg/Kg	☼	10/31/23 07:17	50	MZS
m-Xylene & p-Xylene	2.0		0.083	0.023	mg/Kg	☼	10/31/23 07:17	50	MZS
o-Xylene	3.0		0.083	0.027	mg/Kg	☼	10/31/23 07:17	50	MZS
Styrene	0.014	U	0.083	0.014	mg/Kg	☼	10/31/23 07:17	50	MZS
Tetrachloroethene	0.030	U	0.083	0.030	mg/Kg	☼	10/31/23 07:17	50	MZS
Toluene	0.18		0.083	0.021	mg/Kg	☼	10/31/23 07:17	50	MZS
trans-1,2-Dichloroethene	0.015	U	0.083	0.015	mg/Kg	☼	10/31/23 07:17	50	MZS
trans-1,3-Dichloropropene	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Trichloroethene	0.018	U	0.083	0.018	mg/Kg	☼	10/31/23 07:17	50	MZS
Trichlorofluoromethane	0.027	U	0.083	0.027	mg/Kg	☼	10/31/23 07:17	50	MZS
Vinyl chloride	0.017	U	0.083	0.017	mg/Kg	☼	10/31/23 07:17	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	1.9	J N	mg/Kg	☼	11.05	620-14-4	10/31/23 07:17	50	MZS
Benzene, 1,2,4-trimethyl-	4.0	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 07:17	50	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(20.0-21.0)

Lab Sample ID: 460-291147-10

Date Collected: 10/24/23 14:47

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 98.9

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	30	J N	mg/Kg	☼	12.22	496-11-7	10/31/23 07:17	50	MZS
Benzene, 2-ethyl-1,3-dimethyl-	1.7	J N	mg/Kg	☼	12.62	2870-04-4	10/31/23 07:17	50	MZS
1H-Indene, 2,3-dihydro-4-methyl-	2.6	J N	mg/Kg	☼	13.10	824-22-6	10/31/23 07:17	50	MZS
1,4-Dihydronaphthalene	2.2	J N	mg/Kg	☼	13.23	612-17-9	10/31/23 07:17	50	MZS
1H-Indene, 1-methyl-	4.3	J N	mg/Kg	☼	13.29	767-59-9	10/31/23 07:17	50	MZS
Naphthalene	50	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 07:17	50	MZS
Naphthalene, 2-methyl-	5.8	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 07:17	50	MZS
Naphthalene, 1-methyl-	5.7	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 07:17	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	108		68 - 150	10/31/23 07:17	50	MZS
4-Bromofluorobenzene	100		70 - 141	10/31/23 07:17	50	MZS
Dibromofluoromethane (Surr)	99		68 - 142	10/31/23 07:17	50	MZS
Toluene-d8 (Surr)	100		73 - 147	10/31/23 07:17	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	2.9		0.33	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	10/27/23 11:06	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	10/27/23 11:06	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	10/27/23 11:06	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	10/27/23 11:06	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	10/27/23 11:06	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	10/27/23 11:06	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	10/27/23 11:06	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	10/27/23 11:06	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	10/27/23 11:06	1	MDJ
Acenaphthylene	2.6		0.33	0.0095	mg/Kg	☼	10/27/23 11:06	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	10/27/23 11:06	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	10/27/23 11:06	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	10/27/23 11:06	1	MDJ
Benzo[a]anthracene	6.7		0.033	0.025	mg/Kg	☼	10/27/23 11:06	1	MDJ
Benzo[a]pyrene	5.8		0.033	0.0089	mg/Kg	☼	10/27/23 11:06	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(20.0-21.0)

Lab Sample ID: 460-291147-10

Date Collected: 10/24/23 14:47

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 98.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	4.4		0.033	0.0086	mg/Kg	☼	10/27/23 11:06	1	MDJ
Benzo[g,h,i]perylene	1.9		0.33	0.0098	mg/Kg	☼	10/27/23 11:06	1	MDJ
Benzo[k]fluoranthene	1.7		0.033	0.0065	mg/Kg	☼	10/27/23 11:06	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	10/27/23 11:06	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	10/27/23 11:06	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	10/27/23 11:06	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	10/27/23 11:06	1	MDJ
Carbazole	0.29	J	0.33	0.013	mg/Kg	☼	10/27/23 11:06	1	MDJ
Chrysene	6.1		0.33	0.014	mg/Kg	☼	10/27/23 11:06	1	MDJ
Dibenz(a,h)anthracene	0.60		0.033	0.014	mg/Kg	☼	10/27/23 11:06	1	MDJ
Dibenzofuran	1.2		0.33	0.011	mg/Kg	☼	10/27/23 11:06	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	10/27/23 11:06	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	10/27/23 11:06	1	MDJ
Di-n-butyl phthalate	0.15	J	0.33	0.013	mg/Kg	☼	10/27/23 11:06	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	10/27/23 11:06	1	MDJ
Fluorene	7.7		0.33	0.0097	mg/Kg	☼	10/27/23 11:06	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	10/27/23 11:06	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	10/27/23 11:06	1	MDJ
Hexachlorocyclopentadiene	0.029	U *	0.33	0.029	mg/Kg	☼	10/27/23 11:06	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	10/27/23 11:06	1	MDJ
Indeno[1,2,3-cd]pyrene	2.1		0.033	0.013	mg/Kg	☼	10/27/23 11:06	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	10/27/23 11:06	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	10/27/23 11:06	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	10/27/23 11:06	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	10/27/23 11:06	1	MDJ
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	10/27/23 11:06	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	10/27/23 11:06	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	8.4	J N	mg/Kg	☼	4.10	496-11-7	10/27/23 11:06	1	MDJ
2-Methylindene	2.8	J N	mg/Kg	☼	4.99	2177-47-1	10/27/23 11:06	1	MDJ
Naphthalene, 1-methyl-	7.3	J N	mg/Kg	☼	6.02	90-12-0	10/27/23 11:06	1	MDJ
Naphthalene, 2-ethyl-	2.6	J N	mg/Kg	☼	6.47	939-27-5	10/27/23 11:06	1	MDJ
Naphthalene, 2,6-dimethyl-	2.9	J N	mg/Kg	☼	6.54	581-42-0	10/27/23 11:06	1	MDJ
Naphthalene, 2,3-dimethyl-	4.6	J N	mg/Kg	☼	6.61	581-40-8	10/27/23 11:06	1	MDJ
Unknown	2.9	J N	mg/Kg	☼	6.72	N/A	10/27/23 11:06	1	MDJ
Phenanthrene, 1-methyl-	4.2	J N	mg/Kg	☼	8.88	832-69-9	10/27/23 11:06	1	MDJ
Anthracene, 9-methyl-	4.8	J N	mg/Kg	☼	8.91	779-02-2	10/27/23 11:06	1	MDJ
Phenanthrene, 2-methyl-	2.8	J N	mg/Kg	☼	9.01	2531-84-2	10/27/23 11:06	1	MDJ
2-Phenylnaphthalene	2.6	J N	mg/Kg	☼	9.18	35465-71-5	10/27/23 11:06	1	MDJ
9,10-Dimethylantracene	2.7	J N	mg/Kg	☼	9.42	781-43-1	10/27/23 11:06	1	MDJ
Unknown	3.4	J N	mg/Kg	☼	9.66	N/A	10/27/23 11:06	1	MDJ
Fluoranthene, 2-methyl-	4.4	J N	mg/Kg	☼	10.12	33543-31-6	10/27/23 11:06	1	MDJ
Unknown	3.2	J N	mg/Kg	☼	10.18	N/A	10/27/23 11:06	1	MDJ
Pyrene, 1-methyl-	2.4	J N	mg/Kg	☼	10.22	2381-21-7	10/27/23 11:06	1	MDJ
Unknown	2.6	J N	mg/Kg	☼	10.31	N/A	10/27/23 11:06	1	MDJ
Unknown	3.9	J N	mg/Kg	☼	10.34	N/A	10/27/23 11:06	1	MDJ
Benz[a]anthracene, 7-methyl-	2.6	J N	mg/Kg	☼	11.53	2541-69-7	10/27/23 11:06	1	MDJ
Perylene	3.1	J N	mg/Kg	☼	12.71	198-55-0	10/27/23 11:06	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(20.0-21.0)

Lab Sample ID: 460-291147-10

Date Collected: 10/24/23 14:47

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 98.9

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	88		24 - 137	10/27/23 11:06	1	MDJ
2-Fluorobiphenyl	96		48 - 120	10/27/23 11:06	1	MDJ
2-Fluorophenol (Surr)	85		31 - 120	10/27/23 11:06	1	MDJ
Nitrobenzene-d5 (Surr)	95		38 - 120	10/27/23 11:06	1	MDJ
Phenol-d5 (Surr)	92		39 - 120	10/27/23 11:06	1	MDJ
Terphenyl-d14 (Surr)	103		25 - 126	10/27/23 11:06	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	9.3	D	3.3	0.093	mg/Kg	✱	10/27/23 17:11	10	MDJ
Acenaphthene	15	D	3.3	0.095	mg/Kg	✱	10/27/23 17:11	10	MDJ
Anthracene	10	D	3.3	0.10	mg/Kg	✱	10/27/23 17:11	10	MDJ
Fluoranthene	12	D	3.3	0.12	mg/Kg	✱	10/27/23 17:11	10	MDJ
Naphthalene	33	D	3.3	0.057	mg/Kg	✱	10/27/23 17:11	10	MDJ
Phenanthrene	32	D	3.3	0.14	mg/Kg	✱	10/27/23 17:11	10	MDJ
Pyrene	17	D	3.3	0.083	mg/Kg	✱	10/27/23 17:11	10	MDJ
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/27/23 17:11	10	MDJ

Client Sample ID: SB-120(22.0-23.0)

Lab Sample ID: 460-291147-11

Date Collected: 10/24/23 14:53

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00019	U	0.00083	0.00019	mg/Kg	✱	11/03/23 20:13	1	VZD
1,1,2,2-Tetrachloroethane	0.00018	U	0.00083	0.00018	mg/Kg	✱	11/03/23 20:13	1	VZD
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00025	U	0.00083	0.00025	mg/Kg	✱	11/03/23 20:13	1	VZD
1,1,2-Trichloroethane	0.00015	✱ UJ	0.00083	0.00015	mg/Kg	✱	11/03/23 20:13	1	VZD
1,1-Dichloroethane	0.00017	U	0.00083	0.00017	mg/Kg	✱	11/03/23 20:13	1	VZD
1,1-Dichloroethene	0.00019	U	0.00083	0.00019	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2,3-Trichlorobenzene	0.00015	U	0.00083	0.00015	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2,4-Trichlorobenzene	0.00030	U	0.00083	0.00030	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2-Dibromo-3-Chloropropane	0.00038	U	0.00083	0.00038	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2-Dichlorobenzene	0.00030	U	0.00083	0.00030	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2-Dichloroethane	0.00025	U	0.00083	0.00025	mg/Kg	✱	11/03/23 20:13	1	VZD
1,2-Dichloropropane	0.00035	U	0.00083	0.00035	mg/Kg	✱	11/03/23 20:13	1	VZD
1,3-Dichlorobenzene	0.00030	U	0.00083	0.00030	mg/Kg	✱	11/03/23 20:13	1	VZD
1,4-Dichlorobenzene	0.00019	U	0.00083	0.00019	mg/Kg	✱	11/03/23 20:13	1	VZD
1,4-Dioxane	0.0077	U	0.083	0.0077	mg/Kg	✱	11/03/23 20:13	1	VZD
2-Butanone (MEK)	0.0070		0.0042	0.00031	mg/Kg	✱	11/03/23 20:13	1	VZD
2-Hexanone	0.0014	U	0.0042	0.0014	mg/Kg	✱	11/03/23 20:13	1	VZD
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0042	0.0013	mg/Kg	✱	11/03/23 20:13	1	VZD
Acetone	0.014	J	0.0050	0.0048	mg/Kg	✱	11/03/23 20:13	1	VZD
Benzene	0.0011		0.00083	0.00022	mg/Kg	✱	11/03/23 20:13	1	VZD
Bromoform	0.00035	U	0.00083	0.00035	mg/Kg	✱	11/03/23 20:13	1	VZD
Bromomethane	0.00083	U	0.0017	0.00083	mg/Kg	✱	11/03/23 20:13	1	VZD
Carbon disulfide	0.0041	J	0.00083	0.00022	mg/Kg	✱	11/03/23 20:13	1	VZD
Carbon tetrachloride	0.00032	U	0.00083	0.00032	mg/Kg	✱	11/03/23 20:13	1	VZD
Chlorobenzene	0.00015	U	0.00083	0.00015	mg/Kg	✱	11/03/23 20:13	1	VZD

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(22.0-23.0)

Lab Sample ID: 460-291147-11

Date Collected: 10/24/23 14:53

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobromomethane	0.00023	U	0.00083	0.00023	mg/Kg	☼	11/03/23 20:13	1	VZD
Chlorodibromomethane	0.00016	U	0.00083	0.00016	mg/Kg	☼	11/03/23 20:13	1	VZD
Chloroethane	0.00044	U	0.00083	0.00044	mg/Kg	☼	11/03/23 20:13	1	VZD
Chloroform	0.00081	U	0.00083	0.00081	mg/Kg	☼	11/03/23 20:13	1	VZD
Chloromethane	0.00036	U	0.00083	0.00036	mg/Kg	☼	11/03/23 20:13	1	VZD
cis-1,2-Dichloroethene	0.00030	U	0.00083	0.00030	mg/Kg	☼	11/03/23 20:13	1	VZD
cis-1,3-Dichloropropene	0.00023	U	0.00083	0.00023	mg/Kg	☼	11/03/23 20:13	1	VZD
Cyclohexane	0.00018	U	0.00083	0.00018	mg/Kg	☼	11/03/23 20:13	1	VZD
Dichlorobromomethane	0.00021	U	0.00083	0.00021	mg/Kg	☼	11/03/23 20:13	1	VZD
Dichlorodifluoromethane	0.00028	U J	0.00083	0.00028	mg/Kg	☼	11/03/23 20:13	1	VZD
Ethylbenzene	0.011		0.00083	0.00017	mg/Kg	☼	11/03/23 20:13	1	VZD
Ethylene Dibromide	0.00015	U	0.00083	0.00015	mg/Kg	☼	11/03/23 20:13	1	VZD
Isopropylbenzene	0.0017		0.00083	0.00024	mg/Kg	☼	11/03/23 20:13	1	VZD
Methyl acetate	0.0036	U	0.0042	0.0036	mg/Kg	☼	11/03/23 20:13	1	VZD
Methyl tert-butyl ether	0.00043	U	0.00083	0.00043	mg/Kg	☼	11/03/23 20:13	1	VZD
Methylcyclohexane	0.00042	U	0.00083	0.00042	mg/Kg	☼	11/03/23 20:13	1	VZD
Methylene Chloride	0.00095	U	0.0017	0.00095	mg/Kg	☼	11/03/23 20:13	1	VZD
m-Xylene & p-Xylene	0.0023		0.00083	0.00015	mg/Kg	☼	11/03/23 20:13	1	VZD
o-Xylene	0.0040		0.00083	0.00016	mg/Kg	☼	11/03/23 20:13	1	VZD
Styrene	0.00023	U	0.00083	0.00023	mg/Kg	☼	11/03/23 20:13	1	VZD
Tetrachloroethene	0.00025	U	0.00083	0.00025	mg/Kg	☼	11/03/23 20:13	1	VZD
Toluene	0.00043	J	0.00083	0.00020	mg/Kg	☼	11/03/23 20:13	1	VZD
trans-1,2-Dichloroethene	0.00021	U	0.00083	0.00021	mg/Kg	☼	11/03/23 20:13	1	VZD
trans-1,3-Dichloropropene	0.00022	U	0.00083	0.00022	mg/Kg	☼	11/03/23 20:13	1	VZD
Trichloroethene	0.00027	U	0.00083	0.00027	mg/Kg	☼	11/03/23 20:13	1	VZD
Trichlorofluoromethane	0.00034	U	0.00083	0.00034	mg/Kg	☼	11/03/23 20:13	1	VZD
Vinyl chloride	0.00046	U	0.00083	0.00046	mg/Kg	☼	11/03/23 20:13	1	VZD

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	0.15	J N	mg/Kg	☼	11.17	496-11-7	11/03/23 20:13	1	VZD
2-Methylindene	0.028	J N	mg/Kg	☼	12.35	2177-47-1	11/03/23 20:13	1	VZD
Naphthalene	0.43	J N	mg/Kg	☼	12.67	91-20-3	11/03/23 20:13	1	VZD
2-Benzothiophene #	0.017	J N	mg/Kg	☼	12.75	270-82-6	11/03/23 20:13	1	VZD
1H-Indene, 1,3-dimethyl-	0.014	J N	mg/Kg	☼	13.18	2177-48-2	11/03/23 20:13	1	VZD
Naphthalene, 2-methyl-	0.061	J N	mg/Kg	☼	13.45	91-57-6	11/03/23 20:13	1	VZD
Naphthalene, 1-methyl-	0.26	J N	mg/Kg	☼	13.58	90-12-0	11/03/23 20:13	1	VZD
Biphenyl	0.033	J N	mg/Kg	☼	13.97	92-52-4	11/03/23 20:13	1	VZD
Naphthalene, 2-ethyl-	0.014	J N	mg/Kg	☼	14.13	939-27-5	11/03/23 20:13	1	VZD
Naphthalene, 1,6-dimethyl-	0.032	J N	mg/Kg	☼	14.22	575-43-9	11/03/23 20:13	1	VZD

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	94		72 - 138	11/03/23 20:13	1	VZD
4-Bromofluorobenzene	102		63 - 139	11/03/23 20:13	1	VZD
Dibromofluoromethane (Surr)	105		54 - 150	11/03/23 20:13	1	VZD
Toluene-d8 (Surr)	100		71 - 126	11/03/23 20:13	1	VZD

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.040	J	0.33	0.012	mg/Kg	☼	10/27/23 08:29	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	10/27/23 08:29	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(22.0-23.0)

Lab Sample ID: 460-291147-11

Date Collected: 10/24/23 14:53

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	✱	10/27/23 08:29	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Methylnaphthalene	0.032	J	0.33	0.0093	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	✱	10/27/23 08:29	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	✱	10/27/23 08:29	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	✱	10/27/23 08:29	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	10/27/23 08:29	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	10/27/23 08:29	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	✱	10/27/23 08:29	1	MDJ
Acenaphthene	0.37		0.33	0.0094	mg/Kg	✱	10/27/23 08:29	1	MDJ
Acenaphthylene	0.018	J	0.33	0.0095	mg/Kg	✱	10/27/23 08:29	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	10/27/23 08:29	1	MDJ
Anthracene	0.14	J	0.33	0.010	mg/Kg	✱	10/27/23 08:29	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzo[a]anthracene	0.047		0.033	0.025	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzo[a]pyrene	0.033		0.033	0.0088	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzo[b]fluoranthene	0.023	J	0.033	0.0086	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	✱	10/27/23 08:29	1	MDJ
Benzo[k]fluoranthene	0.011	J	0.033	0.0065	mg/Kg	✱	10/27/23 08:29	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	10/27/23 08:29	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 08:29	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	10/27/23 08:29	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	10/27/23 08:29	1	MDJ
Carbazole	0.053	J	0.33	0.013	mg/Kg	✱	10/27/23 08:29	1	MDJ
Chrysene	0.043	J	0.33	0.014	mg/Kg	✱	10/27/23 08:29	1	MDJ
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	✱	10/27/23 08:29	1	MDJ
Dibenzofuran	0.036	J	0.33	0.011	mg/Kg	✱	10/27/23 08:29	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	10/27/23 08:29	1	MDJ
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	✱	10/27/23 08:29	1	MDJ
Di-n-butyl phthalate	0.12	J	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	10/27/23 08:29	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: SB-120(22.0-23.0)

Lab Sample ID: 460-291147-11

Date Collected: 10/24/23 14:53

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 99.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoranthene	0.11	J	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
Fluorene	0.11	J	0.33	0.0097	mg/Kg	✱	10/27/23 08:29	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	10/27/23 08:29	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	10/27/23 08:29	1	MDJ
Hexachlorocyclopentadiene	~~0.029~~	~~U *~~	~~0.33~~	~~0.029~~	~~mg/Kg~~	~~✱~~	~~10/27/23 08:29~~	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	10/27/23 08:29	1	MDJ
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	✱	10/27/23 08:29	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	✱	10/27/23 08:29	1	MDJ
Naphthalene	0.36		0.33	0.0057	mg/Kg	✱	10/27/23 08:29	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	✱	10/27/23 08:29	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	10/27/23 08:29	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	✱	10/27/23 08:29	1	MDJ
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	✱	10/27/23 08:29	1	MDJ
Phenanthrene	0.58		0.33	0.014	mg/Kg	✱	10/27/23 08:29	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	10/27/23 08:29	1	MDJ
Pyrene	0.18	J	0.33	0.0082	mg/Kg	✱	10/27/23 08:29	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	0.42	J N	mg/Kg	✱	6.01	90-12-0	10/27/23 08:29	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	82		24 - 137	10/27/23 08:29	1	MDJ
2-Fluorobiphenyl	89		48 - 120	10/27/23 08:29	1	MDJ
2-Fluorophenol (Surr)	83		31 - 120	10/27/23 08:29	1	MDJ
Nitrobenzene-d5 (Surr)	91		38 - 120	10/27/23 08:29	1	MDJ
Phenol-d5 (Surr)	91		39 - 120	10/27/23 08:29	1	MDJ
Terphenyl-d14 (Surr)	98		25 - 126	10/27/23 08:29	1	MDJ

Client Sample ID: DUP20231024

Lab Sample ID: 460-291147-12

Date Collected: 10/24/23 00:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.12	U	0.42	0.12	mg/Kg	✱	10/31/23 09:22	200	MZS
1,1,2,2-Tetrachloroethane	0.083	U	0.42	0.083	mg/Kg	✱	10/31/23 09:22	200	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.14	U	0.42	0.14	mg/Kg	✱	10/31/23 09:22	200	MZS
1,1,2-Trichloroethane	0.086	U	0.42	0.086	mg/Kg	✱	10/31/23 09:22	200	MZS
1,1-Dichloroethane	0.10	U	0.42	0.10	mg/Kg	✱	10/31/23 09:22	200	MZS
1,1-Dichloroethene	0.11	U	0.42	0.11	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2,3-Trichlorobenzene	0.15	U	0.42	0.15	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2,4-Trichlorobenzene	0.11	U	0.42	0.11	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2-Dibromo-3-Chloropropane	0.089	U	0.42	0.089	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2-Dichlorobenzene	0.092	U	0.42	0.092	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2-Dichloroethane	0.11	U	0.42	0.11	mg/Kg	✱	10/31/23 09:22	200	MZS
1,2-Dichloropropane	0.076	U	0.42	0.076	mg/Kg	✱	10/31/23 09:22	200	MZS
1,3-Dichlorobenzene	0.14	U	0.42	0.14	mg/Kg	✱	10/31/23 09:22	200	MZS
1,4-Dichlorobenzene	0.14	U	0.42	0.14	mg/Kg	✱	10/31/23 09:22	200	MZS
1,4-Dioxane	12	U	21	12	mg/Kg	✱	10/31/23 09:22	200	MZS
2-Butanone (MEK)	0.92	U	2.1	0.92	mg/Kg	✱	10/31/23 09:22	200	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: DUP20231024

Lab Sample ID: 460-291147-12

Date Collected: 10/24/23 00:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.48	U	2.1	0.48	mg/Kg	☼	10/31/23 09:22	200	MZS
4-Methyl-2-pentanone (MIBK)	0.55	U	2.1	0.55	mg/Kg	☼	10/31/23 09:22	200	MZS
Acetone	1.9	U	2.1	1.9	mg/Kg	☼	10/31/23 09:22	200	MZS
Benzene	0.80		0.42	0.085	mg/Kg	☼	10/31/23 09:22	200	MZS
Bromoform	0.076	U	0.42	0.076	mg/Kg	☼	10/31/23 09:22	200	MZS
Bromomethane	0.23	U	0.42	0.23	mg/Kg	☼	10/31/23 09:22	200	MZS
Carbon disulfide	0.28	U J	0.42	0.28	mg/Kg	☼	10/31/23 09:22	200	MZS
Carbon tetrachloride	0.14	U	0.42	0.14	mg/Kg	☼	10/31/23 09:22	200	MZS
Chlorobenzene	0.10	U	0.42	0.10	mg/Kg	☼	10/31/23 09:22	200	MZS
Chlorobromomethane	0.13	U	0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Chlorodibromomethane	0.092	U	0.42	0.092	mg/Kg	☼	10/31/23 09:22	200	MZS
Chloroethane	0.16	U	0.42	0.16	mg/Kg	☼	10/31/23 09:22	200	MZS
Chloroform	0.092	U	0.42	0.092	mg/Kg	☼	10/31/23 09:22	200	MZS
Chloromethane	0.17	U J	0.42	0.17	mg/Kg	☼	10/31/23 09:22	200	MZS
cis-1,2-Dichloroethene	0.11	U	0.42	0.11	mg/Kg	☼	10/31/23 09:22	200	MZS
cis-1,3-Dichloropropene	0.093	U	0.42	0.093	mg/Kg	☼	10/31/23 09:22	200	MZS
Cyclohexane	0.24	J	0.42	0.11	mg/Kg	☼	10/31/23 09:22	200	MZS
Dichlorobromomethane	0.063	U	0.42	0.063	mg/Kg	☼	10/31/23 09:22	200	MZS
Dichlorodifluoromethane	0.13	U J	0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Ethylbenzene	160		0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Ethylene Dibromide	0.080	U	0.42	0.080	mg/Kg	☼	10/31/23 09:22	200	MZS
Isopropylbenzene	18		0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Methyl acetate	0.33	U	2.1	0.33	mg/Kg	☼	10/31/23 09:22	200	MZS
Methyl tert-butyl ether	0.090	U	0.42	0.090	mg/Kg	☼	10/31/23 09:22	200	MZS
Methylcyclohexane	2.6		0.42	0.30	mg/Kg	☼	10/31/23 09:22	200	MZS
Methylene Chloride	0.088	U	0.42	0.088	mg/Kg	☼	10/31/23 09:22	200	MZS
m-Xylene & p-Xylene	36		0.42	0.12	mg/Kg	☼	10/31/23 09:22	200	MZS
o-Xylene	53		0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Styrene	0.071	U	0.42	0.071	mg/Kg	☼	10/31/23 09:22	200	MZS
Tetrachloroethene	0.15	U	0.42	0.15	mg/Kg	☼	10/31/23 09:22	200	MZS
Toluene	0.82		0.42	0.11	mg/Kg	☼	10/31/23 09:22	200	MZS
trans-1,2-Dichloroethene	0.076	U	0.42	0.076	mg/Kg	☼	10/31/23 09:22	200	MZS
trans-1,3-Dichloropropene	0.093	U	0.42	0.093	mg/Kg	☼	10/31/23 09:22	200	MZS
Trichloroethene	0.092	U	0.42	0.092	mg/Kg	☼	10/31/23 09:22	200	MZS
Trichlorofluoromethane	0.13	U	0.42	0.13	mg/Kg	☼	10/31/23 09:22	200	MZS
Vinyl chloride	0.084	U	0.42	0.084	mg/Kg	☼	10/31/23 09:22	200	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	15	J N	mg/Kg	☼	11.05	620-14-4	10/31/23 09:22	200	MZS
Benzene, 1,2,4-trimethyl-	34	J N	mg/Kg	☼	11.64	95-63-6	10/31/23 09:22	200	MZS
Indane	310	J N	mg/Kg	☼	12.23	496-11-7	10/31/23 09:22	200	MZS
Benzene, 2-ethyl-1,4-dimethyl-	15	J N	mg/Kg	☼	12.33	1758-88-9	10/31/23 09:22	200	MZS
1H-Indene, 2,3-dihydro-5-methyl-	21	J N	mg/Kg	☼	13.10	874-35-1	10/31/23 09:22	200	MZS
1,4-Dihydronaphthalene	19	J N	mg/Kg	☼	13.23	612-17-9	10/31/23 09:22	200	MZS
1H-Indene, 1-methyl-	35	J N	mg/Kg	☼	13.29	767-59-9	10/31/23 09:22	200	MZS
Naphthalene	340	J N	mg/Kg	☼	13.58	91-20-3	10/31/23 09:22	200	MZS
Naphthalene, 2-methyl-	53	J N	mg/Kg	☼	14.35	91-57-6	10/31/23 09:22	200	MZS
Naphthalene, 1-methyl-	32	J N	mg/Kg	☼	14.50	90-12-0	10/31/23 09:22	200	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: DUP20231024

Lab Sample ID: 460-291147-12

Date Collected: 10/24/23 00:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.9

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	112		68 - 150	10/31/23 09:22	200	MZS
4-Bromofluorobenzene	102		70 - 141	10/31/23 09:22	200	MZS
Dibromofluoromethane (Surr)	100		68 - 142	10/31/23 09:22	200	MZS
Toluene-d8 (Surr)	109		73 - 147	10/31/23 09:22	200	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	23		3.5	0.12	mg/Kg	☆	10/27/23 17:35	10	MDJ
1,2,4,5-Tetrachlorobenzene	0.11	U	3.5	0.11	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,2'-oxybis[1-chloropropane]	0.21	U	3.5	0.21	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,3,4,6-Tetrachlorophenol	0.24	U	3.5	0.24	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4,5-Trichlorophenol	0.36	U	3.5	0.36	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4,6-Trichlorophenol	0.45	U	1.4	0.45	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4-Dichlorophenol	0.22	U	1.4	0.22	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4-Dimethylphenol	0.42	U	3.5	0.42	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4-Dinitrophenol	1.7	U	2.8	1.7	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,4-Dinitrotoluene	0.38	U	0.71	0.38	mg/Kg	☆	10/27/23 17:35	10	MDJ
2,6-Dinitrotoluene	0.25	U	0.71	0.25	mg/Kg	☆	10/27/23 17:35	10	MDJ
2-Chloronaphthalene	0.16	U	3.5	0.16	mg/Kg	☆	10/27/23 17:35	10	MDJ
2-Chlorophenol	0.12	U	3.5	0.12	mg/Kg	☆	10/27/23 17:35	10	MDJ
2-Methylphenol	0.13	U	3.5	0.13	mg/Kg	☆	10/27/23 17:35	10	MDJ
2-Nitroaniline	0.27	U	3.5	0.27	mg/Kg	☆	10/27/23 17:35	10	MDJ
2-Nitrophenol	0.35	U	3.5	0.35	mg/Kg	☆	10/27/23 17:35	10	MDJ
3,3'-Dichlorobenzidine	0.53	U	1.4	0.53	mg/Kg	☆	10/27/23 17:35	10	MDJ
3-Nitroaniline	0.83	U	3.5	0.83	mg/Kg	☆	10/27/23 17:35	10	MDJ
4,6-Dinitro-2-methylphenol	1.4	U	2.8	1.4	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Bromophenyl phenyl ether	0.14	U	3.5	0.14	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Chloro-3-methylphenol	0.20	U	3.5	0.20	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Chloroaniline	0.62	U	3.5	0.62	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Chlorophenyl phenyl ether	0.12	U	3.5	0.12	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Methylphenol	0.22	U	3.5	0.22	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Nitroaniline	0.40	U	3.5	0.40	mg/Kg	☆	10/27/23 17:35	10	MDJ
4-Nitrophenol	0.57	U	7.1	0.57	mg/Kg	☆	10/27/23 17:35	10	MDJ
Acenaphthylene	12		3.5	0.10	mg/Kg	☆	10/27/23 17:35	10	MDJ
Acetophenone	0.17	U	3.5	0.17	mg/Kg	☆	10/27/23 17:35	10	MDJ
Anthracene	49		3.5	0.11	mg/Kg	☆	10/27/23 17:35	10	MDJ
Atrazine	0.21	U	1.4	0.21	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzaldehyde	0.58	U J	3.5	0.58	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzo[a]anthracene	25		0.35	0.26	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzo[a]pyrene	20		0.35	0.093	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzo[b]fluoranthene	14		0.35	0.091	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzo[g,h,i]perylene	4.9		3.5	0.10	mg/Kg	☆	10/27/23 17:35	10	MDJ
Benzo[k]fluoranthene	5.8		0.35	0.069	mg/Kg	☆	10/27/23 17:35	10	MDJ
Bis(2-chloroethoxy)methane	0.27	U	3.5	0.27	mg/Kg	☆	10/27/23 17:35	10	MDJ
Bis(2-chloroethyl)ether	0.12	U	0.35	0.12	mg/Kg	☆	10/27/23 17:35	10	MDJ
Bis(2-ethylhexyl) phthalate	0.19	U	3.5	0.19	mg/Kg	☆	10/27/23 17:35	10	MDJ
Butyl benzyl phthalate	0.16	U	3.5	0.16	mg/Kg	☆	10/27/23 17:35	10	MDJ
Caprolactam	0.55	U	3.5	0.55	mg/Kg	☆	10/27/23 17:35	10	MDJ
Carbazole	1.2	J	3.5	0.13	mg/Kg	☆	10/27/23 17:35	10	MDJ
Chrysene	22		3.5	0.15	mg/Kg	☆	10/27/23 17:35	10	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: DUP20231024

Lab Sample ID: 460-291147-12

Date Collected: 10/24/23 00:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Dibenz(a,h)anthracene	1.4		0.35	0.15	mg/Kg	✱	10/27/23 17:35	10	MDJ
Dibenzofuran	6.5		3.5	0.12	mg/Kg	✱	10/27/23 17:35	10	MDJ
Diethyl phthalate	0.11	U	3.5	0.11	mg/Kg	✱	10/27/23 17:35	10	MDJ
Dimethyl phthalate	0.80	U	3.5	0.80	mg/Kg	✱	10/27/23 17:35	10	MDJ
Di-n-butyl phthalate	0.13	U	3.5	0.13	mg/Kg	✱	10/27/23 17:35	10	MDJ
Di-n-octyl phthalate	0.19	U	3.5	0.19	mg/Kg	✱	10/27/23 17:35	10	MDJ
Fluoranthene	51		3.5	0.12	mg/Kg	✱	10/27/23 17:35	10	MDJ
Fluorene	59		3.5	0.10	mg/Kg	✱	10/27/23 17:35	10	MDJ
Hexachlorobenzene	0.17	U	0.35	0.17	mg/Kg	✱	10/27/23 17:35	10	MDJ
Hexachlorobutadiene	0.075	U	0.71	0.075	mg/Kg	✱	10/27/23 17:35	10	MDJ
Hexachlorocyclopentadiene	R 0.31	U *	3.5	0.31	mg/Kg	✱	10/27/23 17:35	10	MDJ
Hexachloroethane	0.12	U	0.35	0.12	mg/Kg	✱	10/27/23 17:35	10	MDJ
Indeno[1,2,3-cd]pyrene	5.5		0.35	0.14	mg/Kg	✱	10/27/23 17:35	10	MDJ
Isophorone	1.0	U	1.4	1.0	mg/Kg	✱	10/27/23 17:35	10	MDJ
Nitrobenzene	0.19	U	0.35	0.19	mg/Kg	✱	10/27/23 17:35	10	MDJ
N-Nitrosodi-n-propylamine	0.25	U	0.35	0.25	mg/Kg	✱	10/27/23 17:35	10	MDJ
N-Nitrosodiphenylamine	0.29	U	3.5	0.29	mg/Kg	✱	10/27/23 17:35	10	MDJ
Pentachlorophenol	0.72	U	2.8	0.72	mg/Kg	✱	10/27/23 17:35	10	MDJ
Phenol	0.13	U	3.5	0.13	mg/Kg	✱	10/27/23 17:35	10	MDJ
Pyrene	72		3.5	0.087	mg/Kg	✱	10/27/23 17:35	10	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Ethylbenzene	39	J N	mg/Kg	✱	2.89	100-41-4	10/27/23 17:35	10	MDJ
Benzene, 1,2,3-trimethyl-	35	J N	mg/Kg	✱	4.07	526-73-8	10/27/23 17:35	10	MDJ
Indane	190	J N	mg/Kg	✱	4.41	496-11-7	10/27/23 17:35	10	MDJ
1H-Indene, 1-methyl-	32	J N	mg/Kg	✱	5.22	767-59-9	10/27/23 17:35	10	MDJ
2-Methylindene	41	J N	mg/Kg	✱	5.25	2177-47-1	10/27/23 17:35	10	MDJ
Benzo[b]thiophene	33	J N	mg/Kg	✱	5.53	95-15-8	10/27/23 17:35	10	MDJ
Naphthalene, 1-methyl-	92	J N	mg/Kg	✱	6.24	90-12-0	10/27/23 17:35	10	MDJ
Naphthalene, 1-ethyl-	40	J N	mg/Kg	✱	6.67	1127-76-0	10/27/23 17:35	10	MDJ
Naphthalene, 2,6-dimethyl-	34	J N	mg/Kg	✱	6.74	581-42-0	10/27/23 17:35	10	MDJ
Naphthalene, 2,3-dimethyl-	39	J N	mg/Kg	✱	6.81	581-40-8	10/27/23 17:35	10	MDJ
Naphthalene, 1,6-dimethyl-	26	J N	mg/Kg	✱	6.83	575-43-9	10/27/23 17:35	10	MDJ
Naphthalene, 1,5-dimethyl-	23	J N	mg/Kg	✱	6.92	571-61-9	10/27/23 17:35	10	MDJ
Dodecane, 2,6,11-trimethyl-	26	J N	mg/Kg	✱	8.03	31295-56-4	10/27/23 17:35	10	MDJ
Heptacosane	27	J N	mg/Kg	✱	8.47	593-49-7	10/27/23 17:35	10	MDJ
5H-Dibenzo[a,d]cycloheptene	53	J N	mg/Kg	✱	9.02	256-81-5	10/27/23 17:35	10	MDJ
Phenanthrene, 2-methyl-	51	J N	mg/Kg	✱	9.05	2531-84-2	10/27/23 17:35	10	MDJ
Unknown	57	J N	mg/Kg	✱	9.12	N/A	10/27/23 17:35	10	MDJ
2-Phenylnaphthalene	37	J N	mg/Kg	✱	9.30	35465-71-5	10/27/23 17:35	10	MDJ
Phenanthrene, 2,5-dimethyl-	25	J N	mg/Kg	✱	9.54	3674-66-6	10/27/23 17:35	10	MDJ
Unknown	34	J N	mg/Kg	✱	9.78	N/A	10/27/23 17:35	10	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	89		24 - 137	10/27/23 17:35	10	MDJ
2-Fluorobiphenyl	94		48 - 120	10/27/23 17:35	10	MDJ
2-Fluorophenol (Surr)	66		31 - 120	10/27/23 17:35	10	MDJ
Nitrobenzene-d5 (Surr)	78		38 - 120	10/27/23 17:35	10	MDJ
Phenol-d5 (Surr)	87		39 - 120	10/27/23 17:35	10	MDJ
Terphenyl-d14 (Surr)	89		25 - 126	10/27/23 17:35	10	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: DUP20231024

Lab Sample ID: 460-291147-12

Date Collected: 10/24/23 00:00

Matrix: Solid

Date Received: 10/25/23 19:00

Percent Solids: 93.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	180	D	17	0.49	mg/Kg	☼	10/28/23 06:41	50	YAH
Acenaphthene	130	D	17	0.50	mg/Kg	☼	10/28/23 06:41	50	YAH
Phenanthrene	180	D	17	0.71	mg/Kg	☼	10/28/23 06:41	50	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/28/23 06:41	50	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Naphthalene	740	D	35	0.61	mg/Kg	☼	10/28/23 07:05	100	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/28/23 07:05	100	YAH

Client Sample ID: Trip Blank

Lab Sample ID: 460-291147-13

Date Collected: 10/24/23 00:00

Matrix: Water

Date Received: 10/25/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		11/03/23 11:40	1	CJM
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		11/03/23 11:40	1	CJM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		11/03/23 11:40	1	CJM
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		11/03/23 11:40	1	CJM
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L		11/03/23 11:40	1	CJM
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		11/03/23 11:40	1	CJM
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L		11/03/23 11:40	1	CJM
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		11/03/23 11:40	1	CJM
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		11/03/23 11:40	1	CJM
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		11/03/23 11:40	1	CJM
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		11/03/23 11:40	1	CJM
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		11/03/23 11:40	1	CJM
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		11/03/23 11:40	1	CJM
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		11/03/23 11:40	1	CJM
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		11/03/23 11:40	1	CJM
2-Hexanone	1.1	U	5.0	1.1	ug/L		11/03/23 11:40	1	CJM
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		11/03/23 11:40	1	CJM
Acetone	4.4	U J	5.0	4.4	ug/L		11/03/23 11:40	1	CJM
Benzene	0.20	U	1.0	0.20	ug/L		11/03/23 11:40	1	CJM
Bromoform	0.54	U	1.0	0.54	ug/L		11/03/23 11:40	1	CJM
Bromomethane	0.55	U	1.0	0.55	ug/L		11/03/23 11:40	1	CJM
Carbon disulfide	0.82	U	1.0	0.82	ug/L		11/03/23 11:40	1	CJM
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		11/03/23 11:40	1	CJM
Chlorobenzene	0.38	U	1.0	0.38	ug/L		11/03/23 11:40	1	CJM
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		11/03/23 11:40	1	CJM
Chlorodibromomethane	0.29	J	1.0	0.28	ug/L		11/03/23 11:40	1	CJM
Chloroethane	0.32	U	1.0	0.32	ug/L		11/03/23 11:40	1	CJM
Chloroform	0.33	U	1.0	0.33	ug/L		11/03/23 11:40	1	CJM
Chloromethane	0.40	U	1.0	0.40	ug/L		11/03/23 11:40	1	CJM
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		11/03/23 11:40	1	CJM
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/03/23 11:40	1	CJM

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291147-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291147-13

Date Collected: 10/24/23 00:00

Matrix: Water

Date Received: 10/25/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyclohexane	0.32	U	1.0	0.32	ug/L		11/03/23 11:40	1	CJM
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		11/03/23 11:40	1	CJM
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		11/03/23 11:40	1	CJM
Ethylbenzene	0.30	U	1.0	0.30	ug/L		11/03/23 11:40	1	CJM
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		11/03/23 11:40	1	CJM
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		11/03/23 11:40	1	CJM
Methyl acetate	0.79	U	5.0	0.79	ug/L		11/03/23 11:40	1	CJM
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		11/03/23 11:40	1	CJM
Methylcyclohexane	0.71	U	1.0	0.71	ug/L		11/03/23 11:40	1	CJM
Methylene Chloride	0.32	U	1.0	0.32	ug/L		11/03/23 11:40	1	CJM
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		11/03/23 11:40	1	CJM
o-Xylene	0.36	U	1.0	0.36	ug/L		11/03/23 11:40	1	CJM
Styrene	0.42	U	1.0	0.42	ug/L		11/03/23 11:40	1	CJM
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		11/03/23 11:40	1	CJM
Toluene	0.38	U	1.0	0.38	ug/L		11/03/23 11:40	1	CJM
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		11/03/23 11:40	1	CJM
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		11/03/23 11:40	1	CJM
Trichloroethene	0.31	U	1.0	0.31	ug/L		11/03/23 11:40	1	CJM
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		11/03/23 11:40	1	CJM
Vinyl chloride	0.17	U	1.0	0.17	ug/L		11/03/23 11:40	1	CJM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	100		70 - 128	11/03/23 11:40	1	CJM
4-Bromofluorobenzene	96		76 - 120	11/03/23 11:40	1	CJM
Dibromofluoromethane (Surr)	105		77 - 132	11/03/23 11:40	1	CJM
Toluene-d8 (Surr)	98		80 - 120	11/03/23 11:40	1	CJM

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-291249-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52269R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-291249-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-100(16.0-17.0)-20231025	460-291249-1	Soil	10/25/2023		X	X			
SB-100(15.0-16.0)-20231025	460-291249-2	Soil	10/25/2023		X	X			
SB-119(22.0-23.0)-20231025	460-291249-3	Soil	10/25/2023		X	X			
SB-119(11.0-12.0)-20231025	460-291249-4	Soil	10/25/2023		X				
DUP-20231025-20231025	460-291249-5	Soil	10/25/2023	SB-100(15.0-16.0)-20231025	X	X			
TRIP BLANK-20231025	460-291249-6	Water	10/25/2023		X				

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-119(11.0-12.0)	ICV %D	Dichlorodifluoromethane	-21.2%
		Carbon disulfide	-22.6%
	CCV %D	Dichlorodifluoromethane	-41.6%
		Chloromethane	-23.8%
		Methyl acetate	-25.1%
SB-100(16.0-17.0) SB-100(15.0-16.0) SB-119(22.0-23.0) DUP-20231025	ICV %D	Dichlorofluoromethane	-20.7%
		Carbon disulfide	-35.7%
		Cyclohexane	-27.6%
		Methylcyclohexane	-21.8%
	CCV %D	Carbon disulfide	-30.5%
		Methyl acetate	-37.1%
		2-Butanone (MEK)	+29.6%
Trip Blank	ICV %D	Bromomethane	-23.3%

Data Usability Summary Report

Sample Locations	Initial/Continuing	Compound	Criteria
		Cyclohexane	-22.2%
		Methylcyclohexane	-22.4%
	CCV %D	Carbon disulfide	+63.8%
		Methyl acetate	+41.2%
		Cyclohexane	+23.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

Initial/Continuing	Criteria	Sample Result	Qualification

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-100(15.0-16.0)	1,1,2-Trichloroethane	<LL but >10%	<LL but >10%
	1,1-Dichloroethane	<LL but >10%	<LL but >10%
	1,2,3-Trichlorobenzene	<LL but >10%	<LL but >10%
	1,2,4-Trichlorobenzene	<LL but >10%	<LL but >10%
	1,2-Dibromo-3-Chloropropane	<LL but >10%	AC

Data Usability Summary Report

Sample Locations	Compound	MS Recovery	MSD Recovery
	1,2-Dichlorobenzene	<LL but >10%	<LL but >10%
	1,2-Dichloropropane	<LL but >10%	AC
	1,3-Dichlorobenzene	<LL but >10%	<LL but >10%
	1,4-Dichlorobenzene	<LL but >10%	<LL but >10%
	Carbon disulfide	<LL but >10%	<LL but >10%
	Chlorobenzene	<LL but >10%	<LL but >10%
	cis-1,3-Dichloropropene	<LL but >10%	AC
	Ethylbenzene	<LL but >10%	<LL but >10%
	Ethylene Dibromide	<LL but >10%	<LL but >10%
	Isopropylbenzene	<LL but >10%	<LL but >10%
	m-Xylene & p-Xylene	<LL but >10%	<LL but >10%
	o-Xylene	<LL but >10%	<LL but >10%
	Styrene	<LL but >10%	<LL but >10%
	Toluene	<LL but >10%	<LL but >10%
	trans-1,2-Dichloroethene	<LL but >10%	<LL but >10%
	trans-1,3-Dichloropropene	<LL but >10%	AC
	Acetone	AC	<LL but >10%
	cis-1,2-Dichloroethene	AC	<LL but >10%
	Cyclohexane	AC	<LL but >10%
	Methylcyclohexane	AC	<LL but >10%
	Tetrachloroethene	AC	<LL but >10%
	Trichlorofluoromethane	AC	<LL but >10%

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
SB-100(15.0-16.0)	1,2,3-Trichlorobenzene
	1,2,4-Trichlorobenzene
	Acetone
	Dichlorodifluoromethane
	1,4-Dioxane
	Trichlorofluoromethane

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The LCS/LCSD recoveries were within control limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-100(16.0-17.0)-20231025 SB-100(15.0-16.0)-20231025 SB-119(22.0-23.0)-20231025 DUP-20231025-20231025	Carbon disulfide	AC	>UL

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-100(15.0-16.0)-20231025/ DUP-20231025-20231025	2-Butanone (MEK)	0.0084	0.0084	AC
	Acetone	0.031	0.054	54.1 %
	Benzene	0.00092 U	0.001 J	AC
	Ethylbenzene	0.00092 U	0.001 J	AC
	m&p-Xylenes	0.00092 U	0.0024	AC
	o-Xylene	0.00092 U	0.0016	AC
	Styrene (Monomer)	0.00092 U	0.0009 J	AC
	Toluene	0.00041 J	0.0022	AC

Notes:

AC Acceptable

Acetone associated with sample locations SB-100(15.0-16.0)-20231025 and DUP-20231025-20231025 exhibited a field duplicate RPD greater than the control limit. The associated sample results from these sample locations for the listed analyte were qualified as estimated (J).

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X	X			
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-100(16.0-17.0)-20231025	ICV %D	Benzaldehyde	-58.4%
SB-100(15.0-16.0)-20231025			
SB-119(22.0-23.0)-20231025	CCV %D	Benzaldehyde	-42.1%
DUP-20231025-20231025			

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Data Usability Summary Report

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-100(15.0-16.0)	Hexachlorocyclopentadiene	<10%	<10%
	4-Nitroaniline	AC	<LL but >10%

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
SB-100(15.0-16.0)	4-Nitroaniline

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-100(16.0-17.0)-20231025 SB-100(15.0-16.0)-20231025 SB-119(22.0-23.0)-20231025 DUP-20231025-20231025	Hexachlorocyclopentadiene	<10%	<10%

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

Sample locations associated with LCS/LCSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
SB-100(16.0-17.0)-20231025 SB-100(15.0-16.0)-20231025 SB-119(22.0-23.0)-20231025 DUP-20231025-20231025	4-Chloroaniline

The criteria used to evaluate the RPD between the LCS/LCSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-100(15.0-16.0)-20231025/ DUP-20231025-20231025	2-Methylnaphthalene	0.017 J	0.024 J	AC
	Naphthalene	0.11 J	0.14 J	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as "Aldol condensation product" are laboratory artifacts and were qualified as rejected (R).

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-119(22.0-23.0)	Naphthalene	--	19 D	19 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-291249-1	10/25/2023	SW846/USEPA	SB-100(16.0-17.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-100(15.0-16.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D, MS/MSD%R/RPD, FIELD DUP %D SVOC – ICV/CCV %D, LCS/LCSD %R, MS/MSD%R/RPD
	10/25/2023	SW846/USEPA	SB-119(22.0-23.0)-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	SB-119(11.0-12.0)-20231025	Soil	no	--	--	--	--	SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	DUP-20231025-20231025	Soil	no	no	--	--	--	VOC – ICV/CCV %D, FIELD DUP %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/25/2023	SW846/USEPA	TRIP BLANK-20231025	Water	no	--	--	--	--	VOC – ICV/CCV %D

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: January 5, 2024

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Company Name: AIC405	Client Contact	Project Manager: Michael Sones	Site Contact: Tom Rolier	Date	COC No:
Address: 201 W Fayette St 13202		Tel/Email: A. Ched, J. Sones, M. Sones, Com	Lab Contact:	Carrier	of COCs
City/State/Zip: St. Louis, MO 63102		Analysis Turnaround Time			
Phone: 973-216-8217		☐ CALENDAR DAYS ☐ WORKING DAYS			
Fax:		TAT if different from Below			
Project Name: Con Edison O&S N.Y.		☐ 2 weeks			
Site/Company O&S N.Y.		☐ 1 week			
P.O.#		☐ 2 days			
		☐ 1 day			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
SB-100(160-170)	10/24/13	1532	G	Soil	6
SB-100(150-160)		1513			
SB-119(220-230)		1426			
SB-119(110-120)		1315			
ms/MSD		1513			
DUP-20231025	10/24/13				
+1.P BLANK	10/25				
Preservation Used 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown					
Special Instructions/IC Requirements & Comments					
Relinquished by: Tom Rolier	Custody Seal No	Relinquished by: AIC405	Date/Time: 10/23/13	Received by: AIC405	Company: AIC405
Relinquished by: AIC405		Relinquished by: AIC405	Date/Time: 10-26-23	Received by: AIC405	Company: AIC405
Relinquished by: AIC405		Relinquished by: AIC405	Date/Time: 10-26-23	Received by: AIC405	Company: AIC405
Relinquished by: AIC405		Relinquished by: AIC405	Date/Time: 10-26-23	Received by: AIC405	Company: AIC405

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(16.0-17.0)

Lab Sample ID: 460-291249-1

Date Collected: 10/25/23 15:32

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00022	U	0.00095	0.00022	mg/Kg	✱	11/06/23 22:51	1	AAT
1,1,2,2-Tetrachloroethane	0.00020	U	0.00095	0.00020	mg/Kg	✱	11/06/23 22:51	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00095	0.00029	mg/Kg	✱	11/06/23 22:51	1	AAT
1,1,2-Trichloroethane	0.00017	U	0.00095	0.00017	mg/Kg	✱	11/06/23 22:51	1	AAT
1,1-Dichloroethane	0.00020	U	0.00095	0.00020	mg/Kg	✱	11/06/23 22:51	1	AAT
1,1-Dichloroethene	0.00021	U	0.00095	0.00021	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2,3-Trichlorobenzene	0.00017	U	0.00095	0.00017	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2,4-Trichlorobenzene	0.00034	U	0.00095	0.00034	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2-Dibromo-3-Chloropropane	0.00044	U	0.00095	0.00044	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2-Dichlorobenzene	0.00034	U	0.00095	0.00034	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2-Dichloroethane	0.00028	U	0.00095	0.00028	mg/Kg	✱	11/06/23 22:51	1	AAT
1,2-Dichloropropane	0.00040	U	0.00095	0.00040	mg/Kg	✱	11/06/23 22:51	1	AAT
1,3-Dichlorobenzene	0.00035	U	0.00095	0.00035	mg/Kg	✱	11/06/23 22:51	1	AAT
1,4-Dichlorobenzene	0.00021	U	0.00095	0.00021	mg/Kg	✱	11/06/23 22:51	1	AAT
1,4-Dioxane	0.0087	U	0.095	0.0087	mg/Kg	✱	11/06/23 22:51	1	AAT
2-Butanone (MEK)	0.0066	J	0.0048	0.00035	mg/Kg	✱	11/06/23 22:51	1	AAT
2-Hexanone	0.0016	U	0.0048	0.0016	mg/Kg	✱	11/06/23 22:51	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0048	0.0015	mg/Kg	✱	11/06/23 22:51	1	AAT
Acetone	0.035		0.0057	0.0054	mg/Kg	✱	11/06/23 22:51	1	AAT
Benzene	0.00053	J	0.00095	0.00025	mg/Kg	✱	11/06/23 22:51	1	AAT
Bromoform	0.00040	U	0.00095	0.00040	mg/Kg	✱	11/06/23 22:51	1	AAT
Bromomethane	0.00095	U	0.0019	0.00095	mg/Kg	✱	11/06/23 22:51	1	AAT
Carbon disulfide	0.0016	J	0.00095	0.00025	mg/Kg	✱	11/06/23 22:51	1	AAT
Carbon tetrachloride	0.00037	U	0.00095	0.00037	mg/Kg	✱	11/06/23 22:51	1	AAT
Chlorobenzene	0.00017	U	0.00095	0.00017	mg/Kg	✱	11/06/23 22:51	1	AAT
Chlorobromomethane	0.00027	U	0.00095	0.00027	mg/Kg	✱	11/06/23 22:51	1	AAT
Chlorodibromomethane	0.00018	U	0.00095	0.00018	mg/Kg	✱	11/06/23 22:51	1	AAT
Chloroethane	0.00050	U	0.00095	0.00050	mg/Kg	✱	11/06/23 22:51	1	AAT
Chloroform	0.00093	U	0.00095	0.00093	mg/Kg	✱	11/06/23 22:51	1	AAT
Chloromethane	0.00041	U	0.00095	0.00041	mg/Kg	✱	11/06/23 22:51	1	AAT
cis-1,2-Dichloroethene	0.00034	U	0.00095	0.00034	mg/Kg	✱	11/06/23 22:51	1	AAT
cis-1,3-Dichloropropene	0.00026	U	0.00095	0.00026	mg/Kg	✱	11/06/23 22:51	1	AAT
Cyclohexane	0.00021	J	0.00095	0.00021	mg/Kg	✱	11/06/23 22:51	1	AAT
Dichlorobromomethane	0.00024	U	0.00095	0.00024	mg/Kg	✱	11/06/23 22:51	1	AAT
Dichlorodifluoromethane	0.00032	J	0.00095	0.00032	mg/Kg	✱	11/06/23 22:51	1	AAT
Ethylbenzene	0.00045	J	0.00095	0.00019	mg/Kg	✱	11/06/23 22:51	1	AAT
Ethylene Dibromide	0.00017	U	0.00095	0.00017	mg/Kg	✱	11/06/23 22:51	1	AAT
Isopropylbenzene	0.00027	U	0.00095	0.00027	mg/Kg	✱	11/06/23 22:51	1	AAT
Methyl acetate	0.0041	J	0.0048	0.0041	mg/Kg	✱	11/06/23 22:51	1	AAT
Methyl tert-butyl ether	0.00049	U	0.00095	0.00049	mg/Kg	✱	11/06/23 22:51	1	AAT
Methylcyclohexane	0.00048	J	0.00095	0.00048	mg/Kg	✱	11/06/23 22:51	1	AAT
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	✱	11/06/23 22:51	1	AAT
m-Xylene & p-Xylene	0.00017	U	0.00095	0.00017	mg/Kg	✱	11/06/23 22:51	1	AAT
o-Xylene	0.00018	U	0.00095	0.00018	mg/Kg	✱	11/06/23 22:51	1	AAT
Styrene	0.00026	U	0.00095	0.00026	mg/Kg	✱	11/06/23 22:51	1	AAT
Tetrachloroethene	0.00029	U	0.00095	0.00029	mg/Kg	✱	11/06/23 22:51	1	AAT
Toluene	0.00078	J	0.00095	0.00022	mg/Kg	✱	11/06/23 22:51	1	AAT
trans-1,2-Dichloroethene	0.00023	U	0.00095	0.00023	mg/Kg	✱	11/06/23 22:51	1	AAT
trans-1,3-Dichloropropene	0.00025	U	0.00095	0.00025	mg/Kg	✱	11/06/23 22:51	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(16.0-17.0)

Lab Sample ID: 460-291249-1

Date Collected: 10/25/23 15:32

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00031	U	0.00095	0.00031	mg/Kg	☼	11/06/23 22:51	1	AAT
Trichlorofluoromethane	0.00039	U	0.00095	0.00039	mg/Kg	☼	11/06/23 22:51	1	AAT
Vinyl chloride	0.00052	U	0.00095	0.00052	mg/Kg	☼	11/06/23 22:51	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene	0.010	J N	mg/Kg	☼	14.53	91-20-3	11/06/23 22:51	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	110		72 - 138	11/06/23 22:51	1	AAT
4-Bromofluorobenzene	93		63 - 139	11/06/23 22:51	1	AAT
Dibromofluoromethane (Surr)	109		54 - 150	11/06/23 22:51	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/06/23 22:51	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.014	U	0.41	0.014	mg/Kg	☼	10/29/23 18:01	1	YAH
1,2,4,5-Tetrachlorobenzene	0.013	U	0.41	0.013	mg/Kg	☼	10/29/23 18:01	1	YAH
2,2'-oxybis[1-chloropropane]	0.024	U	0.41	0.024	mg/Kg	☼	10/29/23 18:01	1	YAH
2,3,4,6-Tetrachlorophenol	0.028	U	0.41	0.028	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4,5-Trichlorophenol	0.041	U	0.41	0.041	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4,6-Trichlorophenol	0.052	U	0.16	0.052	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4-Dichlorophenol	0.026	U	0.16	0.026	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4-Dimethylphenol	0.048	U	0.41	0.048	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4-Dinitrophenol	0.20	U	0.33	0.20	mg/Kg	☼	10/29/23 18:01	1	YAH
2,4-Dinitrotoluene	0.044	U	0.082	0.044	mg/Kg	☼	10/29/23 18:01	1	YAH
2,6-Dinitrotoluene	0.029	U	0.082	0.029	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Chloronaphthalene	0.019	U	0.41	0.019	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Chlorophenol	0.014	U	0.41	0.014	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Methylnaphthalene	0.011	U	0.41	0.011	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Methylphenol	0.015	U	0.41	0.015	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Nitroaniline	0.031	U	0.41	0.031	mg/Kg	☼	10/29/23 18:01	1	YAH
2-Nitrophenol	0.041	U	0.41	0.041	mg/Kg	☼	10/29/23 18:01	1	YAH
3,3'-Dichlorobenzidine	0.061	U	0.16	0.061	mg/Kg	☼	10/29/23 18:01	1	YAH
3-Nitroaniline	0.096	U	0.41	0.096	mg/Kg	☼	10/29/23 18:01	1	YAH
4,6-Dinitro-2-methylphenol	0.17	U	0.33	0.17	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Bromophenyl phenyl ether	0.016	U	0.41	0.016	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Chloro-3-methylphenol	0.023	U	0.41	0.023	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Chloroaniline	0.072	U+UJ	0.41	0.072	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Chlorophenyl phenyl ether	0.014	U	0.41	0.014	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Methylphenol	0.025	U	0.41	0.025	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Nitroaniline	0.047	U	0.41	0.047	mg/Kg	☼	10/29/23 18:01	1	YAH
4-Nitrophenol	0.066	U	0.82	0.066	mg/Kg	☼	10/29/23 18:01	1	YAH
Acenaphthene	0.11	J	0.41	0.012	mg/Kg	☼	10/29/23 18:01	1	YAH
Acenaphthylene	0.012	J	0.41	0.012	mg/Kg	☼	10/29/23 18:01	1	YAH
Acetophenone	0.020	U	0.41	0.020	mg/Kg	☼	10/29/23 18:01	1	YAH
Anthracene	0.058	J	0.41	0.012	mg/Kg	☼	10/29/23 18:01	1	YAH
Atrazine	0.024	U	0.16	0.024	mg/Kg	☼	10/29/23 18:01	1	YAH
Benzaldehyde	0.067	U	0.41	0.067	mg/Kg	☼	10/29/23 18:01	1	YAH
Benzo[a]anthracene	0.031	U	0.041	0.031	mg/Kg	☼	10/29/23 18:01	1	YAH
Benzo[a]pyrene	0.011	U	0.041	0.011	mg/Kg	☼	10/29/23 18:01	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(16.0-17.0)

Lab Sample ID: 460-291249-1

Date Collected: 10/25/23 15:32

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 81.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.011	U	0.041	0.011	mg/Kg	✱	10/29/23 18:01	1	YAH
Benzo[g,h,i]perylene	0.012	U	0.41	0.012	mg/Kg	✱	10/29/23 18:01	1	YAH
Benzo[k]fluoranthene	0.0080	U	0.041	0.0080	mg/Kg	✱	10/29/23 18:01	1	YAH
Bis(2-chloroethoxy)methane	0.032	U	0.41	0.032	mg/Kg	✱	10/29/23 18:01	1	YAH
Bis(2-chloroethyl)ether	0.014	U	0.041	0.014	mg/Kg	✱	10/29/23 18:01	1	YAH
Bis(2-ethylhexyl) phthalate	0.021	U	0.41	0.021	mg/Kg	✱	10/29/23 18:01	1	YAH
Butyl benzyl phthalate	0.019	U	0.41	0.019	mg/Kg	✱	10/29/23 18:01	1	YAH
Caprolactam	0.063	U	0.41	0.063	mg/Kg	✱	10/29/23 18:01	1	YAH
Carbazole	0.054	J	0.41	0.015	mg/Kg	✱	10/29/23 18:01	1	YAH
Chrysene	0.017	U	0.41	0.017	mg/Kg	✱	10/29/23 18:01	1	YAH
Dibenz(a,h)anthracene	0.018	U	0.041	0.018	mg/Kg	✱	10/29/23 18:01	1	YAH
Dibenzofuran	0.014	J	0.41	0.014	mg/Kg	✱	10/29/23 18:01	1	YAH
Diethyl phthalate	0.013	U	0.41	0.013	mg/Kg	✱	10/29/23 18:01	1	YAH
Dimethyl phthalate	0.092	U	0.41	0.092	mg/Kg	✱	10/29/23 18:01	1	YAH
Di-n-butyl phthalate	0.015	U	0.41	0.015	mg/Kg	✱	10/29/23 18:01	1	YAH
Di-n-octyl phthalate	0.022	U	0.41	0.022	mg/Kg	✱	10/29/23 18:01	1	YAH
Fluoranthene	0.15	J	0.41	0.014	mg/Kg	✱	10/29/23 18:01	1	YAH
Fluorene	0.059	J	0.41	0.012	mg/Kg	✱	10/29/23 18:01	1	YAH
Hexachlorobenzene	0.019	U	0.041	0.019	mg/Kg	✱	10/29/23 18:01	1	YAH
Hexachlorobutadiene	0.0086	U	0.082	0.0086	mg/Kg	✱	10/29/23 18:01	1	YAH
Hexachlorocyclopentadiene	R 0.036	U *	0.41	0.036	mg/Kg	✱	10/29/23 18:01	1	YAH
Hexachloroethane	0.014	U	0.041	0.014	mg/Kg	✱	10/29/23 18:01	1	YAH
Indeno[1,2,3-cd]pyrene	0.016	U	0.041	0.016	mg/Kg	✱	10/29/23 18:01	1	YAH
Isophorone	0.12	U	0.16	0.12	mg/Kg	✱	10/29/23 18:01	1	YAH
Naphthalene	0.033	J	0.41	0.0070	mg/Kg	✱	10/29/23 18:01	1	YAH
Nitrobenzene	0.023	U	0.041	0.023	mg/Kg	✱	10/29/23 18:01	1	YAH
N-Nitrosodi-n-propylamine	0.030	U	0.041	0.030	mg/Kg	✱	10/29/23 18:01	1	YAH
N-Nitrosodiphenylamine	0.033	U	0.41	0.033	mg/Kg	✱	10/29/23 18:01	1	YAH
Pentachlorophenol	0.083	U	0.33	0.083	mg/Kg	✱	10/29/23 18:01	1	YAH
Phenanthrene	0.046	J	0.41	0.017	mg/Kg	✱	10/29/23 18:01	1	YAH
Phenol	0.015	U	0.41	0.015	mg/Kg	✱	10/29/23 18:01	1	YAH
Pyrene	0.19	J	0.41	0.010	mg/Kg	✱	10/29/23 18:01	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	R 0.55	A J	mg/Kg	✱	2.38	N/A	10/29/23 18:01	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	67		24 - 137	10/29/23 18:01	1	YAH
2-Fluorobiphenyl	74		48 - 120	10/29/23 18:01	1	YAH
2-Fluorophenol (Surr)	78		31 - 120	10/29/23 18:01	1	YAH
Nitrobenzene-d5 (Surr)	83		38 - 120	10/29/23 18:01	1	YAH
Phenol-d5 (Surr)	83		39 - 120	10/29/23 18:01	1	YAH
Terphenyl-d14 (Surr)	83		25 - 126	10/29/23 18:01	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(15.0-16.0)

Lab Sample ID: 460-291249-2

Date Collected: 10/25/23 15:13

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00092	0.00021	mg/Kg	☆	11/06/23 23:15	1	AAT
1,1,2,2-Tetrachloroethane	0.00020	U	0.00092	0.00020	mg/Kg	☆	11/06/23 23:15	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00092	0.00028	mg/Kg	☆	11/06/23 23:15	1	AAT
1,1,2-Trichloroethane	0.00016	~~UF1~~ UJ	0.00092	0.00016	mg/Kg	☆	11/06/23 23:15	1	AAT
1,1-Dichloroethane	0.00019	~~UF1~~ UJ	0.00092	0.00019	mg/Kg	☆	11/06/23 23:15	1	AAT
1,1-Dichloroethene	0.00021	U	0.00092	0.00021	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2,3-Trichlorobenzene	0.00017	~~UF1F2~~ UJ	0.00092	0.00017	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2,4-Trichlorobenzene	0.00033	~~UF1F2~~ UJ	0.00092	0.00033	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2-Dibromo-3-Chloropropane	0.00042	~~UF1~~ UJ	0.00092	0.00042	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2-Dichlorobenzene	0.00033	~~UF1~~ UJ	0.00092	0.00033	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2-Dichloroethane	0.00027	U	0.00092	0.00027	mg/Kg	☆	11/06/23 23:15	1	AAT
1,2-Dichloropropane	0.00039	~~UF1~~ UJ	0.00092	0.00039	mg/Kg	☆	11/06/23 23:15	1	AAT
1,3-Dichlorobenzene	0.00034	~~UF1~~ UJ	0.00092	0.00034	mg/Kg	☆	11/06/23 23:15	1	AAT
1,4-Dichlorobenzene	0.00021	~~UF1~~ UJ	0.00092	0.00021	mg/Kg	☆	11/06/23 23:15	1	AAT
1,4-Dioxane	0.0085	~~UF2~~ UJ	0.092	0.0085	mg/Kg	☆	11/06/23 23:15	1	AAT
2-Butanone (MEK)	0.0084		0.0046	0.00034	mg/Kg	☆	11/06/23 23:15	1	AAT
2-Hexanone	0.0016	U	0.0046	0.0016	mg/Kg	☆	11/06/23 23:15	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0046	0.0014	mg/Kg	☆	11/06/23 23:15	1	AAT
Acetone	0.031	~~F1F2~~ J	0.0055	0.0053	mg/Kg	☆	11/06/23 23:15	1	AAT
Benzene	0.00024	U	0.00092	0.00024	mg/Kg	☆	11/06/23 23:15	1	AAT
Bromoform	0.00039	U	0.00092	0.00039	mg/Kg	☆	11/06/23 23:15	1	AAT
Bromomethane	0.00092	U	0.0018	0.00092	mg/Kg	☆	11/06/23 23:15	1	AAT
Carbon disulfide	0.00025	~~UF1*~~ UJ	0.00092	0.00025	mg/Kg	☆	11/06/23 23:15	1	AAT
Carbon tetrachloride	0.00036	U	0.00092	0.00036	mg/Kg	☆	11/06/23 23:15	1	AAT
Chlorobenzene	0.00016	~~UF1~~ UJ	0.00092	0.00016	mg/Kg	☆	11/06/23 23:15	1	AAT
Chlorobromomethane	0.00026	U	0.00092	0.00026	mg/Kg	☆	11/06/23 23:15	1	AAT
Chlorodibromomethane	0.00018	U	0.00092	0.00018	mg/Kg	☆	11/06/23 23:15	1	AAT
Chloroethane	0.00048	U	0.00092	0.00048	mg/Kg	☆	11/06/23 23:15	1	AAT
Chloroform	0.00090	U	0.00092	0.00090	mg/Kg	☆	11/06/23 23:15	1	AAT
Chloromethane	0.00040	U	0.00092	0.00040	mg/Kg	☆	11/06/23 23:15	1	AAT
cis-1,2-Dichloroethene	0.00033	~~UF1~~ UJ	0.00092	0.00033	mg/Kg	☆	11/06/23 23:15	1	AAT
cis-1,3-Dichloropropene	0.00025	~~UF1~~ UJ	0.00092	0.00025	mg/Kg	☆	11/06/23 23:15	1	AAT
Cyclohexane	0.00020	~~UF1~~ UJ	0.00092	0.00020	mg/Kg	☆	11/06/23 23:15	1	AAT
Dichlorobromomethane	0.00024	U	0.00092	0.00024	mg/Kg	☆	11/06/23 23:15	1	AAT
Dichlorodifluoromethane	0.00031	~~UF2~~ UJ	0.00092	0.00031	mg/Kg	☆	11/06/23 23:15	1	AAT
Ethylbenzene	0.00018	~~UF1~~ UJ	0.00092	0.00018	mg/Kg	☆	11/06/23 23:15	1	AAT
Ethylene Dibromide	0.00017	~~UF1~~ UJ	0.00092	0.00017	mg/Kg	☆	11/06/23 23:15	1	AAT
Isopropylbenzene	0.00026	~~UF1~~ UJ	0.00092	0.00026	mg/Kg	☆	11/06/23 23:15	1	AAT
Methyl acetate	0.0040	U	0.0046	0.0040	mg/Kg	☆	11/06/23 23:15	1	AAT
Methyl tert-butyl ether	0.00047	U	0.00092	0.00047	mg/Kg	☆	11/06/23 23:15	1	AAT
Methylcyclohexane	0.00046	~~UF1~~ UJ	0.00092	0.00046	mg/Kg	☆	11/06/23 23:15	1	AAT
Methylene Chloride	0.0011	U	0.0018	0.0011	mg/Kg	☆	11/06/23 23:15	1	AAT
m-Xylene & p-Xylene	0.00016	~~UF1~~ UJ	0.00092	0.00016	mg/Kg	☆	11/06/23 23:15	1	AAT
o-Xylene	0.00018	~~UF1~~ UJ	0.00092	0.00018	mg/Kg	☆	11/06/23 23:15	1	AAT
Styrene	0.00026	~~UF1~~ UJ	0.00092	0.00026	mg/Kg	☆	11/06/23 23:15	1	AAT
Tetrachloroethene	0.00028	~~UF1~~ UJ	0.00092	0.00028	mg/Kg	☆	11/06/23 23:15	1	AAT
Toluene	0.00041	~~UF1~~ J	0.00092	0.00022	mg/Kg	☆	11/06/23 23:15	1	AAT
trans-1,2-Dichloroethene	0.00023	~~UF1~~ UJ	0.00092	0.00023	mg/Kg	☆	11/06/23 23:15	1	AAT
trans-1,3-Dichloropropene	0.00025	~~UF1~~ UJ	0.00092	0.00025	mg/Kg	☆	11/06/23 23:15	1	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(15.0-16.0)

Lab Sample ID: 460-291249-2

Date Collected: 10/25/23 15:13

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00030	U	0.00092	0.00030	mg/Kg	☼	11/06/23 23:15	1	AAT
Trichlorofluoromethane	0.00037	~~U~~ *F2 UJ	0.00092	0.00037	mg/Kg	☼	11/06/23 23:15	1	AAT
Vinyl chloride	0.00050	U	0.00092	0.00050	mg/Kg	☼	11/06/23 23:15	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/06/23 23:15	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	110		72 - 138	11/06/23 23:15	1	AAT
4-Bromofluorobenzene	93		63 - 139	11/06/23 23:15	1	AAT
Dibromofluoromethane (Surr)	111		54 - 150	11/06/23 23:15	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/06/23 23:15	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.013	U	0.38	0.013	mg/Kg	☼	10/29/23 16:54	1	YAH
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☼	10/29/23 16:54	1	YAH
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☼	10/29/23 16:54	1	YAH
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4-Dimethylphenol	0.045	U	0.38	0.045	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☼	10/29/23 16:54	1	YAH
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☼	10/29/23 16:54	1	YAH
2,6-Dinitrotoluene	0.028	U	0.077	0.028	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Methylnaphthalene	0.017	J	0.38	0.011	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☼	10/29/23 16:54	1	YAH
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☼	10/29/23 16:54	1	YAH
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	☼	10/29/23 16:54	1	YAH
3-Nitroaniline	0.090	U	0.38	0.090	mg/Kg	☼	10/29/23 16:54	1	YAH
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Chloroaniline	0.068	~~U~~ *4 UJ	0.38	0.068	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Nitroaniline	0.044	~~U~~ *F2 E1 UJ	0.38	0.044	mg/Kg	☼	10/29/23 16:54	1	YAH
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☼	10/29/23 16:54	1	YAH
Acenaphthene	0.011	U	0.38	0.011	mg/Kg	☼	10/29/23 16:54	1	YAH
Acenaphthylene	0.011	U	0.38	0.011	mg/Kg	☼	10/29/23 16:54	1	YAH
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☼	10/29/23 16:54	1	YAH
Anthracene	0.012	U	0.38	0.012	mg/Kg	☼	10/29/23 16:54	1	YAH
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	10/29/23 16:54	1	YAH
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	☼	10/29/23 16:54	1	YAH
Benzo[a]anthracene	0.029	U	0.038	0.029	mg/Kg	☼	10/29/23 16:54	1	YAH
Benzo[a]pyrene	0.010	U	0.038	0.010	mg/Kg	☼	10/29/23 16:54	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-100(15.0-16.0)

Lab Sample ID: 460-291249-2

Date Collected: 10/25/23 15:13

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 86.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.0098	U	0.038	0.0098	mg/Kg	✱	10/29/23 16:54	1	YAH
Benzo[g,h,i]perylene	0.011	U	0.38	0.011	mg/Kg	✱	10/29/23 16:54	1	YAH
Benzo[k]fluoranthene	0.0075	U	0.038	0.0075	mg/Kg	✱	10/29/23 16:54	1	YAH
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	✱	10/29/23 16:54	1	YAH
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	✱	10/29/23 16:54	1	YAH
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	✱	10/29/23 16:54	1	YAH
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	✱	10/29/23 16:54	1	YAH
Caprolactam	0.059	U	0.38	0.059	mg/Kg	✱	10/29/23 16:54	1	YAH
Carbazole	0.014	U	0.38	0.014	mg/Kg	✱	10/29/23 16:54	1	YAH
Chrysene	0.016	U	0.38	0.016	mg/Kg	✱	10/29/23 16:54	1	YAH
Dibenz(a,h)anthracene	0.016	U	0.038	0.016	mg/Kg	✱	10/29/23 16:54	1	YAH
Dibenzofuran	0.013	U	0.38	0.013	mg/Kg	✱	10/29/23 16:54	1	YAH
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	✱	10/29/23 16:54	1	YAH
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	✱	10/29/23 16:54	1	YAH
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	✱	10/29/23 16:54	1	YAH
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	✱	10/29/23 16:54	1	YAH
Fluoranthene	0.013	U	0.38	0.013	mg/Kg	✱	10/29/23 16:54	1	YAH
Fluorene	0.011	U	0.38	0.011	mg/Kg	✱	10/29/23 16:54	1	YAH
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	✱	10/29/23 16:54	1	YAH
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	✱	10/29/23 16:54	1	YAH
Hexachlorocyclopentadiene	R 0.033	U F1 *	0.38	0.033	mg/Kg	✱	10/29/23 16:54	1	YAH
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	✱	10/29/23 16:54	1	YAH
Indeno[1,2,3-cd]pyrene	0.015	U	0.038	0.015	mg/Kg	✱	10/29/23 16:54	1	YAH
Isophorone	0.11	U	0.15	0.11	mg/Kg	✱	10/29/23 16:54	1	YAH
Naphthalene	0.11	J	0.38	0.0066	mg/Kg	✱	10/29/23 16:54	1	YAH
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	✱	10/29/23 16:54	1	YAH
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	✱	10/29/23 16:54	1	YAH
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	✱	10/29/23 16:54	1	YAH
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	✱	10/29/23 16:54	1	YAH
Phenanthrene	0.016	U	0.38	0.016	mg/Kg	✱	10/29/23 16:54	1	YAH
Phenol	0.014	U	0.38	0.014	mg/Kg	✱	10/29/23 16:54	1	YAH
Pyrene	0.0095	U	0.38	0.0095	mg/Kg	✱	10/29/23 16:54	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	R 0.47	A J	mg/Kg	✱	2.38	N/A	10/29/23 16:54	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	10/29/23 16:54	1	YAH
2-Fluorobiphenyl	77		48 - 120	10/29/23 16:54	1	YAH
2-Fluorophenol (Surr)	83		31 - 120	10/29/23 16:54	1	YAH
Nitrobenzene-d5 (Surr)	86		38 - 120	10/29/23 16:54	1	YAH
Phenol-d5 (Surr)	87		39 - 120	10/29/23 16:54	1	YAH
Terphenyl-d14 (Surr)	88		25 - 126	10/29/23 16:54	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-119(22.0-23.0)

Lab Sample ID: 460-291249-3

Date Collected: 10/25/23 14:26

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.00099	0.00023	mg/Kg	☆	11/06/23 23:40	1	AAT
1,1,2,2-Tetrachloroethane	0.00021	U	0.00099	0.00021	mg/Kg	☆	11/06/23 23:40	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00099	0.00030	mg/Kg	☆	11/06/23 23:40	1	AAT
1,1,2-Trichloroethane	0.00018	U	0.00099	0.00018	mg/Kg	☆	11/06/23 23:40	1	AAT
1,1-Dichloroethane	0.00020	U	0.00099	0.00020	mg/Kg	☆	11/06/23 23:40	1	AAT
1,1-Dichloroethene	0.00022	U	0.00099	0.00022	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2,3-Trichlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2,4-Trichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2-Dibromo-3-Chloropropane	0.00046	U	0.00099	0.00046	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2-Dichloroethane	0.00029	U	0.00099	0.00029	mg/Kg	☆	11/06/23 23:40	1	AAT
1,2-Dichloropropane	0.00042	U	0.00099	0.00042	mg/Kg	☆	11/06/23 23:40	1	AAT
1,3-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☆	11/06/23 23:40	1	AAT
1,4-Dichlorobenzene	0.00022	U	0.00099	0.00022	mg/Kg	☆	11/06/23 23:40	1	AAT
1,4-Dioxane	0.0091	U	0.099	0.0091	mg/Kg	☆	11/06/23 23:40	1	AAT
2-Butanone (MEK)	0.0082	J	0.0050	0.00037	mg/Kg	☆	11/06/23 23:40	1	AAT
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg	☆	11/06/23 23:40	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0050	0.0015	mg/Kg	☆	11/06/23 23:40	1	AAT
Acetone	0.038		0.0060	0.0057	mg/Kg	☆	11/06/23 23:40	1	AAT
Benzene	0.00031	J	0.00099	0.00026	mg/Kg	☆	11/06/23 23:40	1	AAT
Bromoform	0.00042	U	0.00099	0.00042	mg/Kg	☆	11/06/23 23:40	1	AAT
Bromomethane	0.00099	U	0.0020	0.00099	mg/Kg	☆	11/06/23 23:40	1	AAT
Carbon disulfide	0.00026	U	0.00099	0.00026	mg/Kg	☆	11/06/23 23:40	1	AAT
Carbon tetrachloride	0.00038	U	0.00099	0.00038	mg/Kg	☆	11/06/23 23:40	1	AAT
Chlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	☆	11/06/23 23:40	1	AAT
Chlorobromomethane	0.00028	U	0.00099	0.00028	mg/Kg	☆	11/06/23 23:40	1	AAT
Chlorodibromomethane	0.00019	U	0.00099	0.00019	mg/Kg	☆	11/06/23 23:40	1	AAT
Chloroethane	0.00052	U	0.00099	0.00052	mg/Kg	☆	11/06/23 23:40	1	AAT
Chloroform	0.00096	U	0.00099	0.00096	mg/Kg	☆	11/06/23 23:40	1	AAT
Chloromethane	0.00043	U	0.00099	0.00043	mg/Kg	☆	11/06/23 23:40	1	AAT
cis-1,2-Dichloroethene	0.00036	U	0.00099	0.00036	mg/Kg	☆	11/06/23 23:40	1	AAT
cis-1,3-Dichloropropene	0.00027	U	0.00099	0.00027	mg/Kg	☆	11/06/23 23:40	1	AAT
Cyclohexane	0.00022	U	0.00099	0.00022	mg/Kg	☆	11/06/23 23:40	1	AAT
Dichlorobromomethane	0.00026	U	0.00099	0.00026	mg/Kg	☆	11/06/23 23:40	1	AAT
Dichlorodifluoromethane	0.00034	U	0.00099	0.00034	mg/Kg	☆	11/06/23 23:40	1	AAT
Ethylbenzene	0.00020	U	0.00099	0.00020	mg/Kg	☆	11/06/23 23:40	1	AAT
Ethylene Dibromide	0.00018	U	0.00099	0.00018	mg/Kg	☆	11/06/23 23:40	1	AAT
Isopropylbenzene	0.00028	U	0.00099	0.00028	mg/Kg	☆	11/06/23 23:40	1	AAT
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg	☆	11/06/23 23:40	1	AAT
Methyl tert-butyl ether	0.00051	U	0.00099	0.00051	mg/Kg	☆	11/06/23 23:40	1	AAT
Methylcyclohexane	0.00050	U	0.00099	0.00050	mg/Kg	☆	11/06/23 23:40	1	AAT
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☆	11/06/23 23:40	1	AAT
m-Xylene & p-Xylene	0.00017	U	0.00099	0.00017	mg/Kg	☆	11/06/23 23:40	1	AAT
o-Xylene	0.00019	U	0.00099	0.00019	mg/Kg	☆	11/06/23 23:40	1	AAT
Styrene	0.00028	U	0.00099	0.00028	mg/Kg	☆	11/06/23 23:40	1	AAT
Tetrachloroethene	0.00030	U	0.00099	0.00030	mg/Kg	☆	11/06/23 23:40	1	AAT
Toluene	0.00049	J	0.00099	0.00023	mg/Kg	☆	11/06/23 23:40	1	AAT
trans-1,2-Dichloroethene	0.00024	U	0.00099	0.00024	mg/Kg	☆	11/06/23 23:40	1	AAT
trans-1,3-Dichloropropene	0.00026	U	0.00099	0.00026	mg/Kg	☆	11/06/23 23:40	1	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-119(22.0-23.0)

Lab Sample ID: 460-291249-3

Date Collected: 10/25/23 14:26

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00032	U	0.00099	0.00032	mg/Kg	☼	11/06/23 23:40	1	AAT
Trichlorofluoromethane	0.00040	U	0.00099	0.00040	mg/Kg	☼	11/06/23 23:40	1	AAT
Vinyl chloride	0.00054	U	0.00099	0.00054	mg/Kg	☼	11/06/23 23:40	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/06/23 23:40	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		72 - 138	11/06/23 23:40	1	AAT
4-Bromofluorobenzene	88		63 - 139	11/06/23 23:40	1	AAT
Dibromofluoromethane (Surr)	109		54 - 150	11/06/23 23:40	1	AAT
Toluene-d8 (Surr)	94		71 - 126	11/06/23 23:40	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.3		0.41	0.014	mg/Kg	☼	10/30/23 00:24	1	YAH
1,2,4,5-Tetrachlorobenzene	0.013	U	0.41	0.013	mg/Kg	☼	10/30/23 00:24	1	YAH
2,2'-oxybis[1-chloropropane]	0.025	U	0.41	0.025	mg/Kg	☼	10/30/23 00:24	1	YAH
2,3,4,6-Tetrachlorophenol	0.028	U	0.41	0.028	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4,5-Trichlorophenol	0.042	U	0.41	0.042	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4,6-Trichlorophenol	0.053	U	0.17	0.053	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4-Dichlorophenol	0.027	U	0.17	0.027	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4-Dimethylphenol	0.049	U	0.41	0.049	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4-Dinitrophenol	0.20	U	0.33	0.20	mg/Kg	☼	10/30/23 00:24	1	YAH
2,4-Dinitrotoluene	0.045	U	0.084	0.045	mg/Kg	☼	10/30/23 00:24	1	YAH
2,6-Dinitrotoluene	0.030	U	0.084	0.030	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Chloronaphthalene	0.019	U	0.41	0.019	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Chlorophenol	0.015	U	0.41	0.015	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Methylnaphthalene	7.8		0.41	0.012	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Methylphenol	0.015	U	0.41	0.015	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Nitroaniline	0.032	U	0.41	0.032	mg/Kg	☼	10/30/23 00:24	1	YAH
2-Nitrophenol	0.041	U	0.41	0.041	mg/Kg	☼	10/30/23 00:24	1	YAH
3,3'-Dichlorobenzidine	0.063	U	0.17	0.063	mg/Kg	☼	10/30/23 00:24	1	YAH
3-Nitroaniline	0.098	U	0.41	0.098	mg/Kg	☼	10/30/23 00:24	1	YAH
4,6-Dinitro-2-methylphenol	0.17	U	0.33	0.17	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Bromophenyl phenyl ether	0.016	U	0.41	0.016	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Chloro-3-methylphenol	0.023	U	0.41	0.023	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Chloroaniline	0.073	U-4 UJ	0.41	0.073	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Chlorophenyl phenyl ether	0.015	U	0.41	0.015	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Methylphenol	0.026	U	0.41	0.026	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Nitroaniline	0.048	U	0.41	0.048	mg/Kg	☼	10/30/23 00:24	1	YAH
4-Nitrophenol	0.067	U	0.84	0.067	mg/Kg	☼	10/30/23 00:24	1	YAH
Acenaphthene	0.63		0.41	0.012	mg/Kg	☼	10/30/23 00:24	1	YAH
Acenaphthylene	3.1		0.41	0.012	mg/Kg	☼	10/30/23 00:24	1	YAH
Acetophenone	0.020	U	0.41	0.020	mg/Kg	☼	10/30/23 00:24	1	YAH
Anthracene	3.1		0.41	0.013	mg/Kg	☼	10/30/23 00:24	1	YAH
Atrazine	0.024	U	0.17	0.024	mg/Kg	☼	10/30/23 00:24	1	YAH
Benzaldehyde	0.068	U	0.41	0.068	mg/Kg	☼	10/30/23 00:24	1	YAH
Benzo[a]anthracene	2.2		0.041	0.031	mg/Kg	☼	10/30/23 00:24	1	YAH
Benzo[a]pyrene	1.9		0.041	0.011	mg/Kg	☼	10/30/23 00:24	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-119(22.0-23.0)

Lab Sample ID: 460-291249-3

Date Collected: 10/25/23 14:26

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.8

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	1.5		0.041	0.011	mg/Kg	☼	10/30/23 00:24	1	YAH
Benzo[g,h,i]perylene	0.64		0.41	0.012	mg/Kg	☼	10/30/23 00:24	1	YAH
Benzo[k]fluoranthene	0.62		0.041	0.0081	mg/Kg	☼	10/30/23 00:24	1	YAH
Bis(2-chloroethoxy)methane	0.032	U	0.41	0.032	mg/Kg	☼	10/30/23 00:24	1	YAH
Bis(2-chloroethyl)ether	0.014	U	0.041	0.014	mg/Kg	☼	10/30/23 00:24	1	YAH
Bis(2-ethylhexyl) phthalate	0.022	U	0.41	0.022	mg/Kg	☼	10/30/23 00:24	1	YAH
Butyl benzyl phthalate	0.019	U	0.41	0.019	mg/Kg	☼	10/30/23 00:24	1	YAH
Caprolactam	0.064	U	0.41	0.064	mg/Kg	☼	10/30/23 00:24	1	YAH
Carbazole	0.38	J	0.41	0.016	mg/Kg	☼	10/30/23 00:24	1	YAH
Chrysene	1.9		0.41	0.017	mg/Kg	☼	10/30/23 00:24	1	YAH
Dibenz(a,h)anthracene	0.20		0.041	0.018	mg/Kg	☼	10/30/23 00:24	1	YAH
Dibenzofuran	0.94		0.41	0.014	mg/Kg	☼	10/30/23 00:24	1	YAH
Diethyl phthalate	0.013	U	0.41	0.013	mg/Kg	☼	10/30/23 00:24	1	YAH
Dimethyl phthalate	0.094	U	0.41	0.094	mg/Kg	☼	10/30/23 00:24	1	YAH
Di-n-butyl phthalate	0.016	U	0.41	0.016	mg/Kg	☼	10/30/23 00:24	1	YAH
Di-n-octyl phthalate	0.022	U	0.41	0.022	mg/Kg	☼	10/30/23 00:24	1	YAH
Fluoranthene	3.9		0.41	0.014	mg/Kg	☼	10/30/23 00:24	1	YAH
Fluorene	3.6		0.41	0.012	mg/Kg	☼	10/30/23 00:24	1	YAH
Hexachlorobenzene	0.020	U	0.041	0.020	mg/Kg	☼	10/30/23 00:24	1	YAH
Hexachlorobutadiene	0.0088	U	0.084	0.0088	mg/Kg	☼	10/30/23 00:24	1	YAH
Hexachlorocyclopentadiene	R 0.036	U *	0.41	0.036	mg/Kg	☼	10/30/23 00:24	1	YAH
Hexachloroethane	0.014	U	0.041	0.014	mg/Kg	☼	10/30/23 00:24	1	YAH
Indeno[1,2,3-cd]pyrene	0.75		0.041	0.016	mg/Kg	☼	10/30/23 00:24	1	YAH
Isophorone	0.12	U	0.17	0.12	mg/Kg	☼	10/30/23 00:24	1	YAH
Nitrobenzene	0.023	U	0.041	0.023	mg/Kg	☼	10/30/23 00:24	1	YAH
N-Nitrosodi-n-propylamine	0.030	U	0.041	0.030	mg/Kg	☼	10/30/23 00:24	1	YAH
N-Nitrosodiphenylamine	0.034	U	0.41	0.034	mg/Kg	☼	10/30/23 00:24	1	YAH
Pentachlorophenol	0.085	U	0.33	0.085	mg/Kg	☼	10/30/23 00:24	1	YAH
Phenanthrene	9.9		0.41	0.017	mg/Kg	☼	10/30/23 00:24	1	YAH
Phenol	0.015	U	0.41	0.015	mg/Kg	☼	10/30/23 00:24	1	YAH
Pyrene	5.9		0.41	0.010	mg/Kg	☼	10/30/23 00:24	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indene	1.6	J N	mg/Kg	☼	4.17	95-13-6	10/30/23 00:24	1	YAH
Naphthalene, 1-methyl-	6.2	J N	mg/Kg	☼	6.01	90-12-0	10/30/23 00:24	1	YAH
Naphthalene, 2,6-dimethyl-	1.9	J N	mg/Kg	☼	6.53	581-42-0	10/30/23 00:24	1	YAH
Naphthalene, 1,3-dimethyl-	2.1	J N	mg/Kg	☼	6.60	575-41-7	10/30/23 00:24	1	YAH
Naphthalene, 1,7-dimethyl-	1.2	J N	mg/Kg	☼	6.63	575-37-1	10/30/23 00:24	1	YAH
Naphthalene, 2,3-dimethyl-	1.2	J N	mg/Kg	☼	6.72	581-40-8	10/30/23 00:24	1	YAH
Unknown	0.91	J N	mg/Kg	☼	7.68	N/A	10/30/23 00:24	1	YAH
9H-Fluorene, 1-methyl-	0.99	J N	mg/Kg	☼	8.00	1730-37-6	10/30/23 00:24	1	YAH
Dibenzothiophene	1.2	J N	mg/Kg	☼	8.27	132-65-0	10/30/23 00:24	1	YAH
Anthracene, 2-methyl-	1.9	J N	mg/Kg	☼	8.87	613-12-7	10/30/23 00:24	1	YAH
Phenanthrene, 2-methyl-	2.1	J N	mg/Kg	☼	8.90	2531-84-2	10/30/23 00:24	1	YAH
Anthracene, 1-methyl-	0.88	J N	mg/Kg	☼	8.94	610-48-0	10/30/23 00:24	1	YAH
4H-Cyclopenta[def]phenanthrene	3.1	J N	mg/Kg	☼	8.98	203-64-5	10/30/23 00:24	1	YAH
Phenanthrene, 1-methyl-	1.3	J N	mg/Kg	☼	9.00	832-69-9	10/30/23 00:24	1	YAH
2-Phenylnaphthalene	1.1	J N	mg/Kg	☼	9.17	35465-71-5	10/30/23 00:24	1	YAH
Phenanthrene, 2,5-dimethyl-	0.96	J N	mg/Kg	☼	9.41	3674-66-6	10/30/23 00:24	1	YAH
Unknown	0.79	J N	mg/Kg	☼	9.44	N/A	10/30/23 00:24	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-119(22.0-23.0)

Lab Sample ID: 460-291249-3

Date Collected: 10/25/23 14:26

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.8

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	1.4	J N	mg/Kg	⊛	9.65	N/A	10/30/23 00:24	1	YAH
Fluoranthene, 2-methyl-	0.77	J N	mg/Kg	⊛	10.11	33543-31-6	10/30/23 00:24	1	YAH
Perylene	0.87	J N	mg/Kg	⊛	12.70	198-55-0	10/30/23 00:24	1	YAH
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	68		24 - 137				10/30/23 00:24	1	YAH
2-Fluorobiphenyl	82		48 - 120				10/30/23 00:24	1	YAH
2-Fluorophenol (Surr)	83		31 - 120				10/30/23 00:24	1	YAH
Nitrobenzene-d5 (Surr)	90		38 - 120				10/30/23 00:24	1	YAH
Phenol-d5 (Surr)	88		39 - 120				10/30/23 00:24	1	YAH
Terphenyl-d14 (Surr)	91		25 - 126				10/30/23 00:24	1	YAH

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Naphthalene	19	D	0.83	0.014	mg/Kg	⊛	10/31/23 00:27	2	MME
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/31/23 00:27	2	MME

Client Sample ID: SB-119(11.0-12.0)

Lab Sample ID: 460-291249-4

Date Collected: 10/25/23 13:15

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.33	U	1.2	0.33	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,1,2,2-Tetrachloroethane	0.23	U	1.2	0.23	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.39	U	1.2	0.39	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,1,2-Trichloroethane	0.24	U	1.2	0.24	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,1-Dichloroethane	0.28	U	1.2	0.28	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,1-Dichloroethene	0.31	U	1.2	0.31	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2,3-Trichlorobenzene	0.41	U	1.2	0.41	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2,4-Trichlorobenzene	0.31	U	1.2	0.31	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2-Dibromo-3-Chloropropane	0.25	U	1.2	0.25	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2-Dichlorobenzene	0.26	U	1.2	0.26	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2-Dichloroethane	0.29	U	1.2	0.29	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,2-Dichloropropane	0.21	U	1.2	0.21	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,3-Dichlorobenzene	0.38	U	1.2	0.38	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,4-Dichlorobenzene	0.39	U	1.2	0.39	mg/Kg	⊛	10/30/23 04:52	500	MZS
1,4-Dioxane	33	U	58	33	mg/Kg	⊛	10/30/23 04:52	500	MZS
2-Butanone (MEK)	2.6	U	5.8	2.6	mg/Kg	⊛	10/30/23 04:52	500	MZS
2-Hexanone	1.3	U	5.8	1.3	mg/Kg	⊛	10/30/23 04:52	500	MZS
4-Methyl-2-pentanone (MIBK)	1.5	U	5.8	1.5	mg/Kg	⊛	10/30/23 04:52	500	MZS
Acetone	5.1	U	5.8	5.1	mg/Kg	⊛	10/30/23 04:52	500	MZS
Benzene	140		1.2	0.23	mg/Kg	⊛	10/30/23 04:52	500	MZS
Bromoform	0.21	U	1.2	0.21	mg/Kg	⊛	10/30/23 04:52	500	MZS
Bromomethane	0.64	U	1.2	0.64	mg/Kg	⊛	10/30/23 04:52	500	MZS
Carbon disulfide	0.78	U J	1.2	0.78	mg/Kg	⊛	10/30/23 04:52	500	MZS
Carbon tetrachloride	0.38	U	1.2	0.38	mg/Kg	⊛	10/30/23 04:52	500	MZS
Chlorobenzene	0.28	U	1.2	0.28	mg/Kg	⊛	10/30/23 04:52	500	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: SB-119(11.0-12.0)

Lab Sample ID: 460-291249-4

Date Collected: 10/25/23 13:15

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobromomethane	0.35	U	1.2	0.35	mg/Kg	☼	10/30/23 04:52	500	MZS
Chlorodibromomethane	0.26	U	1.2	0.26	mg/Kg	☼	10/30/23 04:52	500	MZS
Chloroethane	0.43	U	1.2	0.43	mg/Kg	☼	10/30/23 04:52	500	MZS
Chloroform	0.26	U	1.2	0.26	mg/Kg	☼	10/30/23 04:52	500	MZS
Chloromethane	0.47	U J	1.2	0.47	mg/Kg	☼	10/30/23 04:52	500	MZS
cis-1,2-Dichloroethene	0.30	U	1.2	0.30	mg/Kg	☼	10/30/23 04:52	500	MZS
cis-1,3-Dichloropropene	0.26	U	1.2	0.26	mg/Kg	☼	10/30/23 04:52	500	MZS
Cyclohexane	0.46	J	1.2	0.30	mg/Kg	☼	10/30/23 04:52	500	MZS
Dichlorobromomethane	0.17	U	1.2	0.17	mg/Kg	☼	10/30/23 04:52	500	MZS
Dichlorodifluoromethane	0.36	U J	1.2	0.36	mg/Kg	☼	10/30/23 04:52	500	MZS
Ethylbenzene	320		1.2	0.35	mg/Kg	☼	10/30/23 04:52	500	MZS
Ethylene Dibromide	0.22	U	1.2	0.22	mg/Kg	☼	10/30/23 04:52	500	MZS
Isopropylbenzene	12		1.2	0.37	mg/Kg	☼	10/30/23 04:52	500	MZS
Methyl acetate	0.91	U J	5.8	0.91	mg/Kg	☼	10/30/23 04:52	500	MZS
Methyl tert-butyl ether	0.25	U	1.2	0.25	mg/Kg	☼	10/30/23 04:52	500	MZS
Methylcyclohexane	4.2		1.2	0.84	mg/Kg	☼	10/30/23 04:52	500	MZS
Methylene Chloride	0.24	U	1.2	0.24	mg/Kg	☼	10/30/23 04:52	500	MZS
m-Xylene & p-Xylene	270		1.2	0.33	mg/Kg	☼	10/30/23 04:52	500	MZS
o-Xylene	120		1.2	0.37	mg/Kg	☼	10/30/23 04:52	500	MZS
Styrene	64		1.2	0.20	mg/Kg	☼	10/30/23 04:52	500	MZS
Tetrachloroethene	0.42	U	1.2	0.42	mg/Kg	☼	10/30/23 04:52	500	MZS
Toluene	330		1.2	0.29	mg/Kg	☼	10/30/23 04:52	500	MZS
trans-1,2-Dichloroethene	0.21	U	1.2	0.21	mg/Kg	☼	10/30/23 04:52	500	MZS
trans-1,3-Dichloropropene	0.26	U	1.2	0.26	mg/Kg	☼	10/30/23 04:52	500	MZS
Trichloroethene	0.26	U	1.2	0.26	mg/Kg	☼	10/30/23 04:52	500	MZS
Trichlorofluoromethane	0.37	U	1.2	0.37	mg/Kg	☼	10/30/23 04:52	500	MZS
Vinyl chloride	0.23	U	1.2	0.23	mg/Kg	☼	10/30/23 04:52	500	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-3-methyl-	110	J N	mg/Kg	☼	11.02	620-14-4	10/30/23 04:52	500	MZS
Benzene, 1,2,4-trimethyl-	96	J N	mg/Kg	☼	11.64	95-63-6	10/30/23 04:52	500	MZS
Benzene, 1-ethenyl-3-methyl-	89	J N	mg/Kg	☼	11.72	100-80-1	10/30/23 04:52	500	MZS
Indane	210	J N	mg/Kg	☼	12.22	496-11-7	10/30/23 04:52	500	MZS
Indene	540	J N	mg/Kg	☼	12.40	95-13-6	10/30/23 04:52	500	MZS
Unknown	81	J N	mg/Kg	☼	13.24	N/A	10/30/23 04:52	500	MZS
2-Methylindene	93	J N	mg/Kg	☼	13.29	2177-47-1	10/30/23 04:52	500	MZS
Naphthalene	1100	J N	mg/Kg	☼	13.58	91-20-3	10/30/23 04:52	500	MZS
Naphthalene, 2-methyl-	220	J N	mg/Kg	☼	14.35	91-57-6	10/30/23 04:52	500	MZS
Naphthalene, 1-methyl-	120	J N	mg/Kg	☼	14.50	90-12-0	10/30/23 04:52	500	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	124		68 - 150	10/30/23 04:52	500	MZS
4-Bromofluorobenzene	114		70 - 141	10/30/23 04:52	500	MZS
Dibromofluoromethane (Surr)	108		68 - 142	10/30/23 04:52	500	MZS
Toluene-d8 (Surr)	119		73 - 147	10/30/23 04:52	500	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: DUP-20231025

Lab Sample ID: 460-291249-5

Date Collected: 10/25/23 00:00

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/07/23 00:05	1	AAT
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	11/07/23 00:05	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/07/23 00:05	1	AAT
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/07/23 00:05	1	AAT
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/07/23 00:05	1	AAT
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2-Dibromo-3-Chloropropane	0.00049	U	0.0011	0.00049	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/07/23 00:05	1	AAT
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	✱	11/07/23 00:05	1	AAT
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	✱	11/07/23 00:05	1	AAT
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	✱	11/07/23 00:05	1	AAT
1,4-Dioxane	0.0097	U	0.11	0.0097	mg/Kg	✱	11/07/23 00:05	1	AAT
2-Butanone (MEK)	0.0084	J	0.0053	0.00039	mg/Kg	✱	11/07/23 00:05	1	AAT
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	✱	11/07/23 00:05	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0053	0.0016	mg/Kg	✱	11/07/23 00:05	1	AAT
Acetone	0.054	J	0.0063	0.0060	mg/Kg	✱	11/07/23 00:05	1	AAT
Benzene	0.0010	J	0.0011	0.00027	mg/Kg	✱	11/07/23 00:05	1	AAT
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	✱	11/07/23 00:05	1	AAT
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	✱	11/07/23 00:05	1	AAT
Carbon disulfide	0.00028	U* UJ	0.0011	0.00028	mg/Kg	✱	11/07/23 00:05	1	AAT
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	✱	11/07/23 00:05	1	AAT
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/07/23 00:05	1	AAT
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	✱	11/07/23 00:05	1	AAT
Chlorodibromomethane	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/07/23 00:05	1	AAT
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	✱	11/07/23 00:05	1	AAT
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	✱	11/07/23 00:05	1	AAT
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	✱	11/07/23 00:05	1	AAT
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/07/23 00:05	1	AAT
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	✱	11/07/23 00:05	1	AAT
Cyclohexane	0.00023	U J	0.0011	0.00023	mg/Kg	✱	11/07/23 00:05	1	AAT
Dichlorobromomethane	0.00027	U	0.0011	0.00027	mg/Kg	✱	11/07/23 00:05	1	AAT
Dichlorodifluoromethane	0.00036	U J	0.0011	0.00036	mg/Kg	✱	11/07/23 00:05	1	AAT
Ethylbenzene	0.0010	J	0.0011	0.00021	mg/Kg	✱	11/07/23 00:05	1	AAT
Ethylene Dibromide	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/07/23 00:05	1	AAT
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	✱	11/07/23 00:05	1	AAT
Methyl acetate	0.0045	U J	0.0053	0.0045	mg/Kg	✱	11/07/23 00:05	1	AAT
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	✱	11/07/23 00:05	1	AAT
Methylcyclohexane	0.00053	U J	0.0011	0.00053	mg/Kg	✱	11/07/23 00:05	1	AAT
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	✱	11/07/23 00:05	1	AAT
m-Xylene & p-Xylene	0.0024		0.0011	0.00018	mg/Kg	✱	11/07/23 00:05	1	AAT
o-Xylene	0.0016		0.0011	0.00020	mg/Kg	✱	11/07/23 00:05	1	AAT
Styrene	0.00090	J	0.0011	0.00029	mg/Kg	✱	11/07/23 00:05	1	AAT
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/07/23 00:05	1	AAT
Toluene	0.0022		0.0011	0.00025	mg/Kg	✱	11/07/23 00:05	1	AAT
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	✱	11/07/23 00:05	1	AAT
trans-1,3-Dichloropropene	0.00028	U	0.0011	0.00028	mg/Kg	✱	11/07/23 00:05	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: DUP-20231025

Lab Sample ID: 460-291249-5

Date Collected: 10/25/23 00:00

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	11/07/23 00:05	1	AAT
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	11/07/23 00:05	1	AAT
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	11/07/23 00:05	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indene	0.011	J N	mg/Kg	☼	13.34	95-13-6	11/07/23 00:05	1	AAT
Naphthalene	0.047	J N	mg/Kg	☼	14.52	91-20-3	11/07/23 00:05	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	107		72 - 138	11/07/23 00:05	1	AAT
4-Bromofluorobenzene	90		63 - 139	11/07/23 00:05	1	AAT
Dibromofluoromethane (Surr)	112		54 - 150	11/07/23 00:05	1	AAT
Toluene-d8 (Surr)	98		71 - 126	11/07/23 00:05	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.014	U	0.42	0.014	mg/Kg	☼	10/29/23 18:23	1	YAH
1,2,4,5-Tetrachlorobenzene	0.013	U	0.42	0.013	mg/Kg	☼	10/29/23 18:23	1	YAH
2,2'-oxybis[1-chloropropane]	0.025	U	0.42	0.025	mg/Kg	☼	10/29/23 18:23	1	YAH
2,3,4,6-Tetrachlorophenol	0.028	U	0.42	0.028	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4,5-Trichlorophenol	0.042	U	0.42	0.042	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4,6-Trichlorophenol	0.053	U	0.17	0.053	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4-Dichlorophenol	0.027	U	0.17	0.027	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4-Dimethylphenol	0.050	U	0.42	0.050	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4-Dinitrophenol	0.20	U	0.33	0.20	mg/Kg	☼	10/29/23 18:23	1	YAH
2,4-Dinitrotoluene	0.045	U	0.084	0.045	mg/Kg	☼	10/29/23 18:23	1	YAH
2,6-Dinitrotoluene	0.030	U	0.084	0.030	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Chloronaphthalene	0.019	U	0.42	0.019	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Chlorophenol	0.015	U	0.42	0.015	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Methylnaphthalene	0.024	J	0.42	0.012	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Methylphenol	0.016	U	0.42	0.016	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Nitroaniline	0.032	U	0.42	0.032	mg/Kg	☼	10/29/23 18:23	1	YAH
2-Nitrophenol	0.042	U	0.42	0.042	mg/Kg	☼	10/29/23 18:23	1	YAH
3,3'-Dichlorobenzidine	0.063	U	0.17	0.063	mg/Kg	☼	10/29/23 18:23	1	YAH
3-Nitroaniline	0.099	U	0.42	0.099	mg/Kg	☼	10/29/23 18:23	1	YAH
4,6-Dinitro-2-methylphenol	0.17	U	0.33	0.17	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Bromophenyl phenyl ether	0.017	U	0.42	0.017	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Chloro-3-methylphenol	0.023	U	0.42	0.023	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Chloroaniline	0.074	U	0.42	0.074	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Chlorophenyl phenyl ether	0.015	U	0.42	0.015	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Methylphenol	0.026	U	0.42	0.026	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Nitroaniline	0.048	U	0.42	0.048	mg/Kg	☼	10/29/23 18:23	1	YAH
4-Nitrophenol	0.068	U	0.84	0.068	mg/Kg	☼	10/29/23 18:23	1	YAH
Acenaphthene	0.012	U	0.42	0.012	mg/Kg	☼	10/29/23 18:23	1	YAH
Acenaphthylene	0.012	U	0.42	0.012	mg/Kg	☼	10/29/23 18:23	1	YAH
Acetophenone	0.020	U	0.42	0.020	mg/Kg	☼	10/29/23 18:23	1	YAH
Anthracene	0.013	U	0.42	0.013	mg/Kg	☼	10/29/23 18:23	1	YAH
Atrazine	0.025	U	0.17	0.025	mg/Kg	☼	10/29/23 18:23	1	YAH
Benzaldehyde	0.069	U	0.42	0.069	mg/Kg	☼	10/29/23 18:23	1	YAH
Benzo[a]anthracene	0.031	U	0.042	0.031	mg/Kg	☼	10/29/23 18:23	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: DUP-20231025

Lab Sample ID: 460-291249-5

Date Collected: 10/25/23 00:00

Matrix: Solid

Date Received: 10/26/23 19:00

Percent Solids: 79.3

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[a]pyrene	0.011	U	0.042	0.011	mg/Kg	✱	10/29/23 18:23	1	YAH
Benzo[b]fluoranthene	0.011	U	0.042	0.011	mg/Kg	✱	10/29/23 18:23	1	YAH
Benzo[g,h,i]perylene	0.012	U	0.42	0.012	mg/Kg	✱	10/29/23 18:23	1	YAH
Benzo[k]fluoranthene	0.0082	U	0.042	0.0082	mg/Kg	✱	10/29/23 18:23	1	YAH
Bis(2-chloroethoxy)methane	0.032	U	0.42	0.032	mg/Kg	✱	10/29/23 18:23	1	YAH
Bis(2-chloroethyl)ether	0.015	U	0.042	0.015	mg/Kg	✱	10/29/23 18:23	1	YAH
Bis(2-ethylhexyl) phthalate	0.022	U	0.42	0.022	mg/Kg	✱	10/29/23 18:23	1	YAH
Butyl benzyl phthalate	0.020	U	0.42	0.020	mg/Kg	✱	10/29/23 18:23	1	YAH
Caprolactam	0.065	U	0.42	0.065	mg/Kg	✱	10/29/23 18:23	1	YAH
Carbazole	0.016	U	0.42	0.016	mg/Kg	✱	10/29/23 18:23	1	YAH
Chrysene	0.018	U	0.42	0.018	mg/Kg	✱	10/29/23 18:23	1	YAH
Dibenz(a,h)anthracene	0.018	U	0.042	0.018	mg/Kg	✱	10/29/23 18:23	1	YAH
Dibenzofuran	0.014	U	0.42	0.014	mg/Kg	✱	10/29/23 18:23	1	YAH
Diethyl phthalate	0.013	U	0.42	0.013	mg/Kg	✱	10/29/23 18:23	1	YAH
Dimethyl phthalate	0.095	U	0.42	0.095	mg/Kg	✱	10/29/23 18:23	1	YAH
Di-n-butyl phthalate	0.016	U	0.42	0.016	mg/Kg	✱	10/29/23 18:23	1	YAH
Di-n-octyl phthalate	0.022	U	0.42	0.022	mg/Kg	✱	10/29/23 18:23	1	YAH
Fluoranthene	0.015	U	0.42	0.015	mg/Kg	✱	10/29/23 18:23	1	YAH
Fluorene	0.012	U	0.42	0.012	mg/Kg	✱	10/29/23 18:23	1	YAH
Hexachlorobenzene	0.020	U	0.042	0.020	mg/Kg	✱	10/29/23 18:23	1	YAH
Hexachlorobutadiene	0.0089	U	0.084	0.0089	mg/Kg	✱	10/29/23 18:23	1	YAH
Hexachlorocyclopentadiene	R 0.037	U *	0.42	0.037	mg/Kg	✱	10/29/23 18:23	1	YAH
Hexachloroethane	0.014	U	0.042	0.014	mg/Kg	✱	10/29/23 18:23	1	YAH
Indeno[1,2,3-cd]pyrene	0.016	U	0.042	0.016	mg/Kg	✱	10/29/23 18:23	1	YAH
Isophorone	0.12	U	0.17	0.12	mg/Kg	✱	10/29/23 18:23	1	YAH
Naphthalene	0.14	J	0.42	0.0072	mg/Kg	✱	10/29/23 18:23	1	YAH
Nitrobenzene	0.023	U	0.042	0.023	mg/Kg	✱	10/29/23 18:23	1	YAH
N-Nitrosodi-n-propylamine	0.030	U	0.042	0.030	mg/Kg	✱	10/29/23 18:23	1	YAH
N-Nitrosodiphenylamine	0.034	U	0.42	0.034	mg/Kg	✱	10/29/23 18:23	1	YAH
Pentachlorophenol	0.085	U	0.33	0.085	mg/Kg	✱	10/29/23 18:23	1	YAH
Phenanthrene	0.017	U	0.42	0.017	mg/Kg	✱	10/29/23 18:23	1	YAH
Phenol	0.015	U	0.42	0.015	mg/Kg	✱	10/29/23 18:23	1	YAH
Pyrene	0.010	U	0.42	0.010	mg/Kg	✱	10/29/23 18:23	1	YAH

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Aldol condensation product	R 0.45	A J	mg/Kg	✱	2.38	N/A	10/29/23 18:23	1	YAH

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	66		24 - 137	10/29/23 18:23	1	YAH
2-Fluorobiphenyl	73		48 - 120	10/29/23 18:23	1	YAH
2-Fluorophenol (Surr)	78		31 - 120	10/29/23 18:23	1	YAH
Nitrobenzene-d5 (Surr)	85		38 - 120	10/29/23 18:23	1	YAH
Phenol-d5 (Surr)	84		39 - 120	10/29/23 18:23	1	YAH
Terphenyl-d14 (Surr)	81		25 - 126	10/29/23 18:23	1	YAH

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291249-6

Date Collected: 10/25/23 00:00

Matrix: Water

Date Received: 10/26/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		10/31/23 03:43	1	KLB
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		10/31/23 03:43	1	KLB
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		10/31/23 03:43	1	KLB
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		10/31/23 03:43	1	KLB
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L		10/31/23 03:43	1	KLB
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		10/31/23 03:43	1	KLB
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L		10/31/23 03:43	1	KLB
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		10/31/23 03:43	1	KLB
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		10/31/23 03:43	1	KLB
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		10/31/23 03:43	1	KLB
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		10/31/23 03:43	1	KLB
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		10/31/23 03:43	1	KLB
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		10/31/23 03:43	1	KLB
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		10/31/23 03:43	1	KLB
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		10/31/23 03:43	1	KLB
2-Hexanone	1.1	U	5.0	1.1	ug/L		10/31/23 03:43	1	KLB
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		10/31/23 03:43	1	KLB
Acetone	4.4	U	5.0	4.4	ug/L		10/31/23 03:43	1	KLB
Benzene	0.20	U	1.0	0.20	ug/L		10/31/23 03:43	1	KLB
Bromoform	0.54	U	1.0	0.54	ug/L		10/31/23 03:43	1	KLB
Bromomethane	0.55	U J	1.0	0.55	ug/L		10/31/23 03:43	1	KLB
Carbon disulfide	0.82	U*+ UJ	1.0	0.82	ug/L		10/31/23 03:43	1	KLB
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		10/31/23 03:43	1	KLB
Chlorobenzene	0.38	U	1.0	0.38	ug/L		10/31/23 03:43	1	KLB
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		10/31/23 03:43	1	KLB
Chlorodibromomethane	0.31	J	1.0	0.28	ug/L		10/31/23 03:43	1	KLB
Chloroethane	0.32	U	1.0	0.32	ug/L		10/31/23 03:43	1	KLB
Chloroform	0.33	U	1.0	0.33	ug/L		10/31/23 03:43	1	KLB
Chloromethane	0.43	J	1.0	0.40	ug/L		10/31/23 03:43	1	KLB
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		10/31/23 03:43	1	KLB
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/31/23 03:43	1	KLB
Cyclohexane	0.32	U J	1.0	0.32	ug/L		10/31/23 03:43	1	KLB
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		10/31/23 03:43	1	KLB
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		10/31/23 03:43	1	KLB
Ethylbenzene	0.30	U	1.0	0.30	ug/L		10/31/23 03:43	1	KLB
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		10/31/23 03:43	1	KLB
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		10/31/23 03:43	1	KLB
Methyl acetate	0.79	U*+ UJ	5.0	0.79	ug/L		10/31/23 03:43	1	KLB
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		10/31/23 03:43	1	KLB
Methylcyclohexane	0.71	U J	1.0	0.71	ug/L		10/31/23 03:43	1	KLB
Methylene Chloride	0.32	U	1.0	0.32	ug/L		10/31/23 03:43	1	KLB
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		10/31/23 03:43	1	KLB
o-Xylene	0.36	U	1.0	0.36	ug/L		10/31/23 03:43	1	KLB
Styrene	0.42	U	1.0	0.42	ug/L		10/31/23 03:43	1	KLB
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		10/31/23 03:43	1	KLB
Toluene	0.38	U	1.0	0.38	ug/L		10/31/23 03:43	1	KLB
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		10/31/23 03:43	1	KLB
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/31/23 03:43	1	KLB
Trichloroethene	0.31	U	1.0	0.31	ug/L		10/31/23 03:43	1	KLB

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291249-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291249-6

Date Collected: 10/25/23 00:00

Matrix: Water

Date Received: 10/26/23 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		10/31/23 03:43	1	KLB
Vinyl chloride	0.17	U	1.0	0.17	ug/L		10/31/23 03:43	1	KLB
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	96		70 - 128				10/31/23 03:43	1	KLB
4-Bromofluorobenzene	105		76 - 120				10/31/23 03:43	1	KLB
Dibromofluoromethane (Surr)	92		77 - 132				10/31/23 03:43	1	KLB
Toluene-d8 (Surr)	99		80 - 120				10/31/23 03:43	1	KLB

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs) and Semivolatile Organic Compounds (SVOCs) Analyses

SDG # 460-291332-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52270R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-291332-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SB-109-A(1.0-2.0)-20231026	460-291332-1	Soil	10/26/2023		X	X			
SB-101-A(10.0-11.0)-20231026	460-291332-2	Soil	10/26/2023		X	X			
SB-101-A(20.0-21.0)-20231026	460-291332-3	Soil	10/26/2023		X	X			
SB-104-A(11.0-12.0)-20231026	460-291332-4	Soil	10/26/2023		X	X			
SB-101-A(26.5-27.5)-20231026	460-291332-5	Soil	10/26/2023		X	X			
SB-104-A(17.0-17.5)-20231026	460-291332-6	Soil	10/26/2023		X	X			
DUP_20231026-20231026	460-291332-7	Soil	10/26/2023	SB-101-A(26.5-27.5)-20231026	X	X			

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (B). No other qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-101-A(10.0-11.0)-20231026 SB-104-A(11.0-12.0)-20231026	ICV %D	Dichlorodifluoromethane	-21.2%
		Carbon disulfide	-22.6%
	CCV %D	Dichlorodifluoromethane	-20.4%
SB-109-A(1.0-2.0)-20231026 SB-101-A(20.0-21.0)-20231026 SB-101-A(26.5-27.5)-20231026 SB-104-A(17.0-17.5)-20231026 DUP_20231026-20231026	ICV %D	Acetone	-21.9%
		Carbon disulfide	-22.6%
	CCV %D	1,4-Dioxane	+23.5%
DUP_20231026-20231026	CCV %D	1,1,2-Trichloroethane	-22.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-101-A(26.5-27.5)	1,1,2-Trichloroethane	<LL but>10%	<LL but>10%
	1,1-Dichloroethane	<LL but>10%	AC
	1,2,3-Trichlorobenzene	<LL but>10%	<LL but>10%
	1,2,4-Trichlorobenzene	<LL but>10%	<LL but>10%
	1,2-Dibromo-3-Chloropropane	<LL but>10%	<LL but>10%
	1,2-Dichlorobenzene	<LL but>10%	<LL but>10%
	1,2-Dichloroethane	<LL but>10%	AC
	1,2-Dichloropropane	<LL but>10%	AC
	1,3-Dichlorobenzene	<LL but>10%	<LL but>10%
	1,4-Dichlorobenzene	<LL but>10%	<LL but>10%
	1,4-Dioxane	AC	<LL but>10%
	Acetone	<LL but>10%	AC
	Chlorobenzene	<LL but>10%	<LL but>10%
	Chloroform	<LL but>10%	AC
	cis-1,3-Dichloropropene	<LL but>10%	AC
	Ethylbenzene	<LL but>10%	<LL but>10%
	Ethylene Dibromide	<LL but>10%	<LL but>10%
	Isopropylbenzene	<LL but>10%	<LL but>10%
	Methylcyclohexane	<LL but>10%	<LL but>10%

Sample Locations	Compound	MS Recovery	MSD Recovery
	m-Xylene & p-Xylene	<LL but>10%	<LL but>10%
	o-Xylene	<LL but>10%	<LL but>10%
	Styrene	<LL but>10%	<LL but>10%
	Tetrachloroethene	<LL but>10%	<LL but>10%
	Toluene	<LL but>10%	<LL but>10%
	trans-1,3-Dichloropropene	<LL but>10%	<LL but>10%
	Trichloroethene	<LL but>10%	AC

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-109-A(1.0-2.0)-20231026 SB-101-A(20.0-21.0)-20231026 SB-101-A(26.5-27.5)-20231026 SB-104-A(17.0-17.5)-20231026 DUP_20231026	1,1,2-Trichloroethane	<LL but >10%	<LL but >10%

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-101-A(26.5-27.5)-20231026/ DUP_20231026-20231026	2-Butanone (MEK)	0.0077	0.0073	AC
	Acetone	0.22	0.39	55.7 %
	Benzene	0.0003 J	0.00068 J	AC
	Carbon Disulfide	0.0037	0.0058	AC

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Ethylbenzene	0.0041	0.0025	AC
	Isopropylbenzene	0.0012	0.001 J	AC
	m&p-Xylenes	0.0013	0.00087 J	AC
	o-Xylene	0.0017	0.0013	AC
	Styrene (Monomer)	0.00099	0.0009 J	AC
	Toluene	0.00025 J	0.00042 J	AC

Notes:

AC Acceptable

Acetone associated with sample locations SB-101-A(26.5-27.5)-20231026 and DUP_20231026-20231026 exhibited a field duplicate RPD greater than the control limit. The associated sample results from these sample locations for the listed analyte were qualified as estimated.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks	X				X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-109-A(1.0-2.0)-20231026 SB-101-A(10.0-11.0)-20231026 SB-101-A(20.0-21.0)-20231026 SB-104-A(11.0-12.0)-20231026	ICV %D	Benzaldehyde	-58.8%
SB-101-A(26.5-27.5)-20231026 SB-104-A(17.0-17.5)-20231026 DUP_20231026-20231026	CCV %D	Benzaldehyde	-42.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF >0.05 or RRF >0.01 ¹	Detect	J
		Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SB-101-A(26.5-27.5)	1,1'-Biphenyl	>UL	>UL
	2,2'-oxybis[1-chloropropane]	>UL	>UL
	2,4-Dinitrophenol	<10%	<LL but >10%
	2,4-Dinitrotoluene	<LL but >10%	>UL
	2-Nitroaniline	>UL	>UL
	4,6-Dinitro-2-methylphenol	<10%	<LL but >10%
	4-Nitroaniline	>UL	>UL
	4-Nitrophenol	>UL	>UL
	Acenaphthylene	>UL	AC
	Atrazine	>UL	>UL
	Benzaldehyde	>UL	>UL
	Benzo[b]fluoranthene	>UL	AC
	Benzo[k]fluoranthene	>UL	>UL
	Bis(2-chloroethoxy)methane	>UL	AC
	Bis(2-ethylhexyl) phthalate	>UL	>UL
	Caprolactam	>UL	>UL
	Dibenzofuran	>UL	AC
	Di-n-butyl phthalate	>UL	>UL
	Di-n-octyl phthalate	>UL	>UL

Data Usability Summary Report

Sample Locations	Compound	MS Recovery	MSD Recovery
	Hexachlorocyclopentadiene	<10%	<10%
	Indeno[1,2,3-cd]pyrene	>UL	AC
	N-Nitrosodiphenylamine	>UL	>UL
	N-Nitrosodi-n-propylamine	AC	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
SB-101-A(26.5-27.5)	2,4-Dinitrophenol 2,4-Dinitrotoluene 4,6-Dinitro-2-methylphenol Dibenzofuran

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SB-109-A(1.0-2.0)-20231026	Hexachlorocyclopentadiene	<10%	<10%
SB-101-A(10.0-11.0)-20231026			
SB-101-A(20.0-21.0)-20231026			
SB-104-A(11.0-12.0)-20231026			
SB-101-A(26.5-27.5)-20231026	Atrazine	>UL	>UL
SB-104-A(17.0-17.5)-20231026			
DUP_20231026-20231026			

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-101-A(26.5-27.5)-20231026/ DUP_20231026-20231026	1,1-Biphenyl	1.9	2.8	38.2 %
	2-Methylnaphthalene	0.13 J	0.51 U	AC
	Acenaphthene	20	20	0.0 %
	Acenaphthylene	11	11	0.0 %
	Anthracene	23	19	19.0 %
	Benz(a)anthracene	20	17	16.2 %
	Benzo(a)pyrene	16	13	20.6 %
	Benzo(b)fluoranthene	12	10	18.1 %
	Benzo(g,h,i)perylene	2.6	5.4	70.0 %
	Benzo(k)fluoranthene	4.5	4.5	0.0 %
	Carbazole	0.22 J	0.23 J	AC
	Chrysene	17	15	12.5 %
	Dibenz(a,h)anthracene	0.66	1.5	77.7 %
	Dibenzofuran	7.6	9.3	20.1 %
	Di-n-butyl phthalate	0.35 U	0.056 J	AC
	Fluoranthene	36	30	18.1 %
	Fluorene	25	22	12.7 %
	Indeno(1,2,3-cd)pyrene	2.7	5.9	74.4 %
	Naphthalene	0.43	0.47 J	AC
	Phenanthrene	93	82	12.5 %

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Pyrene	52	44	16.6 %

Notes:

AC Acceptable

Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene associated with sample locations SB-101-A(26.5-27.5)-20231026 and DUP_20231026-20231026 exhibited a field duplicate RPD greater than the control limit. The associated sample results from these sample locations for the listed analyte were qualified as estimated.

9. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as "Aldol condensation product" are laboratory artifacts and were qualified as rejected (R).

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-101-A(10.0-11.0)	1,1'-Biphenyl	--	27 D	27 D
	2-Methylnaphthalene	--	28 D	28 D
	Acenaphthylene	--	17 D	17 D
	Anthracene	--	82 D	82 D
	Benzo[a]anthracene	--	46 D	46 D
	Benzo[a]pyrene	--	39 D	39 D
	Benzo[b]fluoranthene	--	28 D	28 D
	Benzo[k]fluoranthene	--	11 D	11 D
	Chrysene	--	43 D	43 D
	Dibenzofuran	--	15 D	15 D
	Fluoranthene	--	90 D	90 D
	Fluorene	--	89 D	89 D
	Acenaphthene	--	160 D	160 D
	Naphthalene	--	180 D	180 D

Data Usability Summary Report

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
SB-101-A(20.0-21.0)	Phenanthrene	--	340 D	340 D
	Pyrene	--	150 D	150 D
	Naphthalene	--	14 D	14 D
SB-101-A(20.0-21.0)	Phenanthrene	--	15 D	15 D
	Pyrene	--	8.4 D	8.4 D
	2-Methylnaphthalene	--	15 D	15 D
SB-104-A(11.0-12.0)	Acenaphthene	--	38 D	38 D
	Anthracene	--	18 D	18 D
	Fluoranthene	--	19 D	19 D
	Fluorene	--	18 D	18 D
	Naphthalene	--	68 D	68 D
	Phenanthrene	--	66 D	66 D
	Pyrene	--	31 D	31 D
	Acenaphthene	--	20 D	20 D
SB-101-A(26.5-27.5)	Acenaphthylene	--	11 D	11 D
	Anthracene	--	23 D	23 D
	Benzo[a]anthracene	--	20 D	20 D
	Benzo[a]pyrene	--	16 D	16 D
	Benzo[b]fluoranthene	--	12 D	12 D
	Chrysene	--	17 D	17 D
	Fluoranthene	--	36 D	36 D
	Fluorene	--	25 D	25 D
	Phenanthrene	--	93 D	93 D
	Pyrene	--	52 D	52 D
	Acenaphthene	--	11 D	11 D
SB-104-A(17.0-17.5)	Fluoranthene	--	6.1 D	6.1 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
	Naphthalene	--	6.8 D	6.8 D
	Phenanthrene	--	20 D	20 D
	Pyrene	--	9.7 D	9.7 D
DUP_20231026	Acenaphthene	--	20 D	20 D
	Anthracene	--	19 D	19 D
	Benzo[a]anthracene	--	17 D	17 D
	Benzo[a]pyrene	--	13 D	13 D
	Benzo[b]fluoranthene	--	10 D	10 D
	Chrysene	--	15 D	15 D
	Fluoranthene	--	30 D	30 D
	Fluorene	--	22 D	22 D
	Phenanthrene	--	82 D	82 D
	Pyrene	--	44 D	44 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X	X			
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-291332-1	10/26/2023	SW846/USEPA	SB-109-A(1.0-2.0)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/26/2023	SW846/USEPA	SB-101-A(10.0-11.0)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/26/2023	SW846/USEPA	SB-101-A(20.0-21.0)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/26/2023	SW846/USEPA	SB-104-A(11.0-12.0)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/26/2023	SW846/USEPA	SB-101-A(26.5-27.5)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D, MS/MSD %R, Field Dup RPD SVOC – ICV/CCV %D, LCS/LCSD %R, MS/MSD %R/RPD, Field Dup RPD
	10/26/2023	SW846/USEPA	SB-104-A(17.0-17.5)-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R
	10/26/2023	SW846/USEPA	DUP_20231026-20231026	Soil	no	no	--	--	--	VOC – ICV/CCV %D, MS/MSD %R/RPD, Field Dup RPD

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix		Compliance ¹				Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										SVOC – ICV/CCV %D, LCS/LCSD %R, MS/MSD %R/RPD, Field Dup RPD

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: January 8, 2024

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

695214

Environment Testing
America

Address

TAL-8210

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: Michael Jones		Site Contact: John P. Jones		Date:	
Company Name: Africa's		Tel/Email: Michael Jones (904) 231-1000		Lab Contact:		Carrier:	
Address: 201 W Fayette St		City/State/Zip: Syracuse NY 13202		Analysis Turnaround Time		COC No: 1 of 1 COCs	
Phone: 315-247-3244		Fax:		☐ CALENDAR DAYS ☐ WORKING DAYS		Sampler:	
Project Name: Can Edison turn off OS/MSW works		Site: Can Edison		TAT if different from Below		For Lab Use Only	
PO #		QVI-1		2 weeks		Walk-in Client:	
				1 week		Lab Sampling:	
				2 days		Job / SDG No: 791332	
				1 day			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
SB-109-A (100-20)	10/26/23	1027	G	S&1	6		
SB-101-A (100-110)		1038					
SB-101-A (200-210)		1133					
SB-101-A (110-120)		1236					
SB-101-A (265-275)		1146					
SB-101-A (170-175)		1306					
DUP-2023 1026	10/26/23						
DUP-2023 1026	10/26/23						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other							
Possible Hazard Identification							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Unknown							
Special Instructions/QC Requirements & Comments							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temp. (°C): Obs'd		Therm ID No.	
Relinquished by: John P. Jones		Company: Accuris		Received by: [Signature]		Company: ETLA	
Relinquished by:		Company:		Date/Time: 10/27/23 1117		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by:		Date/Time:	



460-291332 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained more than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-109-A(1.0-2.0)

Lab Sample ID: 460-291332-1

Date Collected: 10/26/23 10:27

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00090	0.00021	mg/Kg	✱	10/29/23 20:02	1	MZS
1,1,2,2-Tetrachloroethane	0.00019	U	0.00090	0.00019	mg/Kg	✱	10/29/23 20:02	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00090	0.00027	mg/Kg	✱	10/29/23 20:02	1	MZS
1,1,2-Trichloroethane	0.00016	U- UJ	0.00090	0.00016	mg/Kg	✱	10/29/23 20:02	1	MZS
1,1-Dichloroethane	0.00019	U	0.00090	0.00019	mg/Kg	✱	10/29/23 20:02	1	MZS
1,1-Dichloroethene	0.00020	U	0.00090	0.00020	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2,3-Trichlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2,4-Trichlorobenzene	0.00032	U	0.00090	0.00032	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00090	0.00042	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2-Dichloroethane	0.00027	U	0.00090	0.00027	mg/Kg	✱	10/29/23 20:02	1	MZS
1,2-Dichloropropane	0.00038	U	0.00090	0.00038	mg/Kg	✱	10/29/23 20:02	1	MZS
1,3-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	✱	10/29/23 20:02	1	MZS
1,4-Dichlorobenzene	0.00020	U	0.00090	0.00020	mg/Kg	✱	10/29/23 20:02	1	MZS
1,4-Dioxane	0.0083	U J	0.090	0.0083	mg/Kg	✱	10/29/23 20:02	1	MZS
2-Butanone (MEK)	0.00033	U	0.0045	0.00033	mg/Kg	✱	10/29/23 20:02	1	MZS
2-Hexanone	0.0015	U	0.0045	0.0015	mg/Kg	✱	10/29/23 20:02	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	✱	10/29/23 20:02	1	MZS
Acetone	0.0052	U	0.0054	0.0052	mg/Kg	✱	10/29/23 20:02	1	MZS
Benzene	0.00023	U	0.00090	0.00023	mg/Kg	✱	10/29/23 20:02	1	MZS
Bromoform	0.00038	U	0.00090	0.00038	mg/Kg	✱	10/29/23 20:02	1	MZS
Bromomethane	0.00090	U	0.0018	0.00090	mg/Kg	✱	10/29/23 20:02	1	MZS
Carbon disulfide	0.00024	U	0.00090	0.00024	mg/Kg	✱	10/29/23 20:02	1	MZS
Carbon tetrachloride	0.00035	U	0.00090	0.00035	mg/Kg	✱	10/29/23 20:02	1	MZS
Chlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	✱	10/29/23 20:02	1	MZS
Chlorobromomethane	0.00025	U	0.00090	0.00025	mg/Kg	✱	10/29/23 20:02	1	MZS
Chlorodibromomethane	0.00018	U	0.00090	0.00018	mg/Kg	✱	10/29/23 20:02	1	MZS
Chloroethane	0.00047	U	0.00090	0.00047	mg/Kg	✱	10/29/23 20:02	1	MZS
Chloroform	0.00088	U	0.00090	0.00088	mg/Kg	✱	10/29/23 20:02	1	MZS
Chloromethane	0.00039	U	0.00090	0.00039	mg/Kg	✱	10/29/23 20:02	1	MZS
cis-1,2-Dichloroethene	0.00032	U	0.00090	0.00032	mg/Kg	✱	10/29/23 20:02	1	MZS
cis-1,3-Dichloropropene	0.00025	U	0.00090	0.00025	mg/Kg	✱	10/29/23 20:02	1	MZS
Cyclohexane	0.00020	U	0.00090	0.00020	mg/Kg	✱	10/29/23 20:02	1	MZS
Dichlorobromomethane	0.00023	U	0.00090	0.00023	mg/Kg	✱	10/29/23 20:02	1	MZS
Dichlorodifluoromethane	0.00031	U	0.00090	0.00031	mg/Kg	✱	10/29/23 20:02	1	MZS
Ethylbenzene	0.00027	J	0.00090	0.00018	mg/Kg	✱	10/29/23 20:02	1	MZS
Ethylene Dibromide	0.00016	U	0.00090	0.00016	mg/Kg	✱	10/29/23 20:02	1	MZS
Isopropylbenzene	0.00026	U	0.00090	0.00026	mg/Kg	✱	10/29/23 20:02	1	MZS
Methyl acetate	0.0039	U	0.0045	0.0039	mg/Kg	✱	10/29/23 20:02	1	MZS
Methyl tert-butyl ether	0.00046	U	0.00090	0.00046	mg/Kg	✱	10/29/23 20:02	1	MZS
Methylcyclohexane	0.00045	U	0.00090	0.00045	mg/Kg	✱	10/29/23 20:02	1	MZS
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	✱	10/29/23 20:02	1	MZS
m-Xylene & p-Xylene	0.00016	U	0.00090	0.00016	mg/Kg	✱	10/29/23 20:02	1	MZS
o-Xylene	0.00018	U	0.00090	0.00018	mg/Kg	✱	10/29/23 20:02	1	MZS
Styrene	0.00025	U	0.00090	0.00025	mg/Kg	✱	10/29/23 20:02	1	MZS
Tetrachloroethene	0.00028	U	0.00090	0.00028	mg/Kg	✱	10/29/23 20:02	1	MZS
Toluene	0.00021	U	0.00090	0.00021	mg/Kg	✱	10/29/23 20:02	1	MZS
trans-1,2-Dichloroethene	0.00022	U	0.00090	0.00022	mg/Kg	✱	10/29/23 20:02	1	MZS
trans-1,3-Dichloropropene	0.00024	U	0.00090	0.00024	mg/Kg	✱	10/29/23 20:02	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-109-A(1.0-2.0)

Lab Sample ID: 460-291332-1

Date Collected: 10/26/23 10:27

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00029	U	0.00090	0.00029	mg/Kg	☼	10/29/23 20:02	1	MZS
Trichlorofluoromethane	0.00037	U	0.00090	0.00037	mg/Kg	☼	10/29/23 20:02	1	MZS
Vinyl chloride	0.00049	U	0.00090	0.00049	mg/Kg	☼	10/29/23 20:02	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	10/29/23 20:02	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	96		72 - 138	10/29/23 20:02	1	MZS
4-Bromofluorobenzene	100		63 - 139	10/29/23 20:02	1	MZS
Dibromofluoromethane (Surr)	102		54 - 150	10/29/23 20:02	1	MZS
Toluene-d8 (Surr)	103		71 - 126	10/29/23 20:02	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	J	0.34	0.012	mg/Kg	☼	10/30/23 13:17	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U	0.34	0.021	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	10/30/23 13:17	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Methylnaphthalene	0.023	J	0.34	0.0097	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	10/30/23 13:17	1	MDJ
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	10/30/23 13:17	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	10/30/23 13:17	1	MDJ
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	10/30/23 13:17	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	10/30/23 13:17	1	MDJ
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	10/30/23 13:17	1	MDJ
Acenaphthene	0.032	J	0.34	0.0098	mg/Kg	☼	10/30/23 13:17	1	MDJ
Acenaphthylene	0.097	J	0.34	0.0099	mg/Kg	☼	10/30/23 13:17	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	10/30/23 13:17	1	MDJ
Anthracene	0.069	J	0.34	0.011	mg/Kg	☼	10/30/23 13:17	1	MDJ
Atrazine	0.020	U ☼	0.14	0.020	mg/Kg	☼	10/30/23 13:17	1	MDJ
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	10/30/23 13:17	1	MDJ
Benzo[a]anthracene	0.13		0.034	0.026	mg/Kg	☼	10/30/23 13:17	1	MDJ
Benzo[a]pyrene	0.18		0.034	0.0092	mg/Kg	☼	10/30/23 13:17	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-109-A(1.0-2.0)

Lab Sample ID: 460-291332-1

Date Collected: 10/26/23 10:27

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.22		0.034	0.0089	mg/Kg	✱	10/30/23 13:17	1	MDJ
Benzo[g,h,i]perylene	0.063	J	0.34	0.010	mg/Kg	✱	10/30/23 13:17	1	MDJ
Benzo[k]fluoranthene	0.10		0.034	0.0068	mg/Kg	✱	10/30/23 13:17	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	✱	10/30/23 13:17	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	✱	10/30/23 13:17	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	✱	10/30/23 13:17	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	✱	10/30/23 13:17	1	MDJ
Caprolactam	0.054	U	0.34	0.054	mg/Kg	✱	10/30/23 13:17	1	MDJ
Carbazole	0.013	J	0.34	0.013	mg/Kg	✱	10/30/23 13:17	1	MDJ
Chrysene	0.18	J	0.34	0.015	mg/Kg	✱	10/30/23 13:17	1	MDJ
Dibenz(a,h)anthracene	0.016	J	0.034	0.015	mg/Kg	✱	10/30/23 13:17	1	MDJ
Dibenzofuran	0.012	U	0.34	0.012	mg/Kg	✱	10/30/23 13:17	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	✱	10/30/23 13:17	1	MDJ
Dimethyl phthalate	0.079	U	0.34	0.079	mg/Kg	✱	10/30/23 13:17	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	✱	10/30/23 13:17	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	✱	10/30/23 13:17	1	MDJ
Fluoranthene	0.23	J	0.34	0.012	mg/Kg	✱	10/30/23 13:17	1	MDJ
Fluorene	0.024	J	0.34	0.010	mg/Kg	✱	10/30/23 13:17	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	✱	10/30/23 13:17	1	MDJ
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	✱	10/30/23 13:17	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.34	0.030	mg/Kg	✱	10/30/23 13:17	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	✱	10/30/23 13:17	1	MDJ
Indeno[1,2,3-cd]pyrene	0.094		0.034	0.013	mg/Kg	✱	10/30/23 13:17	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	✱	10/30/23 13:17	1	MDJ
Naphthalene	0.16	J	0.34	0.0060	mg/Kg	✱	10/30/23 13:17	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	✱	10/30/23 13:17	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	✱	10/30/23 13:17	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	✱	10/30/23 13:17	1	MDJ
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	✱	10/30/23 13:17	1	MDJ
Phenanthrene	0.085	J	0.34	0.014	mg/Kg	✱	10/30/23 13:17	1	MDJ
Phenol	0.013	U	0.34	0.013	mg/Kg	✱	10/30/23 13:17	1	MDJ
Pyrene	0.20	J	0.34	0.0086	mg/Kg	✱	10/30/23 13:17	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/30/23 13:17	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	74		24 - 137	10/30/23 13:17	1	MDJ
2-Fluorobiphenyl	77		48 - 120	10/30/23 13:17	1	MDJ
2-Fluorophenol (Surr)	82		31 - 120	10/30/23 13:17	1	MDJ
Nitrobenzene-d5 (Surr)	84		38 - 120	10/30/23 13:17	1	MDJ
Phenol-d5 (Surr)	85		39 - 120	10/30/23 13:17	1	MDJ
Terphenyl-d14 (Surr)	80		25 - 126	10/30/23 13:17	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(10.0-11.0)

Lab Sample ID: 460-291332-2

Date Collected: 10/26/23 10:58

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.028	U	0.10	0.028	mg/Kg	✱	10/30/23 17:45	50	MZS
1,1,2,2-Tetrachloroethane	0.020	U	0.10	0.020	mg/Kg	✱	10/30/23 17:45	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.034	U	0.10	0.034	mg/Kg	✱	10/30/23 17:45	50	MZS
1,1,2-Trichloroethane	0.021	U	0.10	0.021	mg/Kg	✱	10/30/23 17:45	50	MZS
1,1-Dichloroethane	0.024	U	0.10	0.024	mg/Kg	✱	10/30/23 17:45	50	MZS
1,1-Dichloroethene	0.027	U	0.10	0.027	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2,3-Trichlorobenzene	0.035	U	0.10	0.035	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2,4-Trichlorobenzene	0.027	U	0.10	0.027	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2-Dibromo-3-Chloropropane	0.021	U	0.10	0.021	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2-Dichlorobenzene	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2-Dichloroethane	0.025	U	0.10	0.025	mg/Kg	✱	10/30/23 17:45	50	MZS
1,2-Dichloropropane	0.018	U	0.10	0.018	mg/Kg	✱	10/30/23 17:45	50	MZS
1,3-Dichlorobenzene	0.033	U	0.10	0.033	mg/Kg	✱	10/30/23 17:45	50	MZS
1,4-Dichlorobenzene	0.034	U	0.10	0.034	mg/Kg	✱	10/30/23 17:45	50	MZS
1,4-Dioxane	2.9	U	5.1	2.9	mg/Kg	✱	10/30/23 17:45	50	MZS
2-Butanone (MEK)	0.22	U	0.51	0.22	mg/Kg	✱	10/30/23 17:45	50	MZS
2-Hexanone	0.11	U	0.51	0.11	mg/Kg	✱	10/30/23 17:45	50	MZS
4-Methyl-2-pentanone (MIBK)	0.13	U	0.51	0.13	mg/Kg	✱	10/30/23 17:45	50	MZS
Acetone	0.45	U J	0.51	0.45	mg/Kg	✱	10/30/23 17:45	50	MZS
Benzene	1.4		0.10	0.020	mg/Kg	✱	10/30/23 17:45	50	MZS
Bromoform	0.018	U	0.10	0.018	mg/Kg	✱	10/30/23 17:45	50	MZS
Bromomethane	0.056	U	0.10	0.056	mg/Kg	✱	10/30/23 17:45	50	MZS
Carbon disulfide	0.14	J	0.10	0.068	mg/Kg	✱	10/30/23 17:45	50	MZS
Carbon tetrachloride	0.033	U	0.10	0.033	mg/Kg	✱	10/30/23 17:45	50	MZS
Chlorobenzene	0.024	U	0.10	0.024	mg/Kg	✱	10/30/23 17:45	50	MZS
Chlorobromomethane	0.030	U	0.10	0.030	mg/Kg	✱	10/30/23 17:45	50	MZS
Chlorodibromomethane	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS
Chloroethane	0.037	U	0.10	0.037	mg/Kg	✱	10/30/23 17:45	50	MZS
Chloroform	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS
Chloromethane	0.041	U	0.10	0.041	mg/Kg	✱	10/30/23 17:45	50	MZS
cis-1,2-Dichloroethene	0.026	U	0.10	0.026	mg/Kg	✱	10/30/23 17:45	50	MZS
cis-1,3-Dichloropropene	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS
Cyclohexane	0.026	U	0.10	0.026	mg/Kg	✱	10/30/23 17:45	50	MZS
Dichlorobromomethane	0.015	U	0.10	0.015	mg/Kg	✱	10/30/23 17:45	50	MZS
Dichlorodifluoromethane	0.031	U J	0.10	0.031	mg/Kg	✱	10/30/23 17:45	50	MZS
Ethylbenzene	12		0.10	0.030	mg/Kg	✱	10/30/23 17:45	50	MZS
Ethylene Dibromide	0.019	U	0.10	0.019	mg/Kg	✱	10/30/23 17:45	50	MZS
Isopropylbenzene	5.1		0.10	0.032	mg/Kg	✱	10/30/23 17:45	50	MZS
Methyl acetate	0.079	U	0.51	0.079	mg/Kg	✱	10/30/23 17:45	50	MZS
Methyl tert-butyl ether	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS
Methylcyclohexane	0.35		0.10	0.073	mg/Kg	✱	10/30/23 17:45	50	MZS
Methylene Chloride	0.021	U	0.10	0.021	mg/Kg	✱	10/30/23 17:45	50	MZS
m-Xylene & p-Xylene	2.6		0.10	0.028	mg/Kg	✱	10/30/23 17:45	50	MZS
o-Xylene	4.0		0.10	0.032	mg/Kg	✱	10/30/23 17:45	50	MZS
Styrene	0.13		0.10	0.017	mg/Kg	✱	10/30/23 17:45	50	MZS
Tetrachloroethene	0.036	U	0.10	0.036	mg/Kg	✱	10/30/23 17:45	50	MZS
Toluene	1.1		0.10	0.025	mg/Kg	✱	10/30/23 17:45	50	MZS
trans-1,2-Dichloroethene	0.018	U	0.10	0.018	mg/Kg	✱	10/30/23 17:45	50	MZS
trans-1,3-Dichloropropene	0.022	U	0.10	0.022	mg/Kg	✱	10/30/23 17:45	50	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(10.0-11.0)

Lab Sample ID: 460-291332-2

Date Collected: 10/26/23 10:58

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.022	U	0.10	0.022	mg/Kg	☼	10/30/23 17:45	50	MZS
Trichlorofluoromethane	0.032	U	0.10	0.032	mg/Kg	☼	10/30/23 17:45	50	MZS
Vinyl chloride	0.020	U	0.10	0.020	mg/Kg	☼	10/30/23 17:45	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	11	J N	mg/Kg	☼	11.64	95-63-6	10/30/23 17:45	50	MZS
Indane	38	J N	mg/Kg	☼	12.22	496-11-7	10/30/23 17:45	50	MZS
Benzene, 1,3-diethyl-	7.5	J N	mg/Kg	☼	12.25	141-93-5	10/30/23 17:45	50	MZS
Benzene, 2-ethyl-1,4-dimethyl-	7.0	J N	mg/Kg	☼	12.33	1758-88-9	10/30/23 17:45	50	MZS
Benzene, 2-ethyl-1,3-dimethyl-	8.0	J N	mg/Kg	☼	12.62	2870-04-4	10/30/23 17:45	50	MZS
1H-Indene, 2,3-dihydro-5-methyl-	11	J N	mg/Kg	☼	13.10	874-35-1	10/30/23 17:45	50	MZS
1H-Indene, 1-methyl-	10	J N	mg/Kg	☼	13.29	767-59-9	10/30/23 17:45	50	MZS
Naphthalene	64	J N	mg/Kg	☼	13.58	91-20-3	10/30/23 17:45	50	MZS
Naphthalene, 2-methyl-	5.7	J N	mg/Kg	☼	14.35	91-57-6	10/30/23 17:45	50	MZS
Naphthalene, 1-methyl-	15	J N	mg/Kg	☼	14.50	90-12-0	10/30/23 17:45	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	119		68 - 150	10/30/23 17:45	50	MZS
4-Bromofluorobenzene	110		70 - 141	10/30/23 17:45	50	MZS
Dibromofluoromethane (Surr)	108		68 - 142	10/30/23 17:45	50	MZS
Toluene-d8 (Surr)	108		73 - 147	10/30/23 17:45	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4-Dimethylphenol	0.045	U	0.38	0.045	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☼	10/30/23 13:35	1	MDJ
2,6-Dinitrotoluene	0.027	U	0.077	0.027	mg/Kg	☼	10/30/23 13:35	1	MDJ
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☼	10/30/23 13:35	1	MDJ
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☼	10/30/23 13:35	1	MDJ
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☼	10/30/23 13:35	1	MDJ
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☼	10/30/23 13:35	1	MDJ
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☼	10/30/23 13:35	1	MDJ
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	☼	10/30/23 13:35	1	MDJ
3-Nitroaniline	0.090	U	0.38	0.090	mg/Kg	☼	10/30/23 13:35	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Chloroaniline	0.068	U	0.38	0.068	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☼	10/30/23 13:35	1	MDJ
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☼	10/30/23 13:35	1	MDJ
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☼	10/30/23 13:35	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(10.0-11.0)

Lab Sample ID: 460-291332-2

Date Collected: 10/26/23 10:58

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.8

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Atrazine	0.022	U ✖	0.15	0.022	mg/Kg	✖	10/30/23 13:35	1	MDJ
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	✖	10/30/23 13:35	1	MDJ
Benzo[g,h,i]perylene	4.8		0.38	0.011	mg/Kg	✖	10/30/23 13:35	1	MDJ
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	✖	10/30/23 13:35	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	✖	10/30/23 13:35	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	✖	10/30/23 13:35	1	MDJ
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	✖	10/30/23 13:35	1	MDJ
Caprolactam	0.059	U	0.38	0.059	mg/Kg	✖	10/30/23 13:35	1	MDJ
Carbazole	4.3		0.38	0.014	mg/Kg	✖	10/30/23 13:35	1	MDJ
Dibenz(a,h)anthracene	1.5		0.038	0.016	mg/Kg	✖	10/30/23 13:35	1	MDJ
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	✖	10/30/23 13:35	1	MDJ
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	✖	10/30/23 13:35	1	MDJ
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	✖	10/30/23 13:35	1	MDJ
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	✖	10/30/23 13:35	1	MDJ
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	✖	10/30/23 13:35	1	MDJ
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	✖	10/30/23 13:35	1	MDJ
Hexachlorocyclopentadiene	R 0.033	U ✖	0.38	0.033	mg/Kg	✖	10/30/23 13:35	1	MDJ
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	✖	10/30/23 13:35	1	MDJ
Indeno[1,2,3-cd]pyrene	5.5		0.038	0.015	mg/Kg	✖	10/30/23 13:35	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	✖	10/30/23 13:35	1	MDJ
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	✖	10/30/23 13:35	1	MDJ
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	✖	10/30/23 13:35	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	✖	10/30/23 13:35	1	MDJ
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	✖	10/30/23 13:35	1	MDJ
Phenol	0.014	U	0.38	0.014	mg/Kg	✖	10/30/23 13:35	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	89	J N	mg/Kg	✖	5.00	90-12-0	10/30/23 13:35	1	MDJ
Naphthalene, 1-ethyl-	43	J N	mg/Kg	✖	5.34	1127-76-0	10/30/23 13:35	1	MDJ
Naphthalene, 1,6-dimethyl-	49	J N	mg/Kg	✖	5.40	575-43-9	10/30/23 13:35	1	MDJ
Naphthalene, 2,3-dimethyl-	68	J N	mg/Kg	✖	5.46	581-40-8	10/30/23 13:35	1	MDJ
Unknown	26	J N	mg/Kg	✖	5.47	N/A	10/30/23 13:35	1	MDJ
Unknown	36	J N	mg/Kg	✖	5.54	N/A	10/30/23 13:35	1	MDJ
Naphthalene, 1,6,7-trimethyl-	23	J N	mg/Kg	✖	5.79	2245-38-7	10/30/23 13:35	1	MDJ
Unknown	35	J N	mg/Kg	✖	6.20	N/A	10/30/23 13:35	1	MDJ
9H-Fluorene, 2-methyl-	26	J N	mg/Kg	✖	6.53	1430-97-3	10/30/23 13:35	1	MDJ
Dibenzothiophene	31	J N	mg/Kg	✖	6.74	132-65-0	10/30/23 13:35	1	MDJ
Phenanthrene, 1-methyl-	51	J N	mg/Kg	✖	7.21	832-69-9	10/30/23 13:35	1	MDJ
Phenanthrene, 2-methyl-	40	J N	mg/Kg	✖	7.24	2531-84-2	10/30/23 13:35	1	MDJ
Unknown	81	J N	mg/Kg	✖	7.31	N/A	10/30/23 13:35	1	MDJ
Phenanthrene, 2,5-dimethyl-	30	J N	mg/Kg	✖	7.63	3674-66-6	10/30/23 13:35	1	MDJ
Phenanthrene, 3,6-dimethyl-	32	J N	mg/Kg	✖	7.66	1576-67-6	10/30/23 13:35	1	MDJ
Benzene, 1,1'-	25	J N	mg/Kg	✖	7.82	886-66-8	10/30/23 13:35	1	MDJ
(1,3-butadiene-1,4-diyl)bis-									
Fluoranthene, 2-methyl-	40	J N	mg/Kg	✖	8.17	33543-31-6	10/30/23 13:35	1	MDJ
11H-Benzo[b]fluorene	26	J N	mg/Kg	✖	8.22	243-17-4	10/30/23 13:35	1	MDJ
Pyrene, 1-methyl-	24	J N	mg/Kg	✖	8.25	2381-21-7	10/30/23 13:35	1	MDJ
Pyrene, 2-methyl-	27	J N	mg/Kg	✖	8.32	3442-78-2	10/30/23 13:35	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(10.0-11.0)

Lab Sample ID: 460-291332-2

Date Collected: 10/26/23 10:58

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.8

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	73		24 - 137	10/30/23 13:35	1	MDJ
2-Fluorobiphenyl	78		48 - 120	10/30/23 13:35	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	10/30/23 13:35	1	MDJ
Nitrobenzene-d5 (Surr)	96		38 - 120	10/30/23 13:35	1	MDJ
Phenol-d5 (Surr)	93		39 - 120	10/30/23 13:35	1	MDJ
Terphenyl-d14 (Surr)	87		25 - 126	10/30/23 13:35	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	27	D	3.8	0.13	mg/Kg	✱	10/30/23 18:57	10	MME
2-Methylnaphthalene	28	D	3.8	0.11	mg/Kg	✱	10/30/23 18:57	10	MME
Acenaphthylene	17	D	3.8	0.11	mg/Kg	✱	10/30/23 18:57	10	MME
Anthracene	82	D	3.8	0.12	mg/Kg	✱	10/30/23 18:57	10	MME
Benzo[a]anthracene	46	D	0.38	0.29	mg/Kg	✱	10/30/23 18:57	10	MME
Benzo[a]pyrene	39	D	0.38	0.10	mg/Kg	✱	10/30/23 18:57	10	MME
Benzo[b]fluoranthene	28	D	0.38	0.098	mg/Kg	✱	10/30/23 18:57	10	MME
Benzo[k]fluoranthene	11	D	0.38	0.075	mg/Kg	✱	10/30/23 18:57	10	MME
Chrysene	43	D	3.8	0.16	mg/Kg	✱	10/30/23 18:57	10	MME
Dibenzofuran	15	D	3.8	0.13	mg/Kg	✱	10/30/23 18:57	10	MME
Fluoranthene	90	D	3.8	0.13	mg/Kg	✱	10/30/23 18:57	10	MME
Fluorene	89	D	3.8	0.11	mg/Kg	✱	10/30/23 18:57	10	MME

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	160	D	38	1.1	mg/Kg	✱	10/30/23 19:14	100	MME
Naphthalene	180	D	38	0.66	mg/Kg	✱	10/30/23 19:14	100	MME
Phenanthrene	340	D	38	1.6	mg/Kg	✱	10/30/23 19:14	100	MME
Pyrene	150	D	38	0.95	mg/Kg	✱	10/30/23 19:14	100	MME

Client Sample ID: SB-101-A(20.0-21.0)

Lab Sample ID: 460-291332-3

Date Collected: 10/26/23 11:33

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00090	0.00021	mg/Kg	✱	10/29/23 20:49	1	MZS
1,1,2,2-Tetrachloroethane	0.00019	U	0.00090	0.00019	mg/Kg	✱	10/29/23 20:49	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00090	0.00027	mg/Kg	✱	10/29/23 20:49	1	MZS
1,1,2-Trichloroethane	0.00016	U*	0.00090	0.00016	mg/Kg	✱	10/29/23 20:49	1	MZS
1,1-Dichloroethane	0.00019	U	0.00090	0.00019	mg/Kg	✱	10/29/23 20:49	1	MZS
1,1-Dichloroethene	0.00020	U	0.00090	0.00020	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2,3-Trichlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2,4-Trichlorobenzene	0.00032	U	0.00090	0.00032	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2-Dibromo-3-Chloropropane	0.00041	U	0.00090	0.00041	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2-Dichloroethane	0.00027	U	0.00090	0.00027	mg/Kg	✱	10/29/23 20:49	1	MZS
1,2-Dichloropropane	0.00038	U	0.00090	0.00038	mg/Kg	✱	10/29/23 20:49	1	MZS
1,3-Dichlorobenzene	0.00033	U	0.00090	0.00033	mg/Kg	✱	10/29/23 20:49	1	MZS
1,4-Dichlorobenzene	0.00020	U	0.00090	0.00020	mg/Kg	✱	10/29/23 20:49	1	MZS
1,4-Dioxane	0.0083	U	0.090	0.0083	mg/Kg	✱	10/29/23 20:49	1	MZS
2-Butanone (MEK)	0.0083		0.0045	0.00033	mg/Kg	✱	10/29/23 20:49	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(20.0-21.0)

Lab Sample ID: 460-291332-3

Date Collected: 10/26/23 11:33

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.0015	U	0.0045	0.0015	mg/Kg	☼	10/29/23 20:49	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	☼	10/29/23 20:49	1	MZS
Acetone	0.25	B	0.0054	0.0052	mg/Kg	☼	10/29/23 20:49	1	MZS
Benzene	0.0058		0.00090	0.00023	mg/Kg	☼	10/29/23 20:49	1	MZS
Bromoform	0.00038	U	0.00090	0.00038	mg/Kg	☼	10/29/23 20:49	1	MZS
Bromomethane	0.00090	U	0.0018	0.00090	mg/Kg	☼	10/29/23 20:49	1	MZS
Carbon disulfide	0.0075		0.00090	0.00024	mg/Kg	☼	10/29/23 20:49	1	MZS
Carbon tetrachloride	0.00035	U	0.00090	0.00035	mg/Kg	☼	10/29/23 20:49	1	MZS
Chlorobenzene	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/29/23 20:49	1	MZS
Chlorobromomethane	0.00025	U	0.00090	0.00025	mg/Kg	☼	10/29/23 20:49	1	MZS
Chlorodibromomethane	0.00017	U	0.00090	0.00017	mg/Kg	☼	10/29/23 20:49	1	MZS
Chloroethane	0.00047	U	0.00090	0.00047	mg/Kg	☼	10/29/23 20:49	1	MZS
Chloroform	0.00088	U	0.00090	0.00088	mg/Kg	☼	10/29/23 20:49	1	MZS
Chloromethane	0.00039	U	0.00090	0.00039	mg/Kg	☼	10/29/23 20:49	1	MZS
cis-1,2-Dichloroethene	0.00032	U	0.00090	0.00032	mg/Kg	☼	10/29/23 20:49	1	MZS
cis-1,3-Dichloropropene	0.00025	U	0.00090	0.00025	mg/Kg	☼	10/29/23 20:49	1	MZS
Cyclohexane	0.00076	J	0.00090	0.00020	mg/Kg	☼	10/29/23 20:49	1	MZS
Dichlorobromomethane	0.00023	U	0.00090	0.00023	mg/Kg	☼	10/29/23 20:49	1	MZS
Dichlorodifluoromethane	0.00030	U	0.00090	0.00030	mg/Kg	☼	10/29/23 20:49	1	MZS
Ethylbenzene	0.19		0.00090	0.00018	mg/Kg	☼	10/29/23 20:49	1	MZS
Ethylene Dibromide	0.00016	U	0.00090	0.00016	mg/Kg	☼	10/29/23 20:49	1	MZS
Isopropylbenzene	0.093		0.00090	0.00026	mg/Kg	☼	10/29/23 20:49	1	MZS
Methyl acetate	0.0039	U	0.0045	0.0039	mg/Kg	☼	10/29/23 20:49	1	MZS
Methyl tert-butyl ether	0.00046	U	0.00090	0.00046	mg/Kg	☼	10/29/23 20:49	1	MZS
Methylcyclohexane	0.0078		0.00090	0.00045	mg/Kg	☼	10/29/23 20:49	1	MZS
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	☼	10/29/23 20:49	1	MZS
m-Xylene & p-Xylene	0.048		0.00090	0.00016	mg/Kg	☼	10/29/23 20:49	1	MZS
o-Xylene	0.087		0.00090	0.00017	mg/Kg	☼	10/29/23 20:49	1	MZS
Styrene	0.00025	U	0.00090	0.00025	mg/Kg	☼	10/29/23 20:49	1	MZS
Tetrachloroethene	0.00028	U	0.00090	0.00028	mg/Kg	☼	10/29/23 20:49	1	MZS
Toluene	0.0038		0.00090	0.00021	mg/Kg	☼	10/29/23 20:49	1	MZS
trans-1,2-Dichloroethene	0.00022	U	0.00090	0.00022	mg/Kg	☼	10/29/23 20:49	1	MZS
trans-1,3-Dichloropropene	0.00024	U	0.00090	0.00024	mg/Kg	☼	10/29/23 20:49	1	MZS
Trichloroethene	0.00029	U	0.00090	0.00029	mg/Kg	☼	10/29/23 20:49	1	MZS
Trichlorofluoromethane	0.00037	U	0.00090	0.00037	mg/Kg	☼	10/29/23 20:49	1	MZS
Vinyl chloride	0.00049	U	0.00090	0.00049	mg/Kg	☼	10/29/23 20:49	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4-trimethyl-	0.28	J N	mg/Kg	☼	10.64	95-63-6	10/29/23 20:49	1	MZS
Indane	0.81	J N	mg/Kg	☼	11.18	496-11-7	10/29/23 20:49	1	MZS
Benzene, 4-ethyl-1,2-dimethyl-	0.14	J N	mg/Kg	☼	11.58	934-80-5	10/29/23 20:49	1	MZS
1H-Indene, 2,3-dihydro-4-methyl-	0.20	J N	mg/Kg	☼	12.11	824-22-6	10/29/23 20:49	1	MZS
Benzene, 2-ethenyl-1,4-dimethyl-	0.14	J N	mg/Kg	☼	12.23	2039-89-6	10/29/23 20:49	1	MZS
2-Methylindene	0.12	J N	mg/Kg	☼	12.27	2177-47-1	10/29/23 20:49	1	MZS
Benzene, 1-butynyl-	0.24	J N	mg/Kg	☼	12.35	622-76-4	10/29/23 20:49	1	MZS
Naphthalene	1.3	J N	mg/Kg	☼	12.70	91-20-3	10/29/23 20:49	1	MZS
Naphthalene, 2-methyl-	0.13	J N	mg/Kg	☼	13.45	91-57-6	10/29/23 20:49	1	MZS
Naphthalene, 1-methyl-	0.25	J N	mg/Kg	☼	13.59	90-12-0	10/29/23 20:49	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(20.0-21.0)

Lab Sample ID: 460-291332-3

Date Collected: 10/26/23 11:33

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.5

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	92		72 - 138	10/29/23 20:49	1	MZS
4-Bromofluorobenzene	105		63 - 139	10/29/23 20:49	1	MZS
Dibromofluoromethane (Surr)	98		54 - 150	10/29/23 20:49	1	MZS
Toluene-d8 (Surr)	101		71 - 126	10/29/23 20:49	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.6		0.38	0.013	mg/Kg	☆	10/30/23 10:58	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4-Dimethylphenol	0.046	U	0.38	0.046	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☆	10/30/23 10:58	1	MDJ
2,6-Dinitrotoluene	0.028	U	0.077	0.028	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Methylnaphthalene	2.7		0.38	0.011	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☆	10/30/23 10:58	1	MDJ
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☆	10/30/23 10:58	1	MDJ
3,3'-Dichlorobenzidine	0.058	U	0.15	0.058	mg/Kg	☆	10/30/23 10:58	1	MDJ
3-Nitroaniline	0.091	U	0.38	0.091	mg/Kg	☆	10/30/23 10:58	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Chloroaniline	0.068	U	0.38	0.068	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☆	10/30/23 10:58	1	MDJ
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☆	10/30/23 10:58	1	MDJ
Acenaphthene	8.2		0.38	0.011	mg/Kg	☆	10/30/23 10:58	1	MDJ
Acenaphthylene	1.2		0.38	0.011	mg/Kg	☆	10/30/23 10:58	1	MDJ
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☆	10/30/23 10:58	1	MDJ
Anthracene	5.0		0.38	0.012	mg/Kg	☆	10/30/23 10:58	1	MDJ
Atrazine	0.022	U ✖	0.15	0.022	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzo[a]anthracene	3.4		0.038	0.029	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzo[a]pyrene	2.7		0.038	0.010	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzo[b]fluoranthene	2.0		0.038	0.0099	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzo[g,h,i]perylene	1.0		0.38	0.011	mg/Kg	☆	10/30/23 10:58	1	MDJ
Benzo[k]fluoranthene	0.97		0.038	0.0075	mg/Kg	☆	10/30/23 10:58	1	MDJ
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	☆	10/30/23 10:58	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☆	10/30/23 10:58	1	MDJ
Bis(2-ethylhexyl) phthalate	0.021	J	0.38	0.020	mg/Kg	☆	10/30/23 10:58	1	MDJ
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☆	10/30/23 10:58	1	MDJ
Caprolactam	0.059	U	0.38	0.059	mg/Kg	☆	10/30/23 10:58	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(20.0-21.0)

Lab Sample ID: 460-291332-3

Date Collected: 10/26/23 11:33

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Carbazole	0.36	J	0.38	0.015	mg/Kg	☼	10/30/23 10:58	1	MDJ
Chrysene	3.3		0.38	0.016	mg/Kg	☼	10/30/23 10:58	1	MDJ
Dibenz(a,h)anthracene	0.30		0.038	0.017	mg/Kg	☼	10/30/23 10:58	1	MDJ
Dibenzofuran	0.76		0.38	0.013	mg/Kg	☼	10/30/23 10:58	1	MDJ
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☼	10/30/23 10:58	1	MDJ
Dimethyl phthalate	0.087	U	0.38	0.087	mg/Kg	☼	10/30/23 10:58	1	MDJ
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☼	10/30/23 10:58	1	MDJ
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☼	10/30/23 10:58	1	MDJ
Fluoranthene	6.2		0.38	0.013	mg/Kg	☼	10/30/23 10:58	1	MDJ
Fluorene	5.0		0.38	0.011	mg/Kg	☼	10/30/23 10:58	1	MDJ
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	☼	10/30/23 10:58	1	MDJ
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	☼	10/30/23 10:58	1	MDJ
Hexachlorocyclopentadiene	R 0.033	U	0.38	0.033	mg/Kg	☼	10/30/23 10:58	1	MDJ
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	☼	10/30/23 10:58	1	MDJ
Indeno[1,2,3-cd]pyrene	1.0		0.038	0.015	mg/Kg	☼	10/30/23 10:58	1	MDJ
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	10/30/23 10:58	1	MDJ
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	☼	10/30/23 10:58	1	MDJ
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	☼	10/30/23 10:58	1	MDJ
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	☼	10/30/23 10:58	1	MDJ
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	☼	10/30/23 10:58	1	MDJ
Phenol	0.014	U	0.38	0.014	mg/Kg	☼	10/30/23 10:58	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	2.3	J N	mg/Kg	☼	3.50	496-11-7	10/30/23 10:58	1	MDJ
Naphthalene, 1-methyl-	8.9	J N	mg/Kg	☼	4.96	90-12-0	10/30/23 10:58	1	MDJ
Naphthalene, 2-ethyl-	2.5	J N	mg/Kg	☼	5.31	939-27-5	10/30/23 10:58	1	MDJ
Unknown	2.8	J N	mg/Kg	☼	5.37	N/A	10/30/23 10:58	1	MDJ
Naphthalene, 2,7-dimethyl-	3.7	J N	mg/Kg	☼	5.42	582-16-1	10/30/23 10:58	1	MDJ
Naphthalene, 2,6-dimethyl-	1.8	J N	mg/Kg	☼	5.44	581-42-0	10/30/23 10:58	1	MDJ
Naphthalene, 1,4-dimethyl-	2.2	J N	mg/Kg	☼	5.51	571-58-4	10/30/23 10:58	1	MDJ
Unknown	1.5	J N	mg/Kg	☼	6.06	N/A	10/30/23 10:58	1	MDJ
Unknown	2.0	J N	mg/Kg	☼	6.25	N/A	10/30/23 10:58	1	MDJ
9H-Fluorene, 2-methyl-	1.9	J N	mg/Kg	☼	6.50	1430-97-3	10/30/23 10:58	1	MDJ
Dibenzothiophene	1.8	J N	mg/Kg	☼	6.71	132-65-0	10/30/23 10:58	1	MDJ
Anthracene, 2-methyl-	4.0	J N	mg/Kg	☼	7.17	613-12-7	10/30/23 10:58	1	MDJ
Phenanthrene, 2-methyl-	4.7	J N	mg/Kg	☼	7.19	2531-84-2	10/30/23 10:58	1	MDJ
Unknown	1.7	J N	mg/Kg	☼	7.23	N/A	10/30/23 10:58	1	MDJ
Unknown	6.6	J N	mg/Kg	☼	7.25	N/A	10/30/23 10:58	1	MDJ
Unknown	3.2	J N	mg/Kg	☼	7.27	N/A	10/30/23 10:58	1	MDJ
Naphthalene, 2-phenyl-	2.5	J N	mg/Kg	☼	7.40	612-94-2	10/30/23 10:58	1	MDJ
9,10-Dimethylantracene	2.3	J N	mg/Kg	☼	7.59	781-43-1	10/30/23 10:58	1	MDJ
Unknown	2.3	J N	mg/Kg	☼	7.77	N/A	10/30/23 10:58	1	MDJ
Perylene	1.4	J N	mg/Kg	☼	10.13	198-55-0	10/30/23 10:58	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	91		24 - 137	10/30/23 10:58	1	MDJ
2-Fluorobiphenyl	90		48 - 120	10/30/23 10:58	1	MDJ
2-Fluorophenol (Surr)	95		31 - 120	10/30/23 10:58	1	MDJ
Nitrobenzene-d5 (Surr)	95		38 - 120	10/30/23 10:58	1	MDJ
Phenol-d5 (Surr)	98		39 - 120	10/30/23 10:58	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(20.0-21.0)

Lab Sample ID: 460-291332-3

Date Collected: 10/26/23 11:33

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 86.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
Terphenyl-d14 (Surr)	98		25 - 126	10/30/23 10:58	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Naphthalene	14	D	1.9	0.033	mg/Kg	☆	10/30/23 17:47	5	MME
Phenanthrene	15	D	1.9	0.078	mg/Kg	☆	10/30/23 17:47	5	MME
Pyrene	8.4	D	1.9	0.047	mg/Kg	☆	10/30/23 17:47	5	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	10/30/23 17:47	5	MME

Client Sample ID: SB-104-A(11.0-12.0)

Lab Sample ID: 460-291332-4

Date Collected: 10/26/23 12:30

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.031	U	0.11	0.031	mg/Kg	☆	10/30/23 18:10	50	MZS
1,1,2,2-Tetrachloroethane	0.022	U	0.11	0.022	mg/Kg	☆	10/30/23 18:10	50	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.037	U	0.11	0.037	mg/Kg	☆	10/30/23 18:10	50	MZS
1,1,2-Trichloroethane	0.022	U	0.11	0.022	mg/Kg	☆	10/30/23 18:10	50	MZS
1,1-Dichloroethane	0.026	U	0.11	0.026	mg/Kg	☆	10/30/23 18:10	50	MZS
1,1-Dichloroethene	0.029	U	0.11	0.029	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2,3-Trichlorobenzene	0.038	U	0.11	0.038	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2,4-Trichlorobenzene	0.030	U	0.11	0.030	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2-Dibromo-3-Chloropropane	0.023	U	0.11	0.023	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2-Dichlorobenzene	0.024	U	0.11	0.024	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2-Dichloroethane	0.027	U	0.11	0.027	mg/Kg	☆	10/30/23 18:10	50	MZS
1,2-Dichloropropane	0.020	U	0.11	0.020	mg/Kg	☆	10/30/23 18:10	50	MZS
1,3-Dichlorobenzene	0.036	U	0.11	0.036	mg/Kg	☆	10/30/23 18:10	50	MZS
1,4-Dichlorobenzene	0.037	U	0.11	0.037	mg/Kg	☆	10/30/23 18:10	50	MZS
1,4-Dioxane	3.1	U	5.5	3.1	mg/Kg	☆	10/30/23 18:10	50	MZS
2-Butanone (MEK)	0.24	U	0.55	0.24	mg/Kg	☆	10/30/23 18:10	50	MZS
2-Hexanone	0.12	U	0.55	0.12	mg/Kg	☆	10/30/23 18:10	50	MZS
4-Methyl-2-pentanone (MIBK)	0.14	U	0.55	0.14	mg/Kg	☆	10/30/23 18:10	50	MZS
Acetone	0.49	U J	0.55	0.49	mg/Kg	☆	10/30/23 18:10	50	MZS
Benzene	0.10	J	0.11	0.022	mg/Kg	☆	10/30/23 18:10	50	MZS
Bromoform	0.020	U	0.11	0.020	mg/Kg	☆	10/30/23 18:10	50	MZS
Bromomethane	0.061	U	0.11	0.061	mg/Kg	☆	10/30/23 18:10	50	MZS
Carbon disulfide	0.089	J	0.11	0.074	mg/Kg	☆	10/30/23 18:10	50	MZS
Carbon tetrachloride	0.036	U	0.11	0.036	mg/Kg	☆	10/30/23 18:10	50	MZS
Chlorobenzene	0.026	U	0.11	0.026	mg/Kg	☆	10/30/23 18:10	50	MZS
Chlorobromomethane	0.033	U	0.11	0.033	mg/Kg	☆	10/30/23 18:10	50	MZS
Chlorodibromomethane	0.024	U	0.11	0.024	mg/Kg	☆	10/30/23 18:10	50	MZS
Chloroethane	0.041	U	0.11	0.041	mg/Kg	☆	10/30/23 18:10	50	MZS
Chloroform	0.024	U	0.11	0.024	mg/Kg	☆	10/30/23 18:10	50	MZS
Chloromethane	0.044	U	0.11	0.044	mg/Kg	☆	10/30/23 18:10	50	MZS
cis-1,2-Dichloroethene	0.029	U	0.11	0.029	mg/Kg	☆	10/30/23 18:10	50	MZS
cis-1,3-Dichloropropene	0.024	U	0.11	0.024	mg/Kg	☆	10/30/23 18:10	50	MZS
Cyclohexane	0.72		0.11	0.029	mg/Kg	☆	10/30/23 18:10	50	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(11.0-12.0)

Lab Sample ID: 460-291332-4

Date Collected: 10/26/23 12:30

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Dichlorobromomethane	0.016	U	0.11	0.016	mg/Kg	☼	10/30/23 18:10	50	MZS
Dichlorodifluoromethane	0.034	U J	0.11	0.034	mg/Kg	☼	10/30/23 18:10	50	MZS
Ethylbenzene	17		0.11	0.033	mg/Kg	☼	10/30/23 18:10	50	MZS
Ethylene Dibromide	0.021	U	0.11	0.021	mg/Kg	☼	10/30/23 18:10	50	MZS
Isopropylbenzene	2.9		0.11	0.035	mg/Kg	☼	10/30/23 18:10	50	MZS
Methyl acetate	0.086	U	0.55	0.086	mg/Kg	☼	10/30/23 18:10	50	MZS
Methyl tert-butyl ether	0.023	U	0.11	0.023	mg/Kg	☼	10/30/23 18:10	50	MZS
Methylcyclohexane	5.4		0.11	0.080	mg/Kg	☼	10/30/23 18:10	50	MZS
Methylene Chloride	0.056	J	0.11	0.023	mg/Kg	☼	10/30/23 18:10	50	MZS
m-Xylene & p-Xylene	4.7		0.11	0.031	mg/Kg	☼	10/30/23 18:10	50	MZS
o-Xylene	6.0		0.11	0.035	mg/Kg	☼	10/30/23 18:10	50	MZS
Styrene	0.019	U	0.11	0.019	mg/Kg	☼	10/30/23 18:10	50	MZS
Tetrachloroethene	0.040	U	0.11	0.040	mg/Kg	☼	10/30/23 18:10	50	MZS
Toluene	0.26		0.11	0.027	mg/Kg	☼	10/30/23 18:10	50	MZS
trans-1,2-Dichloroethene	0.020	U	0.11	0.020	mg/Kg	☼	10/30/23 18:10	50	MZS
trans-1,3-Dichloropropene	0.024	U	0.11	0.024	mg/Kg	☼	10/30/23 18:10	50	MZS
Trichloroethene	0.024	U	0.11	0.024	mg/Kg	☼	10/30/23 18:10	50	MZS
Trichlorofluoromethane	0.035	U	0.11	0.035	mg/Kg	☼	10/30/23 18:10	50	MZS
Vinyl chloride	0.022	U	0.11	0.022	mg/Kg	☼	10/30/23 18:10	50	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-ethyl-4-methyl-	7.4	J N	mg/Kg	☼	11.05	622-96-8	10/30/23 18:10	50	MZS
Benzene, 1,2,4-trimethyl-	7.9	J N	mg/Kg	☼	11.64	95-63-6	10/30/23 18:10	50	MZS
Indane	34	J N	mg/Kg	☼	12.22	496-11-7	10/30/23 18:10	50	MZS
Benzene, 1,2-diethyl-	4.7	J N	mg/Kg	☼	12.25	135-01-3	10/30/23 18:10	50	MZS
1H-Indene, 2,3-dihydro-4-methyl-	5.8	J N	mg/Kg	☼	13.10	824-22-6	10/30/23 18:10	50	MZS
1H-Indene, 1-methyl-	6.5	J N	mg/Kg	☼	13.24	767-59-9	10/30/23 18:10	50	MZS
Benzene, (1-methyl-2-cyclopropen-1-yl)-	10	J N	mg/Kg	☼	13.29	65051-83-4	10/30/23 18:10	50	MZS
Naphthalene	81	J N	mg/Kg	☼	13.58	91-20-3	10/30/23 18:10	50	MZS
Naphthalene, 2-methyl-	6.8	J N	mg/Kg	☼	14.35	91-57-6	10/30/23 18:10	50	MZS
Naphthalene, 1-methyl-	15	J N	mg/Kg	☼	14.50	90-12-0	10/30/23 18:10	50	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	118		68 - 150	10/30/23 18:10	50	MZS
4-Bromofluorobenzene	108		70 - 141	10/30/23 18:10	50	MZS
Dibromofluoromethane (Surr)	107		68 - 142	10/30/23 18:10	50	MZS
Toluene-d8 (Surr)	111		73 - 147	10/30/23 18:10	50	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	5.1		0.41	0.014	mg/Kg	☼	10/30/23 11:16	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.013	U	0.41	0.013	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,2'-oxybis[1-chloropropane]	0.025	U	0.41	0.025	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,3,4,6-Tetrachlorophenol	0.028	U	0.41	0.028	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,4,5-Trichlorophenol	0.042	U	0.41	0.042	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,4,6-Trichlorophenol	0.053	U	0.17	0.053	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,4-Dichlorophenol	0.026	U	0.17	0.026	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,4-Dimethylphenol	0.049	U	0.41	0.049	mg/Kg	☼	10/30/23 11:16	1	MDJ
2,4-Dinitrophenol	0.20	U	0.33	0.20	mg/Kg	☼	10/30/23 11:16	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(11.0-12.0)

Lab Sample ID: 460-291332-4

Date Collected: 10/26/23 12:30

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 80.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dinitrotoluene	0.044	U	0.083	0.044	mg/Kg	✱	10/30/23 11:16	1	MDJ
2,6-Dinitrotoluene	0.030	U	0.083	0.030	mg/Kg	✱	10/30/23 11:16	1	MDJ
2-Chloronaphthalene	0.019	U	0.41	0.019	mg/Kg	✱	10/30/23 11:16	1	MDJ
2-Chlorophenol	0.015	U	0.41	0.015	mg/Kg	✱	10/30/23 11:16	1	MDJ
2-Methylphenol	0.015	U	0.41	0.015	mg/Kg	✱	10/30/23 11:16	1	MDJ
2-Nitroaniline	0.031	U	0.41	0.031	mg/Kg	✱	10/30/23 11:16	1	MDJ
2-Nitrophenol	0.041	U	0.41	0.041	mg/Kg	✱	10/30/23 11:16	1	MDJ
3,3'-Dichlorobenzidine	0.062	U	0.17	0.062	mg/Kg	✱	10/30/23 11:16	1	MDJ
3-Nitroaniline	0.098	U	0.41	0.098	mg/Kg	✱	10/30/23 11:16	1	MDJ
4,6-Dinitro-2-methylphenol	0.17	U	0.33	0.17	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Bromophenyl phenyl ether	0.016	U	0.41	0.016	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Chloro-3-methylphenol	0.023	U	0.41	0.023	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Chloroaniline	0.073	U	0.41	0.073	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Chlorophenyl phenyl ether	0.015	U	0.41	0.015	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Methylphenol	0.026	U	0.41	0.026	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Nitroaniline	0.047	U	0.41	0.047	mg/Kg	✱	10/30/23 11:16	1	MDJ
4-Nitrophenol	0.067	U	0.83	0.067	mg/Kg	✱	10/30/23 11:16	1	MDJ
Acenaphthylene	2.6		0.41	0.012	mg/Kg	✱	10/30/23 11:16	1	MDJ
Acetophenone	0.020	U	0.41	0.020	mg/Kg	✱	10/30/23 11:16	1	MDJ
Atrazine	0.024	U ✱	0.17	0.024	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzaldehyde	0.068	U	0.41	0.068	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzo[a]anthracene	9.9		0.041	0.031	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzo[a]pyrene	8.1		0.041	0.011	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzo[b]fluoranthene	5.5		0.041	0.011	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzo[g,h,i]perylene	2.7		0.41	0.012	mg/Kg	✱	10/30/23 11:16	1	MDJ
Benzo[k]fluoranthene	2.0		0.041	0.0081	mg/Kg	✱	10/30/23 11:16	1	MDJ
Bis(2-chloroethoxy)methane	0.032	U	0.41	0.032	mg/Kg	✱	10/30/23 11:16	1	MDJ
Bis(2-chloroethyl)ether	0.014	U	0.041	0.014	mg/Kg	✱	10/30/23 11:16	1	MDJ
Bis(2-ethylhexyl) phthalate	0.022	U	0.41	0.022	mg/Kg	✱	10/30/23 11:16	1	MDJ
Butyl benzyl phthalate	0.019	U	0.41	0.019	mg/Kg	✱	10/30/23 11:16	1	MDJ
Caprolactam	0.064	U	0.41	0.064	mg/Kg	✱	10/30/23 11:16	1	MDJ
Carbazole	0.70		0.41	0.016	mg/Kg	✱	10/30/23 11:16	1	MDJ
Chrysene	8.3		0.41	0.017	mg/Kg	✱	10/30/23 11:16	1	MDJ
Dibenz(a,h)anthracene	0.65		0.041	0.018	mg/Kg	✱	10/30/23 11:16	1	MDJ
Dibenzofuran	1.9		0.41	0.014	mg/Kg	✱	10/30/23 11:16	1	MDJ
Diethyl phthalate	0.013	U	0.41	0.013	mg/Kg	✱	10/30/23 11:16	1	MDJ
Dimethyl phthalate	0.094	U	0.41	0.094	mg/Kg	✱	10/30/23 11:16	1	MDJ
Di-n-butyl phthalate	0.016	U	0.41	0.016	mg/Kg	✱	10/30/23 11:16	1	MDJ
Di-n-octyl phthalate	0.022	U	0.41	0.022	mg/Kg	✱	10/30/23 11:16	1	MDJ
Hexachlorobenzene	0.020	U	0.041	0.020	mg/Kg	✱	10/30/23 11:16	1	MDJ
Hexachlorobutadiene	0.0088	U	0.083	0.0088	mg/Kg	✱	10/30/23 11:16	1	MDJ
Hexachlorocyclopentadiene	R 0.036	U ✱	0.41	0.036	mg/Kg	✱	10/30/23 11:16	1	MDJ
Hexachloroethane	0.014	U	0.041	0.014	mg/Kg	✱	10/30/23 11:16	1	MDJ
Indeno[1,2,3-cd]pyrene	2.7		0.041	0.016	mg/Kg	✱	10/30/23 11:16	1	MDJ
Isophorone	0.12	U	0.17	0.12	mg/Kg	✱	10/30/23 11:16	1	MDJ
Nitrobenzene	0.023	U	0.041	0.023	mg/Kg	✱	10/30/23 11:16	1	MDJ
N-Nitrosodi-n-propylamine	0.030	U	0.041	0.030	mg/Kg	✱	10/30/23 11:16	1	MDJ
N-Nitrosodiphenylamine	0.034	U	0.41	0.034	mg/Kg	✱	10/30/23 11:16	1	MDJ
Pentachlorophenol	0.084	U	0.33	0.084	mg/Kg	✱	10/30/23 11:16	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(11.0-12.0)

Lab Sample ID: 460-291332-4

Date Collected: 10/26/23 12:30

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 80.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Phenol	0.015	U	0.41	0.015	mg/Kg	☼	10/30/23 11:16	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	11	J N	mg/Kg	☼	3.50	496-11-7	10/30/23 11:16	1	MDJ
Naphthalene, 1-methyl-	35	J N	mg/Kg	☼	4.97	90-12-0	10/30/23 11:16	1	MDJ
Naphthalene, 2-ethyl-	19	J N	mg/Kg	☼	5.32	939-27-5	10/30/23 11:16	1	MDJ
Naphthalene, 2,6-dimethyl-	13	J N	mg/Kg	☼	5.37	581-42-0	10/30/23 11:16	1	MDJ
Naphthalene, 1,7-dimethyl-	18	J N	mg/Kg	☼	5.43	575-37-1	10/30/23 11:16	1	MDJ
Naphthalene, 2,7-dimethyl-	10	J N	mg/Kg	☼	5.45	582-16-1	10/30/23 11:16	1	MDJ
Naphthalene, 1,4-dimethyl-	13	J N	mg/Kg	☼	5.51	571-58-4	10/30/23 11:16	1	MDJ
Unknown	9.8	J N	mg/Kg	☼	6.07	N/A	10/30/23 11:16	1	MDJ
Unknown	8.0	J N	mg/Kg	☼	6.18	N/A	10/30/23 11:16	1	MDJ
9H-Fluorene, 2-methyl-	9.7	J N	mg/Kg	☼	6.51	1430-97-3	10/30/23 11:16	1	MDJ
Unknown	7.2	J N	mg/Kg	☼	6.57	N/A	10/30/23 11:16	1	MDJ
Dibenzothiophene	8.7	J N	mg/Kg	☼	6.72	132-65-0	10/30/23 11:16	1	MDJ
Anthracene, 9-methyl-	18	J N	mg/Kg	☼	7.19	779-02-2	10/30/23 11:16	1	MDJ
Phenanthrene, 1-methyl-	21	J N	mg/Kg	☼	7.21	832-69-9	10/30/23 11:16	1	MDJ
Unknown	8.4	J N	mg/Kg	☼	7.24	N/A	10/30/23 11:16	1	MDJ
Phenanthrene, 4-methyl-	29	J N	mg/Kg	☼	7.27	832-64-4	10/30/23 11:16	1	MDJ
Unknown	12	J N	mg/Kg	☼	7.29	N/A	10/30/23 11:16	1	MDJ
Naphthalene, 2-phenyl-	9.2	J N	mg/Kg	☼	7.41	612-94-2	10/30/23 11:16	1	MDJ
Phenanthrene, 2,5-dimethyl-	12	J N	mg/Kg	☼	7.60	3674-66-6	10/30/23 11:16	1	MDJ
Unknown	13	J N	mg/Kg	☼	7.79	N/A	10/30/23 11:16	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	76		24 - 137	10/30/23 11:16	1	MDJ
2-Fluorobiphenyl	79		48 - 120	10/30/23 11:16	1	MDJ
2-Fluorophenol (Surr)	85		31 - 120	10/30/23 11:16	1	MDJ
Nitrobenzene-d5 (Surr)	87		38 - 120	10/30/23 11:16	1	MDJ
Phenol-d5 (Surr)	89		39 - 120	10/30/23 11:16	1	MDJ
Terphenyl-d14 (Surr)	82		25 - 126	10/30/23 11:16	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylnaphthalene	15	D	4.1	0.12	mg/Kg	☼	10/30/23 18:05	10	MME
Acenaphthene	38	D	4.1	0.12	mg/Kg	☼	10/30/23 18:05	10	MME
Anthracene	18	D	4.1	0.13	mg/Kg	☼	10/30/23 18:05	10	MME
Fluoranthene	19	D	4.1	0.14	mg/Kg	☼	10/30/23 18:05	10	MME
Fluorene	18	D	4.1	0.12	mg/Kg	☼	10/30/23 18:05	10	MME
Naphthalene	68	D	4.1	0.071	mg/Kg	☼	10/30/23 18:05	10	MME
Phenanthrene	66	D	4.1	0.17	mg/Kg	☼	10/30/23 18:05	10	MME
Pyrene	31	D	4.1	0.10	mg/Kg	☼	10/30/23 18:05	10	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	4.4	J D	mg/Kg	☼	6.01	N/A	10/30/23 18:05	10	MME

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(26.5-27.5)

Lab Sample ID: 460-291332-5

Date Collected: 10/26/23 11:46

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00085	0.00020	mg/Kg	☆	10/29/23 21:35	1	MZS
1,1,2,2-Tetrachloroethane	0.00018	U	0.00085	0.00018	mg/Kg	☆	10/29/23 21:35	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00085	0.00026	mg/Kg	☆	10/29/23 21:35	1	MZS
1,1,2-Trichloroethane	0.00015	~~U~~ F1 UJ	0.00085	0.00015	mg/Kg	☆	10/29/23 21:35	1	MZS
1,1-Dichloroethane	0.00018	~~U~~ F1 UJ	0.00085	0.00018	mg/Kg	☆	10/29/23 21:35	1	MZS
1,1-Dichloroethene	0.00019	U	0.00085	0.00019	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2,3-Trichlorobenzene	0.00015	U F1 UJ	0.00085	0.00015	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2,4-Trichlorobenzene	0.00031	U F1 UJ	0.00085	0.00031	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2-Dibromo-3-Chloropropane	0.00039	U F1 UJ	0.00085	0.00039	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2-Dichlorobenzene	0.00031	U F1 UJ	0.00085	0.00031	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2-Dichloroethane	0.00025	U F1 UJ	0.00085	0.00025	mg/Kg	☆	10/29/23 21:35	1	MZS
1,2-Dichloropropane	0.00036	U F1 UJ	0.00085	0.00036	mg/Kg	☆	10/29/23 21:35	1	MZS
1,3-Dichlorobenzene	0.00031	U F1 UJ	0.00085	0.00031	mg/Kg	☆	10/29/23 21:35	1	MZS
1,4-Dichlorobenzene	0.00019	U F1 UJ	0.00085	0.00019	mg/Kg	☆	10/29/23 21:35	1	MZS
1,4-Dioxane	0.0078	U F1 UJ	0.085	0.0078	mg/Kg	☆	10/29/23 21:35	1	MZS
2-Butanone (MEK)	0.0077		0.0043	0.00031	mg/Kg	☆	10/29/23 21:35	1	MZS
2-Hexanone	0.0015	U	0.0043	0.0015	mg/Kg	☆	10/29/23 21:35	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0043	0.0013	mg/Kg	☆	10/29/23 21:35	1	MZS
Acetone	0.22	~~B~~ F1 J	0.0051	0.0049	mg/Kg	☆	10/29/23 21:35	1	MZS
Benzene	0.00030	J	0.00085	0.00022	mg/Kg	☆	10/29/23 21:35	1	MZS
Bromoform	0.00036	U	0.00085	0.00036	mg/Kg	☆	10/29/23 21:35	1	MZS
Bromomethane	0.00085	U	0.0017	0.00085	mg/Kg	☆	10/29/23 21:35	1	MZS
Carbon disulfide	0.0037		0.00085	0.00023	mg/Kg	☆	10/29/23 21:35	1	MZS
Carbon tetrachloride	0.00033	U	0.00085	0.00033	mg/Kg	☆	10/29/23 21:35	1	MZS
Chlorobenzene	0.00015	~~U~~ F1 UJ	0.00085	0.00015	mg/Kg	☆	10/29/23 21:35	1	MZS
Chlorobromomethane	0.00024	U	0.00085	0.00024	mg/Kg	☆	10/29/23 21:35	1	MZS
Chlorodibromomethane	0.00017	U	0.00085	0.00017	mg/Kg	☆	10/29/23 21:35	1	MZS
Chloroethane	0.00045	U	0.00085	0.00045	mg/Kg	☆	10/29/23 21:35	1	MZS
Chloroform	0.00083	~~U~~ F1 UJ	0.00085	0.00083	mg/Kg	☆	10/29/23 21:35	1	MZS
Chloromethane	0.00037	U	0.00085	0.00037	mg/Kg	☆	10/29/23 21:35	1	MZS
cis-1,2-Dichloroethene	0.00031	U	0.00085	0.00031	mg/Kg	☆	10/29/23 21:35	1	MZS
cis-1,3-Dichloropropene	0.00023	~~U~~ F1 UJ	0.00085	0.00023	mg/Kg	☆	10/29/23 21:35	1	MZS
Cyclohexane	0.00019	U	0.00085	0.00019	mg/Kg	☆	10/29/23 21:35	1	MZS
Dichlorobromomethane	0.00022	U	0.00085	0.00022	mg/Kg	☆	10/29/23 21:35	1	MZS
Dichlorodifluoromethane	0.00029	U	0.00085	0.00029	mg/Kg	☆	10/29/23 21:35	1	MZS
Ethylbenzene	0.0041	~~F~~ 1 J	0.00085	0.00017	mg/Kg	☆	10/29/23 21:35	1	MZS
Ethylene Dibromide	0.00015	~~U~~ F1 UJ	0.00085	0.00015	mg/Kg	☆	10/29/23 21:35	1	MZS
Isopropylbenzene	0.0012	~~F~~ 1 J	0.00085	0.00024	mg/Kg	☆	10/29/23 21:35	1	MZS
Methyl acetate	0.0037	U	0.0043	0.0037	mg/Kg	☆	10/29/23 21:35	1	MZS
Methyl tert-butyl ether	0.00044	U	0.00085	0.00044	mg/Kg	☆	10/29/23 21:35	1	MZS
Methylcyclohexane	0.00043	~~U~~ F1 UJ	0.00085	0.00043	mg/Kg	☆	10/29/23 21:35	1	MZS
Methylene Chloride	0.00098	U	0.0017	0.00098	mg/Kg	☆	10/29/23 21:35	1	MZS
m-Xylene & p-Xylene	0.0013	~~F~~ 1 J	0.00085	0.00015	mg/Kg	☆	10/29/23 21:35	1	MZS
o-Xylene	0.0017	~~F~~ 1 J	0.00085	0.00017	mg/Kg	☆	10/29/23 21:35	1	MZS
Styrene	0.00099	~~F~~ 1 J	0.00085	0.00024	mg/Kg	☆	10/29/23 21:35	1	MZS
Tetrachloroethene	0.00026	~~U~~ F1 UJ	0.00085	0.00026	mg/Kg	☆	10/29/23 21:35	1	MZS
Toluene	0.00025	~~J~~ F1 J	0.00085	0.00020	mg/Kg	☆	10/29/23 21:35	1	MZS
trans-1,2-Dichloroethene	0.00021	U	0.00085	0.00021	mg/Kg	☆	10/29/23 21:35	1	MZS
trans-1,3-Dichloropropene	0.00023	~~U~~ F1 UJ	0.00085	0.00023	mg/Kg	☆	10/29/23 21:35	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(26.5-27.5)

Lab Sample ID: 460-291332-5

Date Collected: 10/26/23 11:46

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00027	U F1 UJ	0.00085	0.00027	mg/Kg	☼	10/29/23 21:35	1	MZS
Trichlorofluoromethane	0.00035	U	0.00085	0.00035	mg/Kg	☼	10/29/23 21:35	1	MZS
Vinyl chloride	0.00047	U	0.00085	0.00047	mg/Kg	☼	10/29/23 21:35	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1-methyl-3-(1-methylethyl)-	0.068	J N	mg/Kg	☼	12.23	535-77-3	10/29/23 21:35	1	MZS
Unknown	0.085	J N	mg/Kg	☼	12.34	N/A	10/29/23 21:35	1	MZS
Naphthalene	0.74	J N	mg/Kg	☼	12.67	91-20-3	10/29/23 21:35	1	MZS
Unknown	0.065	J N	mg/Kg	☼	12.77	N/A	10/29/23 21:35	1	MZS
1H-Indene, 1,1-dimethyl-	0.065	J N	mg/Kg	☼	13.09	18636-55-0	10/29/23 21:35	1	MZS
Naphthalene, 2-methyl-	0.18	J N	mg/Kg	☼	13.45	91-57-6	10/29/23 21:35	1	MZS
Naphthalene, 1-methyl-	0.65	J N	mg/Kg	☼	13.59	90-12-0	10/29/23 21:35	1	MZS
Biphenyl	0.087	J N	mg/Kg	☼	13.97	92-52-4	10/29/23 21:35	1	MZS
Naphthalene, 2-ethyl-	0.081	J N	mg/Kg	☼	14.13	939-27-5	10/29/23 21:35	1	MZS
Naphthalene, 2,7-dimethyl-	0.062	J N	mg/Kg	☼	14.22	582-16-1	10/29/23 21:35	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	91		72 - 138	10/29/23 21:35	1	MZS
4-Bromofluorobenzene	101		63 - 139	10/29/23 21:35	1	MZS
Dibromofluoromethane (Surr)	101		54 - 150	10/29/23 21:35	1	MZS
Toluene-d8 (Surr)	98		71 - 126	10/29/23 21:35	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	1.9	F1 J	0.35	0.012	mg/Kg	☼	10/30/23 14:27	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U F1	0.35	0.021	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4,6-Trichlorophenol	0.046	U	0.14	0.046	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4-Dichlorophenol	0.023	U	0.14	0.023	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4-Dinitrophenol	R 0.17	U F2 F1	0.29	0.17	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,4-Dinitrotoluene	0.038	U F2 F1 UJ	0.072	0.038	mg/Kg	☼	10/30/23 14:27	1	MDJ
2,6-Dinitrotoluene	0.026	U	0.072	0.026	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Chlorophenol	0.013	U	0.35	0.013	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Methylnaphthalene	0.13	J	0.35	0.0099	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Nitroaniline	0.027	U F1	0.35	0.027	mg/Kg	☼	10/30/23 14:27	1	MDJ
2-Nitrophenol	0.036	U	0.35	0.036	mg/Kg	☼	10/30/23 14:27	1	MDJ
3,3'-Dichlorobenzidine	0.054	U	0.14	0.054	mg/Kg	☼	10/30/23 14:27	1	MDJ
3-Nitroaniline	0.084	U	0.35	0.084	mg/Kg	☼	10/30/23 14:27	1	MDJ
4,6-Dinitro-2-methylphenol	R 0.14	U F2 F1	0.29	0.14	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Chloroaniline	0.063	U	0.35	0.063	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Chlorophenyl phenyl ether	0.013	U	0.35	0.013	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	10/30/23 14:27	1	MDJ
4-Nitroaniline	0.041	U F1	0.35	0.041	mg/Kg	☼	10/30/23 14:27	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(26.5-27.5)

Lab Sample ID: 460-291332-5

Date Collected: 10/26/23 11:46

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 92.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Nitrophenol	0.058	U F1	0.72	0.058	mg/Kg	✱	10/30/23 14:27	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	✱	10/30/23 14:27	1	MDJ
Atrazine	0.021	U F1	0.14	0.021	mg/Kg	✱	10/30/23 14:27	1	MDJ
Benzaldehyde	0.059	U F1	0.35	0.059	mg/Kg	✱	10/30/23 14:27	1	MDJ
Benzo[g,h,i]perylene	2.6	J	0.35	0.010	mg/Kg	✱	10/30/23 14:27	1	MDJ
Benzo[k]fluoranthene	4.5	F1 J	0.035	0.0070	mg/Kg	✱	10/30/23 14:27	1	MDJ
Bis(2-chloroethoxy)methane	0.028	U F1	0.35	0.028	mg/Kg	✱	10/30/23 14:27	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	✱	10/30/23 14:27	1	MDJ
Bis(2-ethylhexyl) phthalate	0.019	U F1	0.35	0.019	mg/Kg	✱	10/30/23 14:27	1	MDJ
Butyl benzyl phthalate	0.017	U	0.35	0.017	mg/Kg	✱	10/30/23 14:27	1	MDJ
Caprolactam	0.055	U F1	0.35	0.055	mg/Kg	✱	10/30/23 14:27	1	MDJ
Carbazole	0.22	J	0.35	0.014	mg/Kg	✱	10/30/23 14:27	1	MDJ
Dibenz(a,h)anthracene	0.66	J	0.035	0.015	mg/Kg	✱	10/30/23 14:27	1	MDJ
Dibenzofuran	7.6	F2 F1 J	0.35	0.012	mg/Kg	✱	10/30/23 14:27	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	✱	10/30/23 14:27	1	MDJ
Dimethyl phthalate	0.081	U	0.35	0.081	mg/Kg	✱	10/30/23 14:27	1	MDJ
Di-n-butyl phthalate	0.013	U F1	0.35	0.013	mg/Kg	✱	10/30/23 14:27	1	MDJ
Di-n-octyl phthalate	0.019	U F1	0.35	0.019	mg/Kg	✱	10/30/23 14:27	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	✱	10/30/23 14:27	1	MDJ
Hexachlorobutadiene	0.0076	U	0.072	0.0076	mg/Kg	✱	10/30/23 14:27	1	MDJ
Hexachlorocyclopentadiene	R 0.031	U F1	0.35	0.031	mg/Kg	✱	10/30/23 14:27	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	✱	10/30/23 14:27	1	MDJ
Indeno[1,2,3-cd]pyrene	2.7	F1 J	0.035	0.014	mg/Kg	✱	10/30/23 14:27	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	✱	10/30/23 14:27	1	MDJ
Naphthalene	0.43		0.35	0.0061	mg/Kg	✱	10/30/23 14:27	1	MDJ
Nitrobenzene	0.020	U	0.035	0.020	mg/Kg	✱	10/30/23 14:27	1	MDJ
N-Nitrosodi-n-propylamine	0.026	U F1	0.035	0.026	mg/Kg	✱	10/30/23 14:27	1	MDJ
N-Nitrosodiphenylamine	0.029	U F1	0.35	0.029	mg/Kg	✱	10/30/23 14:27	1	MDJ
Pentachlorophenol	0.073	U	0.29	0.073	mg/Kg	✱	10/30/23 14:27	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	✱	10/30/23 14:27	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1,6,7-trimethyl-	6.4	J N	mg/Kg	✱	5.93	2245-38-7	10/30/23 14:27	1	MDJ
Unknown	6.8	J N	mg/Kg	✱	6.07	N/A	10/30/23 14:27	1	MDJ
9H-Fluoren-9-ol	6.6	J N	mg/Kg	✱	6.22	1689-64-1	10/30/23 14:27	1	MDJ
9H-Fluorene, 1-methyl-	9.1	J N	mg/Kg	✱	6.51	1730-37-6	10/30/23 14:27	1	MDJ
Dibenzothiophene	7.4	J N	mg/Kg	✱	6.73	132-65-0	10/30/23 14:27	1	MDJ
Phenanthrene, 1-methyl-	16	J N	mg/Kg	✱	7.19	832-69-9	10/30/23 14:27	1	MDJ
Phenanthrene, 2-methyl-	16	J N	mg/Kg	✱	7.21	2531-84-2	10/30/23 14:27	1	MDJ
Anthracene, 2-methyl-	8.3	J N	mg/Kg	✱	7.25	613-12-7	10/30/23 14:27	1	MDJ
Unknown	24	J N	mg/Kg	✱	7.28	N/A	10/30/23 14:27	1	MDJ
Unknown	9.2	J N	mg/Kg	✱	7.30	N/A	10/30/23 14:27	1	MDJ
Naphthalene, 2-phenyl-	8.8	J N	mg/Kg	✱	7.41	612-94-2	10/30/23 14:27	1	MDJ
9,10-Dimethylantracene	9.6	J N	mg/Kg	✱	7.60	781-43-1	10/30/23 14:27	1	MDJ
Unknown	11	J N	mg/Kg	✱	7.79	N/A	10/30/23 14:27	1	MDJ
Unknown	8.6	J N	mg/Kg	✱	8.06	N/A	10/30/23 14:27	1	MDJ
Unknown	10	J N	mg/Kg	✱	8.13	N/A	10/30/23 14:27	1	MDJ
Fluoranthene, 2-methyl-	16	J N	mg/Kg	✱	8.14	33543-31-6	10/30/23 14:27	1	MDJ
Unknown	12	J N	mg/Kg	✱	8.22	N/A	10/30/23 14:27	1	MDJ
Unknown	9.7	J N	mg/Kg	✱	8.29	N/A	10/30/23 14:27	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-101-A(26.5-27.5)

Lab Sample ID: 460-291332-5

Date Collected: 10/26/23 11:46

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 92.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Pyrene, 1-methyl-	12	J N	mg/Kg	⊛	8.31	2381-21-7	10/30/23 14:27	1	MDJ
Chrysene, 1-methyl-	9.5	J N	mg/Kg	⊛	9.24	3351-28-8	10/30/23 14:27	1	MDJ
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	90		24 - 137				10/30/23 14:27	1	MDJ
2-Fluorobiphenyl	89		48 - 120				10/30/23 14:27	1	MDJ
2-Fluorophenol (Surr)	89		31 - 120				10/30/23 14:27	1	MDJ
Nitrobenzene-d5 (Surr)	91		38 - 120				10/30/23 14:27	1	MDJ
Phenol-d5 (Surr)	93		39 - 120				10/30/23 14:27	1	MDJ
Terphenyl-d14 (Surr)	87		25 - 126				10/30/23 14:27	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	20	D	7.1	0.20	mg/Kg	⊛	10/30/23 19:49	20	MME
Acenaphthylene	11	D	7.1	0.20	mg/Kg	⊛	10/30/23 19:49	20	MME
Anthracene	23	D	7.1	0.22	mg/Kg	⊛	10/30/23 19:49	20	MME
Benzo[a]anthracene	20	D	0.71	0.53	mg/Kg	⊛	10/30/23 19:49	20	MME
Benzo[a]pyrene	16	D	0.71	0.19	mg/Kg	⊛	10/30/23 19:49	20	MME
Benzo[b]fluoranthene	12	D	0.71	0.18	mg/Kg	⊛	10/30/23 19:49	20	MME
Chrysene	17	D	7.1	0.30	mg/Kg	⊛	10/30/23 19:49	20	MME
Fluoranthene	36	D	7.1	0.25	mg/Kg	⊛	10/30/23 19:49	20	MME
Fluorene	25	D	7.1	0.21	mg/Kg	⊛	10/30/23 19:49	20	MME
Phenanthrene	93	D	7.1	0.29	mg/Kg	⊛	10/30/23 19:49	20	MME
Pyrene	52	D	7.1	0.18	mg/Kg	⊛	10/30/23 19:49	20	MME
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/30/23 19:49	20	MME

Client Sample ID: SB-104-A(17.0-17.5)

Lab Sample ID: 460-291332-6

Date Collected: 10/26/23 13:06

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00084	0.00020	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,1,2,2-Tetrachloroethane	0.00018	U	0.00084	0.00018	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00025	U	0.00084	0.00025	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,1,2-Trichloroethane	0.00015	U	0.00084	0.00015	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,1-Dichloroethane	0.00017	U	0.00084	0.00017	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,1-Dichloroethene	0.00019	U	0.00084	0.00019	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2,3-Trichlorobenzene	0.00015	U	0.00084	0.00015	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2,4-Trichlorobenzene	0.00030	U	0.00084	0.00030	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2-Dibromo-3-Chloropropane	0.00039	U	0.00084	0.00039	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2-Dichlorobenzene	0.00030	U	0.00084	0.00030	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2-Dichloroethane	0.00025	U	0.00084	0.00025	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,2-Dichloropropane	0.00036	U	0.00084	0.00036	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,3-Dichlorobenzene	0.00031	U	0.00084	0.00031	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,4-Dichlorobenzene	0.00019	U	0.00084	0.00019	mg/Kg	⊛	10/29/23 21:58	1	MZS
1,4-Dioxane	0.0077	U	0.084	0.0077	mg/Kg	⊛	10/29/23 21:58	1	MZS
2-Butanone (MEK)	0.012		0.0042	0.00031	mg/Kg	⊛	10/29/23 21:58	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(17.0-17.5)

Lab Sample ID: 460-291332-6

Date Collected: 10/26/23 13:06

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Hexanone	0.0014	U	0.0042	0.0014	mg/Kg	☼	10/29/23 21:58	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0042	0.0013	mg/Kg	☼	10/29/23 21:58	1	MZS
Acetone	0.061	B	0.0051	0.0048	mg/Kg	☼	10/29/23 21:58	1	MZS
Benzene	0.00066	J	0.00084	0.00022	mg/Kg	☼	10/29/23 21:58	1	MZS
Bromoform	0.00036	U	0.00084	0.00036	mg/Kg	☼	10/29/23 21:58	1	MZS
Bromomethane	0.00084	U	0.0017	0.00084	mg/Kg	☼	10/29/23 21:58	1	MZS
Carbon disulfide	0.0087		0.00084	0.00022	mg/Kg	☼	10/29/23 21:58	1	MZS
Carbon tetrachloride	0.00033	U	0.00084	0.00033	mg/Kg	☼	10/29/23 21:58	1	MZS
Chlorobenzene	0.00015	U	0.00084	0.00015	mg/Kg	☼	10/29/23 21:58	1	MZS
Chlorobromomethane	0.00024	U	0.00084	0.00024	mg/Kg	☼	10/29/23 21:58	1	MZS
Chlorodibromomethane	0.00016	U	0.00084	0.00016	mg/Kg	☼	10/29/23 21:58	1	MZS
Chloroethane	0.00044	U	0.00084	0.00044	mg/Kg	☼	10/29/23 21:58	1	MZS
Chloroform	0.00082	U	0.00084	0.00082	mg/Kg	☼	10/29/23 21:58	1	MZS
Chloromethane	0.00037	U	0.00084	0.00037	mg/Kg	☼	10/29/23 21:58	1	MZS
cis-1,2-Dichloroethene	0.00030	U	0.00084	0.00030	mg/Kg	☼	10/29/23 21:58	1	MZS
cis-1,3-Dichloropropene	0.00023	U	0.00084	0.00023	mg/Kg	☼	10/29/23 21:58	1	MZS
Cyclohexane	0.0029		0.00084	0.00019	mg/Kg	☼	10/29/23 21:58	1	MZS
Dichlorobromomethane	0.00022	U	0.00084	0.00022	mg/Kg	☼	10/29/23 21:58	1	MZS
Dichlorodifluoromethane	0.00029	U	0.00084	0.00029	mg/Kg	☼	10/29/23 21:58	1	MZS
Ethylbenzene	0.065		0.00084	0.00017	mg/Kg	☼	10/29/23 21:58	1	MZS
Ethylene Dibromide	0.00015	U	0.00084	0.00015	mg/Kg	☼	10/29/23 21:58	1	MZS
Isopropylbenzene	0.011		0.00084	0.00024	mg/Kg	☼	10/29/23 21:58	1	MZS
Methyl acetate	0.0036	U	0.0042	0.0036	mg/Kg	☼	10/29/23 21:58	1	MZS
Methyl tert-butyl ether	0.00043	U	0.00084	0.00043	mg/Kg	☼	10/29/23 21:58	1	MZS
Methylcyclohexane	0.023		0.00084	0.00042	mg/Kg	☼	10/29/23 21:58	1	MZS
Methylene Chloride	0.00097	U	0.0017	0.00097	mg/Kg	☼	10/29/23 21:58	1	MZS
m-Xylene & p-Xylene	0.015		0.00084	0.00015	mg/Kg	☼	10/29/23 21:58	1	MZS
o-Xylene	0.025		0.00084	0.00016	mg/Kg	☼	10/29/23 21:58	1	MZS
Styrene	0.00023	U	0.00084	0.00023	mg/Kg	☼	10/29/23 21:58	1	MZS
Tetrachloroethene	0.00026	U	0.00084	0.00026	mg/Kg	☼	10/29/23 21:58	1	MZS
Toluene	0.00060	J	0.00084	0.00020	mg/Kg	☼	10/29/23 21:58	1	MZS
trans-1,2-Dichloroethene	0.00021	U	0.00084	0.00021	mg/Kg	☼	10/29/23 21:58	1	MZS
trans-1,3-Dichloropropene	0.00022	U	0.00084	0.00022	mg/Kg	☼	10/29/23 21:58	1	MZS
Trichloroethene	0.00027	U	0.00084	0.00027	mg/Kg	☼	10/29/23 21:58	1	MZS
Trichlorofluoromethane	0.00034	U	0.00084	0.00034	mg/Kg	☼	10/29/23 21:58	1	MZS
Vinyl chloride	0.00046	U	0.00084	0.00046	mg/Kg	☼	10/29/23 21:58	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Indane	0.16	J N	mg/Kg	☼	11.17	496-11-7	10/29/23 21:58	1	MZS
Unknown	0.086	J N	mg/Kg	☼	11.51	N/A	10/29/23 21:58	1	MZS
Benzene, 1-methyl-2-(1-methylethyl)-	0.10	J N	mg/Kg	☼	11.57	527-84-4	10/29/23 21:58	1	MZS
Unknown	0.087	J N	mg/Kg	☼	12.23	N/A	10/29/23 21:58	1	MZS
1,4-Dihydronaphthalene	0.14	J N	mg/Kg	☼	12.27	612-17-9	10/29/23 21:58	1	MZS
Benzene, 1-butynyl-	0.20	J N	mg/Kg	☼	12.35	622-76-4	10/29/23 21:58	1	MZS
Naphthalene	1.6	J N	mg/Kg	☼	12.69	91-20-3	10/29/23 21:58	1	MZS
Naphthalene, 2-methyl-	0.53	J N	mg/Kg	☼	13.46	91-57-6	10/29/23 21:58	1	MZS
Naphthalene, 1-methyl-	0.53	J N	mg/Kg	☼	13.59	90-12-0	10/29/23 21:58	1	MZS
Naphthalene, 1-ethyl-	0.096	J N	mg/Kg	☼	14.13	1127-76-0	10/29/23 21:58	1	MZS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(17.0-17.5)

Lab Sample ID: 460-291332-6

Date Collected: 10/26/23 13:06

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.1

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	93		72 - 138	10/29/23 21:58	1	MZS
4-Bromofluorobenzene	103		63 - 139	10/29/23 21:58	1	MZS
Dibromofluoromethane (Surr)	99		54 - 150	10/29/23 21:58	1	MZS
Toluene-d8 (Surr)	104		71 - 126	10/29/23 21:58	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	2.2		0.34	0.012	mg/Kg	☆	10/30/23 12:08	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U	0.34	0.020	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.069	0.037	mg/Kg	☆	10/30/23 12:08	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.069	0.025	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Methylnaphthalene	7.4		0.34	0.0095	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☆	10/30/23 12:08	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☆	10/30/23 12:08	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	☆	10/30/23 12:08	1	MDJ
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	☆	10/30/23 12:08	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☆	10/30/23 12:08	1	MDJ
4-Nitrophenol	0.055	U	0.69	0.055	mg/Kg	☆	10/30/23 12:08	1	MDJ
Acenaphthylene	1.5		0.34	0.0097	mg/Kg	☆	10/30/23 12:08	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☆	10/30/23 12:08	1	MDJ
Anthracene	7.5		0.34	0.010	mg/Kg	☆	10/30/23 12:08	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzaldehyde	0.056	U	0.34	0.056	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzo[a]anthracene	5.0		0.034	0.026	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzo[a]pyrene	4.3		0.034	0.0091	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzo[b]fluoranthene	2.8		0.034	0.0088	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzo[g,h,i]perylene	1.5		0.34	0.010	mg/Kg	☆	10/30/23 12:08	1	MDJ
Benzo[k]fluoranthene	1.2		0.034	0.0067	mg/Kg	☆	10/30/23 12:08	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☆	10/30/23 12:08	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☆	10/30/23 12:08	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☆	10/30/23 12:08	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☆	10/30/23 12:08	1	MDJ
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☆	10/30/23 12:08	1	MDJ
Carbazole	0.40		0.34	0.013	mg/Kg	☆	10/30/23 12:08	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(17.0-17.5)

Lab Sample ID: 460-291332-6

Date Collected: 10/26/23 13:06

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chrysene	4.4		0.34	0.014	mg/Kg	☼	10/30/23 12:08	1	MDJ
Dibenz(a,h)anthracene	0.33		0.034	0.015	mg/Kg	☼	10/30/23 12:08	1	MDJ
Dibenzofuran	0.85		0.34	0.011	mg/Kg	☼	10/30/23 12:08	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	10/30/23 12:08	1	MDJ
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	☼	10/30/23 12:08	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	10/30/23 12:08	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	10/30/23 12:08	1	MDJ
Fluorene	7.9		0.34	0.010	mg/Kg	☼	10/30/23 12:08	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	10/30/23 12:08	1	MDJ
Hexachlorobutadiene	0.0072	U	0.069	0.0072	mg/Kg	☼	10/30/23 12:08	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.34	0.030	mg/Kg	☼	10/30/23 12:08	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	10/30/23 12:08	1	MDJ
Indeno[1,2,3-cd]pyrene	1.4		0.034	0.013	mg/Kg	☼	10/30/23 12:08	1	MDJ
Isophorone	0.098	U	0.14	0.098	mg/Kg	☼	10/30/23 12:08	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	10/30/23 12:08	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	10/30/23 12:08	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	10/30/23 12:08	1	MDJ
Pentachlorophenol	0.070	U	0.27	0.070	mg/Kg	☼	10/30/23 12:08	1	MDJ
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	10/30/23 12:08	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	10	J N	mg/Kg	☼	4.96	90-12-0	10/30/23 12:08	1	MDJ
Naphthalene, 2-ethyl-	3.7	J N	mg/Kg	☼	5.31	939-27-5	10/30/23 12:08	1	MDJ
Naphthalene, 2,6-dimethyl-	2.9	J N	mg/Kg	☼	5.37	581-42-0	10/30/23 12:08	1	MDJ
Naphthalene, 2,3-dimethyl-	3.9	J N	mg/Kg	☼	5.42	581-40-8	10/30/23 12:08	1	MDJ
Naphthalene, 1,4-dimethyl-	1.7	J N	mg/Kg	☼	5.44	571-58-4	10/30/23 12:08	1	MDJ
Unknown	2.4	J N	mg/Kg	☼	5.51	N/A	10/30/23 12:08	1	MDJ
1,1'-Biphenyl, 3-methyl-	2.1	J N	mg/Kg	☼	5.91	643-93-6	10/30/23 12:08	1	MDJ
Unknown	1.8	J N	mg/Kg	☼	6.02	N/A	10/30/23 12:08	1	MDJ
Unknown	2.2	J N	mg/Kg	☼	6.07	N/A	10/30/23 12:08	1	MDJ
Unknown	1.9	J N	mg/Kg	☼	6.17	N/A	10/30/23 12:08	1	MDJ
Unknown	1.9	J N	mg/Kg	☼	6.23	N/A	10/30/23 12:08	1	MDJ
Unknown	2.0	J N	mg/Kg	☼	6.26	N/A	10/30/23 12:08	1	MDJ
9H-Fluorene, 2-methyl-	2.4	J N	mg/Kg	☼	6.50	1430-97-3	10/30/23 12:08	1	MDJ
9H-Fluorene, 1-methyl-	1.4	J N	mg/Kg	☼	6.57	1730-37-6	10/30/23 12:08	1	MDJ
Dibenzothiophene	2.2	J N	mg/Kg	☼	6.71	132-65-0	10/30/23 12:08	1	MDJ
Anthracene, 2-methyl-	4.4	J N	mg/Kg	☼	7.17	613-12-7	10/30/23 12:08	1	MDJ
Phenanthrene, 2-methyl-	4.9	J N	mg/Kg	☼	7.20	2531-84-2	10/30/23 12:08	1	MDJ
Unknown	2.1	J N	mg/Kg	☼	7.23	N/A	10/30/23 12:08	1	MDJ
Benzaldehyde,	2.6	J N	mg/Kg	☼	7.26	90-60-8	10/30/23 12:08	1	MDJ
3,5-dichloro-2-hydroxy-									
Perylene	1.9	J N	mg/Kg	☼	10.13	198-55-0	10/30/23 12:08	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	87		24 - 137	10/30/23 12:08	1	MDJ
2-Fluorobiphenyl	89		48 - 120	10/30/23 12:08	1	MDJ
2-Fluorophenol (Surr)	92		31 - 120	10/30/23 12:08	1	MDJ
Nitrobenzene-d5 (Surr)	96		38 - 120	10/30/23 12:08	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	10/30/23 12:08	1	MDJ
Terphenyl-d14 (Surr)	95		25 - 126	10/30/23 12:08	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: SB-104-A(17.0-17.5)

Lab Sample ID: 460-291332-6

Date Collected: 10/26/23 13:06

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	11	D	1.7	0.049	mg/Kg	✱	10/30/23 18:22	5	MME
Fluoranthene	6.1	D	1.7	0.059	mg/Kg	✱	10/30/23 18:22	5	MME
Naphthalene	6.8	D	1.7	0.029	mg/Kg	✱	10/30/23 18:22	5	MME
Phenanthrene	20	D	1.7	0.069	mg/Kg	✱	10/30/23 18:22	5	MME
Pyrene	9.7	D	1.7	0.042	mg/Kg	✱	10/30/23 18:22	5	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	10/30/23 18:22	5	MME

Client Sample ID: DUP_20231026

Lab Sample ID: 460-291332-7

Date Collected: 10/26/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 64.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00027	U	0.0012	0.00027	mg/Kg	✱	11/01/23 05:54	1	MZS
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	✱	11/01/23 05:54	1	MZS
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0012	0.00035	mg/Kg	✱	11/01/23 05:54	1	MZS
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	✱	11/01/23 05:54	1	MZS
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	✱	11/01/23 05:54	1	MZS
1,1-Dichloroethene	0.00026	U	0.0012	0.00026	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2-Dibromo-3-Chloropropane	0.00054	U	0.0012	0.00054	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2-Dichloroethane	0.00035	U	0.0012	0.00035	mg/Kg	✱	11/01/23 05:54	1	MZS
1,2-Dichloropropane	0.00050	U	0.0012	0.00050	mg/Kg	✱	11/01/23 05:54	1	MZS
1,3-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	✱	11/01/23 05:54	1	MZS
1,4-Dichlorobenzene	0.00026	U	0.0012	0.00026	mg/Kg	✱	11/01/23 05:54	1	MZS
1,4-Dioxane	0.011	U	0.12	0.011	mg/Kg	✱	11/01/23 05:54	1	MZS
2-Butanone (MEK)	0.0073	U	0.0059	0.00043	mg/Kg	✱	11/01/23 05:54	1	MZS
2-Hexanone	0.0020	U	0.0059	0.0020	mg/Kg	✱	11/01/23 05:54	1	MZS
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0059	0.0018	mg/Kg	✱	11/01/23 05:54	1	MZS
Acetone	0.39	U	0.0071	0.0067	mg/Kg	✱	11/01/23 05:54	1	MZS
Benzene	0.00068	J	0.0012	0.00030	mg/Kg	✱	11/01/23 05:54	1	MZS
Bromoform	0.00050	U	0.0012	0.00050	mg/Kg	✱	11/01/23 05:54	1	MZS
Bromomethane	0.0012	U	0.0024	0.0012	mg/Kg	✱	11/01/23 05:54	1	MZS
Carbon disulfide	0.0058	U	0.0012	0.00031	mg/Kg	✱	11/01/23 05:54	1	MZS
Carbon tetrachloride	0.00046	U	0.0012	0.00046	mg/Kg	✱	11/01/23 05:54	1	MZS
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	✱	11/01/23 05:54	1	MZS
Chlorobromomethane	0.00033	U	0.0012	0.00033	mg/Kg	✱	11/01/23 05:54	1	MZS
Chlorodibromomethane	0.00023	U	0.0012	0.00023	mg/Kg	✱	11/01/23 05:54	1	MZS
Chloroethane	0.00061	U	0.0012	0.00061	mg/Kg	✱	11/01/23 05:54	1	MZS
Chloroform	0.0011	U	0.0012	0.0011	mg/Kg	✱	11/01/23 05:54	1	MZS
Chloromethane	0.00051	U	0.0012	0.00051	mg/Kg	✱	11/01/23 05:54	1	MZS
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	✱	11/01/23 05:54	1	MZS
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	✱	11/01/23 05:54	1	MZS
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	✱	11/01/23 05:54	1	MZS
Dichlorobromomethane	0.00030	U	0.0012	0.00030	mg/Kg	✱	11/01/23 05:54	1	MZS
Dichlorodifluoromethane	0.00040	U	0.0012	0.00040	mg/Kg	✱	11/01/23 05:54	1	MZS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: DUP_20231026

Lab Sample ID: 460-291332-7

Date Collected: 10/26/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 64.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Ethylbenzene	0.0025		0.0012	0.00023	mg/Kg	✱	11/01/23 05:54	1	MZS
Ethylene Dibromide	0.00021	U	0.0012	0.00021	mg/Kg	✱	11/01/23 05:54	1	MZS
Isopropylbenzene	0.0010	J	0.0012	0.00034	mg/Kg	✱	11/01/23 05:54	1	MZS
Methyl acetate	0.0051	U	0.0059	0.0051	mg/Kg	✱	11/01/23 05:54	1	MZS
Methyl tert-butyl ether	0.00060	U	0.0012	0.00060	mg/Kg	✱	11/01/23 05:54	1	MZS
Methylcyclohexane	0.00059	U	0.0012	0.00059	mg/Kg	✱	11/01/23 05:54	1	MZS
Methylene Chloride	0.0013	U	0.0024	0.0013	mg/Kg	✱	11/01/23 05:54	1	MZS
m-Xylene & p-Xylene	0.00087	J	0.0012	0.00020	mg/Kg	✱	11/01/23 05:54	1	MZS
o-Xylene	0.0013		0.0012	0.00023	mg/Kg	✱	11/01/23 05:54	1	MZS
Styrene	0.00090	J	0.0012	0.00033	mg/Kg	✱	11/01/23 05:54	1	MZS
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	✱	11/01/23 05:54	1	MZS
Toluene	0.00042	J	0.0012	0.00028	mg/Kg	✱	11/01/23 05:54	1	MZS
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	✱	11/01/23 05:54	1	MZS
trans-1,3-Dichloropropene	0.00031	U	0.0012	0.00031	mg/Kg	✱	11/01/23 05:54	1	MZS
Trichloroethene	0.00038	U	0.0012	0.00038	mg/Kg	✱	11/01/23 05:54	1	MZS
Trichlorofluoromethane	0.00048	U	0.0012	0.00048	mg/Kg	✱	11/01/23 05:54	1	MZS
Vinyl chloride	0.00064	U	0.0012	0.00064	mg/Kg	✱	11/01/23 05:54	1	MZS

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,2,4,5-tetramethyl-	0.086	J N	mg/Kg	✱	12.22	95-93-2	11/01/23 05:54	1	MZS
Unknown	0.10	J N	mg/Kg	✱	12.34	N/A	11/01/23 05:54	1	MZS
Benzene, (3-methyl-2-butenyl)-	0.072	J N	mg/Kg	✱	12.47	4489-84-3	11/01/23 05:54	1	MZS
Naphthalene	0.20	J N	mg/Kg	✱	12.67	91-20-3	11/01/23 05:54	1	MZS
Unknown	0.079	J N	mg/Kg	✱	12.77	N/A	11/01/23 05:54	1	MZS
1H-Indene, 2,3-dimethyl-	0.093	J N	mg/Kg	✱	13.09	4773-82-4	11/01/23 05:54	1	MZS
1H-Indene, 1,3-dimethyl-	0.094	J N	mg/Kg	✱	13.18	2177-48-2	11/01/23 05:54	1	MZS
Unknown	0.067	J N	mg/Kg	✱	13.45	N/A	11/01/23 05:54	1	MZS
Naphthalene, 1-methyl-	0.65	J N	mg/Kg	✱	13.59	90-12-0	11/01/23 05:54	1	MZS
Biphenyl	0.12	J N	mg/Kg	✱	13.98	92-52-4	11/01/23 05:54	1	MZS

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	99		72 - 138	11/01/23 05:54	1	MZS
4-Bromofluorobenzene	103		63 - 139	11/01/23 05:54	1	MZS
Dibromofluoromethane (Surr)	101		54 - 150	11/01/23 05:54	1	MZS
Toluene-d8 (Surr)	102		71 - 126	11/01/23 05:54	1	MZS

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	2.8		0.51	0.018	mg/Kg	✱	10/30/23 12:25	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.016	U	0.51	0.016	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,2'-oxybis[1-chloropropane]	0.031	U	0.51	0.031	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,3,4,6-Tetrachlorophenol	0.035	U	0.51	0.035	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4,5-Trichlorophenol	0.052	U	0.51	0.052	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4,6-Trichlorophenol	0.065	U	0.21	0.065	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4-Dichlorophenol	0.033	U	0.21	0.033	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4-Dimethylphenol	0.061	U	0.51	0.061	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4-Dinitrophenol	0.25	U	0.41	0.25	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,4-Dinitrotoluene	0.055	U	0.10	0.055	mg/Kg	✱	10/30/23 12:25	1	MDJ
2,6-Dinitrotoluene	0.037	U	0.10	0.037	mg/Kg	✱	10/30/23 12:25	1	MDJ
2-Chloronaphthalene	0.024	U	0.51	0.024	mg/Kg	✱	10/30/23 12:25	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: DUP_20231026

Lab Sample ID: 460-291332-7

Date Collected: 10/26/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 64.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Chlorophenol	0.018	U	0.51	0.018	mg/Kg	☼	10/30/23 12:25	1	MDJ
2-Methylnaphthalene	0.014	U	0.51	0.014	mg/Kg	☼	10/30/23 12:25	1	MDJ
2-Methylphenol	0.019	U	0.51	0.019	mg/Kg	☼	10/30/23 12:25	1	MDJ
2-Nitroaniline	0.039	U	0.51	0.039	mg/Kg	☼	10/30/23 12:25	1	MDJ
2-Nitrophenol	0.051	U	0.51	0.051	mg/Kg	☼	10/30/23 12:25	1	MDJ
3,3'-Dichlorobenzidine	0.077	U	0.21	0.077	mg/Kg	☼	10/30/23 12:25	1	MDJ
3-Nitroaniline	0.12	U	0.51	0.12	mg/Kg	☼	10/30/23 12:25	1	MDJ
4,6-Dinitro-2-methylphenol	0.21	U	0.41	0.21	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Bromophenyl phenyl ether	0.020	U	0.51	0.020	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Chloro-3-methylphenol	0.029	U	0.51	0.029	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Chloroaniline	0.090	U	0.51	0.090	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Chlorophenyl phenyl ether	0.018	U	0.51	0.018	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Methylphenol	0.032	U	0.51	0.032	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Nitroaniline	0.059	U	0.51	0.059	mg/Kg	☼	10/30/23 12:25	1	MDJ
4-Nitrophenol	0.083	U	1.0	0.083	mg/Kg	☼	10/30/23 12:25	1	MDJ
Acenaphthylene	11		0.51	0.015	mg/Kg	☼	10/30/23 12:25	1	MDJ
Acetophenone	0.025	U	0.51	0.025	mg/Kg	☼	10/30/23 12:25	1	MDJ
Atrazine	0.030	U ⁺	0.21	0.030	mg/Kg	☼	10/30/23 12:25	1	MDJ
Benzaldehyde	0.084	U	0.51	0.084	mg/Kg	☼	10/30/23 12:25	1	MDJ
Benzo[g,h,i]perylene	5.4	J	0.51	0.015	mg/Kg	☼	10/30/23 12:25	1	MDJ
Benzo[k]fluoranthene	4.5		0.051	0.010	mg/Kg	☼	10/30/23 12:25	1	MDJ
Bis(2-chloroethoxy)methane	0.040	U	0.51	0.040	mg/Kg	☼	10/30/23 12:25	1	MDJ
Bis(2-chloroethyl)ether	0.018	U	0.051	0.018	mg/Kg	☼	10/30/23 12:25	1	MDJ
Bis(2-ethylhexyl) phthalate	0.027	U	0.51	0.027	mg/Kg	☼	10/30/23 12:25	1	MDJ
Butyl benzyl phthalate	0.024	U	0.51	0.024	mg/Kg	☼	10/30/23 12:25	1	MDJ
Caprolactam	0.079	U	0.51	0.079	mg/Kg	☼	10/30/23 12:25	1	MDJ
Carbazole	0.23	J	0.51	0.019	mg/Kg	☼	10/30/23 12:25	1	MDJ
Dibenz(a,h)anthracene	1.5	J	0.051	0.022	mg/Kg	☼	10/30/23 12:25	1	MDJ
Dibenzofuran	9.3		0.51	0.017	mg/Kg	☼	10/30/23 12:25	1	MDJ
Diethyl phthalate	0.016	U	0.51	0.016	mg/Kg	☼	10/30/23 12:25	1	MDJ
Dimethyl phthalate	0.12	U	0.51	0.12	mg/Kg	☼	10/30/23 12:25	1	MDJ
Di-n-butyl phthalate	0.056	J	0.51	0.019	mg/Kg	☼	10/30/23 12:25	1	MDJ
Di-n-octyl phthalate	0.027	U	0.51	0.027	mg/Kg	☼	10/30/23 12:25	1	MDJ
Hexachlorobenzene	0.024	U	0.051	0.024	mg/Kg	☼	10/30/23 12:25	1	MDJ
Hexachlorobutadiene	0.011	U	0.10	0.011	mg/Kg	☼	10/30/23 12:25	1	MDJ
Hexachlorocyclopentadiene	R 0.045	U *	0.51	0.045	mg/Kg	☼	10/30/23 12:25	1	MDJ
Hexachloroethane	0.018	U	0.051	0.018	mg/Kg	☼	10/30/23 12:25	1	MDJ
Indeno[1,2,3-cd]pyrene	5.9	J	0.051	0.020	mg/Kg	☼	10/30/23 12:25	1	MDJ
Isophorone	0.15	U	0.21	0.15	mg/Kg	☼	10/30/23 12:25	1	MDJ
Naphthalene	0.47	J	0.51	0.0088	mg/Kg	☼	10/30/23 12:25	1	MDJ
Nitrobenzene	0.028	U	0.051	0.028	mg/Kg	☼	10/30/23 12:25	1	MDJ
N-Nitrosodi-n-propylamine	0.037	U	0.051	0.037	mg/Kg	☼	10/30/23 12:25	1	MDJ
N-Nitrosodiphenylamine	0.042	U	0.51	0.042	mg/Kg	☼	10/30/23 12:25	1	MDJ
Pentachlorophenol	0.10	U	0.41	0.10	mg/Kg	☼	10/30/23 12:25	1	MDJ
Phenol	0.019	U	0.51	0.019	mg/Kg	☼	10/30/23 12:25	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Naphthalene, 1-methyl-	10	J N	mg/Kg	☼	4.96	90-12-0	10/30/23 12:25	1	MDJ
Naphthalene, 1,5-dimethyl-	9.1	J N	mg/Kg	☼	5.43	571-61-9	10/30/23 12:25	1	MDJ
1H-Phenalene	8.3	J N	mg/Kg	☼	6.07	203-80-5	10/30/23 12:25	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291332-1

Client Sample ID: DUP_20231026

Lab Sample ID: 460-291332-7

Date Collected: 10/26/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 64.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
9H-Fluorene, 2-methyl-	10	J N	mg/Kg	⊛	6.51	1430-97-3	10/30/23 12:25	1	MDJ
Unknown	17	J N	mg/Kg	⊛	7.19	N/A	10/30/23 12:25	1	MDJ
Phenanthrene, 2-methyl-	18	J N	mg/Kg	⊛	7.21	2531-84-2	10/30/23 12:25	1	MDJ
Unknown	9.1	J N	mg/Kg	⊛	7.24	N/A	10/30/23 12:25	1	MDJ
Anthracene, 1-methyl-	11	J N	mg/Kg	⊛	7.29	610-48-0	10/30/23 12:25	1	MDJ
Naphthalene, 2-phenyl-	11	J N	mg/Kg	⊛	7.41	612-94-2	10/30/23 12:25	1	MDJ
Phenanthrene, 2,5-dimethyl-	12	J N	mg/Kg	⊛	7.60	3674-66-6	10/30/23 12:25	1	MDJ
Phenanthrene, 3,6-dimethyl-	14	J N	mg/Kg	⊛	7.63	1576-67-6	10/30/23 12:25	1	MDJ
Unknown	12	J N	mg/Kg	⊛	7.79	N/A	10/30/23 12:25	1	MDJ
Fluoranthene, 2-methyl-	9.4	J N	mg/Kg	⊛	8.12	33543-31-6	10/30/23 12:25	1	MDJ
Unknown	14	J N	mg/Kg	⊛	8.14	N/A	10/30/23 12:25	1	MDJ
11H-Benzo[b]fluorene	13	J N	mg/Kg	⊛	8.19	243-17-4	10/30/23 12:25	1	MDJ
Unknown	9.7	J N	mg/Kg	⊛	8.21	N/A	10/30/23 12:25	1	MDJ
Unknown	8.3	J N	mg/Kg	⊛	8.29	N/A	10/30/23 12:25	1	MDJ
Pyrene, 1-methyl-	10	J N	mg/Kg	⊛	8.31	2381-21-7	10/30/23 12:25	1	MDJ
Chrysene, 6-methyl-	9.1	J N	mg/Kg	⊛	9.23	1705-85-7	10/30/23 12:25	1	MDJ
Perylene	8.3	J N	mg/Kg	⊛	10.16	198-55-0	10/30/23 12:25	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	100		24 - 137	10/30/23 12:25	1	MDJ
2-Fluorobiphenyl	97		48 - 120	10/30/23 12:25	1	MDJ
2-Fluorophenol (Surr)	94		31 - 120	10/30/23 12:25	1	MDJ
Nitrobenzene-d5 (Surr)	99		38 - 120	10/30/23 12:25	1	MDJ
Phenol-d5 (Surr)	99		39 - 120	10/30/23 12:25	1	MDJ
Terphenyl-d14 (Surr)	98		25 - 126	10/30/23 12:25	1	MDJ

Method: 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	20	D	5.1	0.15	mg/Kg	⊛	10/30/23 18:40	10	MME
Anthracene	19	D	5.1	0.16	mg/Kg	⊛	10/30/23 18:40	10	MME
Benzo[a]anthracene	17	D	0.51	0.38	mg/Kg	⊛	10/30/23 18:40	10	MME
Benzo[a]pyrene	13	D	0.51	0.14	mg/Kg	⊛	10/30/23 18:40	10	MME
Benzo[b]fluoranthene	10	D	0.51	0.13	mg/Kg	⊛	10/30/23 18:40	10	MME
Chrysene	15	D	5.1	0.21	mg/Kg	⊛	10/30/23 18:40	10	MME
Fluoranthene	30	D	5.1	0.18	mg/Kg	⊛	10/30/23 18:40	10	MME
Fluorene	22	D	5.1	0.15	mg/Kg	⊛	10/30/23 18:40	10	MME
Phenanthrene	82	D	5.1	0.21	mg/Kg	⊛	10/30/23 18:40	10	MME
Pyrene	44	D	5.1	0.13	mg/Kg	⊛	10/30/23 18:40	10	MME

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	⊛		N/A	10/30/23 18:40	10	MME

Con Edison Former Ossining Works

Data Usability Summary Report

Ossining, New York

Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Metals and Miscellaneous Analyses

SDG # 460-291365-1

Analyses Performed By:

Eurofins

Edison, New Jersey

Report #52271R

Review Level: Tier III

Project: 30197894.03

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDG) # 460-291365-1 for samples collected in association with the Consolidated Edison, Ossining, New York Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SS-5 (12.0-18.0)-20231027	460-291365-1	Soil	10/27/2023		X	X		X	X
SS-6 (0.0-2.0)-20231027	460-291365-2	Soil	10/27/2023		X	X		X	X
SS-5 (2.0-12.0)-20231027	460-291365-3	Soil	10/27/2023		X	X		X	X
SS-6 (2.0-12.0)-20231027	460-291365-4	Soil	10/27/2023		X	X		X	X
SS-1 (0.0-2.0)-20231027	460-291365-5	Soil	10/27/2023		X	X		X	X
SS-8 (0.0-2.0)-20231027	460-291365-6	Soil	10/27/2023		X	X		X	X
SS-8 (12.0-18.0)-20231027	460-291365-7	Soil	10/27/2023		X	X		X	X
SS-7 (0.0-2.0)-20231027	460-291365-8	Soil	10/27/2023		X	X		X	X
SS-2 (2.0-12.0)-20231027	460-291365-9	Soil	10/27/2023		X	X		X	X
SS-8 (2.0-12.0)-20231027	460-291365-10	Soil	10/27/2023		X	X		X	X
SS-1 (2.0-12.0)-20231027	460-291365-11	Soil	10/27/2023		X	X		X	X
SS-7 (2.0-12.0)-20231027	460-291365-12	Soil	10/27/2023		X	X		X	X

Data Usability Summary Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
SS-3 (0.0-2.0)-20231027	460-291365-13	Soil	10/27/2023		X	X		X	X
SS-3 (2.0-12.0)-20231027	460-291365-14	Soil	10/27/2023		X	X		X	X
SS-4 (0.0-2.0)-20231027	460-291365-15	Soil	10/27/2023		X	X		X	X
SS-3 (12.0-24.0)-20231027	460-291365-16	Soil	10/27/2023		X	X		X	X
SS-4 (2.0-12.0)-20231027	460-291365-17	Soil	10/27/2023		X	X		X	X
DUP-20231027-20231027	460-291365-18	Soil	10/27/2023	SS-3 (12.0-24.0)-20231027	X	X		X	X
TRIP BLANK-20231027	460-291365-19	Water	10/27/2023		X				
SS-5 (0.0-2.0)-20231027	460-291365-20	Soil	10/27/2023		X	X		X	X
SS-2 (0.0-2.0)-20231027	460-291365-21	Soil	10/27/2023		X	X		X	X

Note:

1. Miscellaneous analysis includes Total Cyanide.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8270E. Data were reviewed in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), and applicable Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

Concentration (C) Qualifiers

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

Quantitation (Q) Qualifiers

- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.

Validation Qualifiers

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- UB Compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (B). No other qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial and continuing calibration verification (ICV/CCV) standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SS-5 (12.0-18.0)-20231027 SS-6 (0.0-2.0)-20231027 SS-5 (2.0-12.0)-20231027 SS-6 (2.0-12.0)-20231027	ICV %D	1,1-Dichloroethene	-22.2%
		Carbon disulfide	-35.7%
		Cyclohexane	-27.6%
		Methylcyclohexane	-21.8%
	CCV %D	Methyl acetate	-26.5%
SS-1 (0.0-2.0)-20231027 SS-8 (0.0-2.0)-20231027 SS-8 (12.0-18.0)-20231027 SS-7 (0.0-2.0)-20231027 SS-2 (2.0-12.0)-20231027 SS-8 (2.0-12.0)-20231027 SS-1 (2.0-12.0)-20231027 SS-7 (2.0-12.0)-20231027 SS-3 (0.0-2.0)-20231027 SS-3 (2.0-12.0)-20231027 SS-4 (0.0-2.0)-20231027 SS-3 (12.0-24.0)-20231027 SS-4 (2.0-12.0)-20231027 DUP-20231027-20231027	ICV %D	Acetone	-21.9%
		Carbon disulfide	-22.6%

Data Usability Summary Report

Sample Locations	Initial/Continuing	Compound	Criteria
SS-5 (0.0-2.0)-20231027 SS-2 (0.0-2.0)-20231027			
SS-1 (0.0-2.0)-20231027 SS-8 (0.0-2.0)-20231027 SS-8 (12.0-18.0)-20231027 SS-7 (0.0-2.0)-20231027 SS-2 (2.0-12.0)-20231027 SS-8 (2.0-12.0)-20231027 SS-1 (2.0-12.0)-20231027 SS-7 (2.0-12.0)-20231027 SS-3 (0.0-2.0)-20231027 SS-4 (2.0-12.0)-20231027	CCV %D	1,1,2-Trichloroethane	-21.2%
SS-3 (2.0-12.0)-20231027 SS-4 (0.0-2.0)-20231027 SS-3 (12.0-24.0)-20231027 DUP-20231027-20231027 SS-5 (0.0-2.0)-20231027 SS-2 (0.0-2.0)-20231027	CCV %D	Methyl acetate	+48.2%
		1,4-Dioxane	+28.3%
Trip Blank	ICV %D	Acetone	-38.8%
		Carbon disulfide	-40.4%
	CCV %D	Chloromethane	-30.1%
		Vinyl chloride	-20.2%
		Acetone	-23.9%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
ICV/CCV	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SS-4 (2.0-12.0)	1,1,2-Trichloroethane	<LL but>10%	<LL but>10%
	1,2,3-Trichlorobenzene	<LL but>10%	<LL but>10%
	1,2,4-Trichlorobenzene	<LL but>10%	<LL but>10%
	1,2-Dichlorobenzene	<LL but>10%	<LL but>10%
	1,3-Dichlorobenzene	<LL but>10%	<LL but>10%
	1,4-Dichlorobenzene	<LL but>10%	<LL but>10%
	Carbon disulfide	<LL but>10%	<LL but>10%
	Chlorobenzene	<LL but>10%	<LL but>10%
	cis-1,3-Dichloropropene	<LL but>10%	<LL but>10%
	Cyclohexane	<LL but>10%	<LL but>10%
	Ethylbenzene	<LL but>10%	<LL but>10%
	Ethylene Dibromide	<LL but>10%	<LL but>10%
	Isopropylbenzene	<LL but>10%	<LL but>10%
	Methylcyclohexane	<LL but>10%	<LL but>10%
	m-Xylene & p-Xylene	<LL but>10%	<LL but>10%
	o-Xylene	<LL but>10%	<LL but>10%
	Styrene	<LL but>10%	<LL but>10%
	Tetrachloroethene	<LL but>10%	<LL but>10%
	Toluene	<LL but>10%	<LL but>10%

Data Usability Summary Report

Sample Locations	Compound	MS Recovery	MSD Recovery
	trans-1,3-Dichloropropene	<LL but>10%	<LL but>10%
	Trichloroethene	<LL but>10%	<LL but>10%
	1,1,2,2-Tetrachloroethane	AC	<LL but>10%
	1,2-Dibromo-3-Chloropropane	AC	<LL but>10%
	Methyl acetate	AC	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
SS-4 (2.0-12.0)	Chloromethane

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SS-3 (2.0-12.0)-20231027 SS-4 (0.0-2.0)-20231027 SS-3 (12.0-24.0)-20231027 DUP-20231027-20231027 SS-5 (0.0-2.0)-20231027 SS-2 (0.0-2.0)-20231027	Methyl acetate	>UL	>UL
Trip Blank	Trichlorofluoromethane	AC	>UL

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for soil matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SS-3 (12.0-24.0)-20231027/ DUP-20231027-20231027	2-Butanone (MEK)	0.0049 J	0.0049 J	AC
	Acetone	0.023	0.019	19.0 %
	Toluene	0.00059 J	0.0004 J	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Tentatively identified compounds were qualified as JN if detected.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
C. Trip blanks		X	X			
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		

Data Usability Summary Report

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
 %R Percent recovery
 RPD Relative percent difference
 %D Percent difference

Semivolatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the initial calibration/continuing calibration verification (ICV/CCV) standards must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SS-5 (12.0-18.0)-20231027 SS-6 (0.0-2.0)-20231027 SS-5 (2.0-12.0)-20231027 SS-6 (2.0-12.0)-20231027 SS-1 (0.0-2.0)-20231027	ICV %D	Benzaldehyde	-58.4%
SS-8 (0.0-2.0)-20231027 SS-8 (12.0-18.0)-20231027 SS-7 (0.0-2.0)-20231027 SS-2 (2.0-12.0)-20231027 SS-8 (2.0-12.0)-20231027 SS-1 (2.0-12.0)-20231027 SS-7 (2.0-12.0)-20231027 SS-3 (0.0-2.0)-20231027 SS-3 (2.0-12.0)-20231027 SS-4 (0.0-2.0)-20231027 SS-3 (12.0-24.0)-20231027 SS-4 (2.0-12.0)-20231027 DUP-20231027-20231027 SS-5 (0.0-2.0)-20231027 SS-2 (0.0-2.0)-20231027	CCV %D	Benzaldehyde 2,2'-oxybis[1-chloropropane] Pentachlorophenol	-41.3% +24.6% -22.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
SS-5 (12.0-18.0)	4,6-Dinitro-2-methylphenol	<LL but >10%	<LL but >10%
	Benzo[g,h,i]perylene	<LL but >10%	AC
	Hexachlorocyclopentadiene	<10%	<10%
	Atrazine	AC	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

Control Limit	Sample Result	Qualification
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
SS-5 (12.0-18.0)-20231027	Hexachlorocyclopentadiene	<10%	<10%
SS-6 (0.0-2.0)-20231027			
SS-5 (2.0-12.0)-20231027			
SS-6 (2.0-12.0)-20231027			
SS-1 (0.0-2.0)-20231027			
SS-8 (0.0-2.0)-20231027			
SS-8 (12.0-18.0)-20231027			
SS-7 (0.0-2.0)-20231027			
SS-2 (2.0-12.0)-20231027			
SS-8 (2.0-12.0)-20231027			
SS-1 (2.0-12.0)-20231027			
SS-7 (2.0-12.0)-20231027			
SS-3 (0.0-2.0)-20231027			
SS-3 (2.0-12.0)-20231027			
SS-4 (0.0-2.0)-20231027			
SS-3 (12.0-24.0)-20231027			
SS-4 (2.0-12.0)-20231027			
DUP-20231027-20231027			
SS-5 (0.0-2.0)-20231027			
SS-2 (0.0-2.0)-20231027			

AC = acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water and three times the RL is applied for soil.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SS-3 (12.0-24.0)-20231027/ DUP-20231027-20231027	2-Methylnaphthalene	0.011 J	0.012 J	AC
	Acenaphthylene	0.092 J	0.12 J	AC
	Anthracene	0.033 J	0.056 J	AC
	Benz(a)anthracene	0.1	0.18	AC
	Benzo(a)pyrene	0.16	0.23	AC
	Benzo(b)fluoranthene	0.24	0.35	37.2 %
	Benzo(g,h,i)perylene	0.11 J	0.15 J	AC
	Benzo(k)fluoranthene	0.1	0.13	AC
	Carbazole	0.33 U	0.014 J	AC
	Chrysene	0.13 J	0.23 J	AC
	Dibenz(a,h)anthracene	0.034	0.046	AC

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Fluoranthene	0.13 J	0.25 J	AC
	Fluorene	0.012 J	0.017 J	AC
	Indeno(1,2,3-cd)pyrene	0.11	0.15	AC
	Naphthalene	0.017 J	0.023 J	AC
	Phenanthrene	0.05 J	0.12 J	AC
	Pyrene	0.19 J	0.37	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

9. Compound Identification

Tentatively identified compounds (TICs) were qualified as JN if detected. TICs identified by the laboratory as “Aldol condensation product” are laboratory artifacts and were qualified as rejected (R).

All identified compounds met the specified criteria.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks	X				X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)		X	X			
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate(MSD)		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		

Data Usability Summary Report

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	
I. Transcription/calculation errors present		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6020B, 7471B, and 9012B. Data were reviewed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (November 2020); *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6020B	Soil	180 days from collection to analysis	Cool to <6 °C.
SW-846 7471B	Soil	28 days from collection to analysis	Cool to <6 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

3.2 Lower Limit of Quantitation Check Standard

The lower limit of quantitation check (LLQC) check standard serves to verify the linearity of calibration of the analysis at the reporting limit. The LLQC recoveries must be within 70 to 130%, and 50 to 150% for antimony (Sb), lead (Pb), and thallium (Tl), cobalt (Co), manganese (Mn), and zinc (Zn). The LLQC standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe),

magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the LLQC standard analysis are presented below in the LLQC standards evaluation table (if applicable).

All LLQC standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery (%)	MSD Recovery (%)
SS-4 (2.0-12.0)	Antimony	44	47
	Chromium	1266	38
	Cobalt	142	80
	Copper	14	-20
	Lead	180	110
	Nickel	632	96
	Vanadium	47	9
	Mercury	135	137

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ

Data Usability Summary Report

Control limit	Sample Result	Qualification
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

A post spike (PS) was performed as required when MS and/or MSD recoveries are outside control limits. The post spike results were evaluated as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery	PS Recovery
SS-4 (2.0-12.0)	Copper	14%	-20%	95%
	Vanadium	47%	9%	80%

The sample results will be qualified as presented in the following table. The qualifications are applied to all sample results associated with this SDG.

Control limit	Post Spike	Sample Result	Qualification
MS/MSD percent recovery <30%	PS percent recovery >75%	Non-detect	UJ
		Detect	J
	PS percent recovery <75%	Non-detect	R
		Detect	J

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

The MS/MSD was performed in addition to the laboratory duplicate analysis. Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit are presented in the following table.

Sample Location	Analytes	MS/MSD RPD
SS-4 (2.0-12.0)	Chromium	148%
	Nickel	116%

The criteria used to evaluate MS/MSD RPD are presented in the following table. In the case of a

Data Usability Summary Report

MS/MSD RPD deviation, the sample results are qualified. The qualifications are applied to the all sample results associated with this SDG.

Control Limit	Sample Result	Qualification
>35% (soil)	Non-detect	UJ
	Detect	J

All analytes associated with laboratory duplicate RPD were within the control limit, with the exception of the analytes presented in the following table.

Sample Location	Analytes	Lab Duplicate RPD
SS-4 (2.0-12.0)	Chromium	42%
	Copper	49%

The criteria used to evaluate laboratory duplicate RPD are presented in the following table. In the case of a laboratory duplicate RPD deviation, the sample results are qualified. The qualifications are applied to the all sample results associated with this SDG.

Sample Concentration	Control Limit	Sample Result	Qualification
Parent sample and laboratory duplicate sample concentration >5 times RL	Water 20% or Soil 35%	Non-detect	UJ
		Detect	J
Parent sample and/or laboratory duplicate sample result ≤ five times the RL and difference between samples >RL	Water one times RL or Soil two times RL	Non-detect	UJ
		Detect	J

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SS-3 (12.0-24.0)-20231027/ DUP-20231027-20231027	Aluminum	3630	3480	4.2 %
	Antimony	0.73 J	0.41 J	AC
	Arsenic	2.7	2.3	AC
	Barium	44.5	41.8	6.2 %
	Beryllium	0.17 J	0.12 J	AC

Data Usability Summary Report

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Cadmium	0.35 J	0.2 J	AC
	Calcium	25900	14200	58.3 %
	Chromium	58.6	15.7	115.4 %
	Cobalt	4.6	5.2	AC
	Copper	22.7	58.7	88.4 %
	Iron	10900	11800	7.9 %
	Lead	307	100	101.7 %
	Magnesium	14800	7550	64.8 %
	Manganese	187	170	9.5 %
	Nickel	12.6	9.5	28.0 %
	Potassium	1060	1090	2.7 %
	Selenium	0.14 J	0.19 J	AC
	Silver	0.17 J	0.11 J	AC
	Sodium	100	103	2.9 %
	Thallium	0.075 J	0.058 J	AC
	Vanadium	22.1	19.9	10.4 %
	Zinc	90.5	66.2	31.0 %
	Mercury	0.12	0.1	18.1 %

Notes:

AC Acceptable

The analyte(s) Calcium, Chromium, Copper, Lead, and Magnesium associated with samples locations SS-3 (12.0-24.0)-20231027 and DUP-20231027-20231027 exhibited a field duplicate RPD greater than the control limit. The associated sample results from all sample locations in this SDG for the listed analytes were qualified as estimated (J/UJ).

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis performed on sample SS-4 (2.0-12.0) exhibited %D within the control limits.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X	X		
ICP Serial Dilution %D		X		X	
Total vs. Dissolved	X				X
Reporting Limit Verification		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
LLQC Standard Recovery		X		X	
ICP Interference Check		X		X	
ICP-MS Internal Standards		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	

Data Usability Summary Report

METALS; SW-846 6010	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Cyanide by SW-846 9012B	Soil	14 days from collection to analysis	Cool to <6 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike(MS)/Matrix Spike Duplicate(MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed on sample SS-4 (2.0-12.0) exhibited recoveries within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

The laboratory duplicate sample results exhibited RPD within the control limit for sulfate.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SS-3 (12.0-24.0)-20231027/ DUP-20231027-20231027	Cyanide, Total	1.2	1.4	15.3%

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW846 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
460-291365-1	10/27/2023	SW846/USEPA	SS-5 (12.0-18.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R, MS/MSD %R/RPD MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023	SW846/USEPA	SS-6 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023	SW846/USEPA	SS-5 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023	SW846/USEPA	SS-6 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023	SW846/USEPA	SS-1 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023	SW846/USEPA	SS-8 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-8 (12.0-18.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-7 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-2 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-8 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-1 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-7 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-3 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-3 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-4 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-3 (12.0-24.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-4 (2.0-12.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D, MS/MSD %R/RPD SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		DUP-20231027-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		TRIP BLANK-20231027	Soil	no	--	--	--	--	VOC – ICV/CCV %D
	10/27/2023		SS-5 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD
	10/27/2023		SS-2 (0.0-2.0)-20231027	Soil	no	no	--	no	yes	VOC – ICV/CCV %D

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix		Compliance ¹				Noncompliance
					VOC	SVOC	TPH	MET	MISC	
										SVOC – ICV/CCV %D, LCS/LCSD %R MET – MS/MSD%R/RPD, FIELD DUP RPD

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:



DATE: January 8, 2024

PEER REVIEW: Joseph C. Houser

DATE: January 11, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

609862



Environment Testing
America

TAL-8210

Address:

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Project Manager: A. (M) 302.5

Tel/Email: A. (M) 302.5

Site Contact: +0A R01V.

Lab Contact:

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☐ 2 weeks

☐ 1 week

☐ 2 days

☐ 1 day

Project Name: Con Edison OSS.ny works

Site: Con Edison OSS.ny QUT-1

PO#

Client Contact

Company Name: Arcadis

Address: 201 W Fayette St

City/State/Zip: Syracuse NY 13202

Phone: 315-247-3244

Fax:

Project Name: Con Edison OSS.ny works

Site: Con Edison OSS.ny QUT-1

PO#

Project Manager: A. (M) 302.5

Tel/Email: A. (M) 302.5

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COC No

1 of 3 COCs

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☐ 1 day

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Lab Contact:

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Site Contact: +0A R01V.

Lab Contact:

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Lab Contact:

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Project Name: Con Edison OSS.ny works

Site: Con Edison OSS.ny QUT-1

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Date

Site Contact: +0A R01V.

Lab Contact:

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

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☐ 1 week

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (12.0-18.0)

Lab Sample ID: 460-291365-1

Date Collected: 10/27/23 09:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☆	11/04/23 04:23	1	AAT
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☆	11/04/23 04:23	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☆	11/04/23 04:23	1	AAT
1,1,2-Trichloroethane	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 04:23	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 04:23	1	AAT
1,1-Dichloroethene	0.00023	U J	0.0010	0.00023	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2-Dibromo-3-Chloropropane	0.00048	U	0.0010	0.00048	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	☆	11/04/23 04:23	1	AAT
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☆	11/04/23 04:23	1	AAT
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☆	11/04/23 04:23	1	AAT
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:23	1	AAT
1,4-Dioxane	0.0096	U	0.10	0.0096	mg/Kg	☆	11/04/23 04:23	1	AAT
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	☆	11/04/23 04:23	1	AAT
2-Hexanone	0.0018	U	0.0052	0.0018	mg/Kg	☆	11/04/23 04:23	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0052	0.0016	mg/Kg	☆	11/04/23 04:23	1	AAT
Acetone	0.016		0.0062	0.0059	mg/Kg	☆	11/04/23 04:23	1	AAT
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 04:23	1	AAT
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☆	11/04/23 04:23	1	AAT
Bromomethane	0.0010	U	0.0021	0.0010	mg/Kg	☆	11/04/23 04:23	1	AAT
Carbon disulfide	0.00028	U J	0.0010	0.00028	mg/Kg	☆	11/04/23 04:23	1	AAT
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☆	11/04/23 04:23	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 04:23	1	AAT
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☆	11/04/23 04:23	1	AAT
Chlorodibromomethane	0.00020	U	0.0010	0.00020	mg/Kg	☆	11/04/23 04:23	1	AAT
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☆	11/04/23 04:23	1	AAT
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☆	11/04/23 04:23	1	AAT
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☆	11/04/23 04:23	1	AAT
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:23	1	AAT
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 04:23	1	AAT
Cyclohexane	0.00023	U J	0.0010	0.00023	mg/Kg	☆	11/04/23 04:23	1	AAT
Dichlorobromomethane	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 04:23	1	AAT
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☆	11/04/23 04:23	1	AAT
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 04:23	1	AAT
Ethylene Dibromide	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 04:23	1	AAT
Isopropylbenzene	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 04:23	1	AAT
Methyl acetate	0.0045	U J	0.0052	0.0045	mg/Kg	☆	11/04/23 04:23	1	AAT
Methyl tert-butyl ether	0.00053	U	0.0010	0.00053	mg/Kg	☆	11/04/23 04:23	1	AAT
Methylcyclohexane	0.00052	U J	0.0010	0.00052	mg/Kg	☆	11/04/23 04:23	1	AAT
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☆	11/04/23 04:23	1	AAT
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 04:23	1	AAT
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☆	11/04/23 04:23	1	AAT
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☆	11/04/23 04:23	1	AAT
Tetrachloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☆	11/04/23 04:23	1	AAT
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☆	11/04/23 04:23	1	AAT
trans-1,2-Dichloroethene	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 04:23	1	AAT
trans-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 04:23	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (12.0-18.0)

Lab Sample ID: 460-291365-1

Date Collected: 10/27/23 09:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	11/04/23 04:23	1	AAT
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	11/04/23 04:23	1	AAT
Vinyl chloride	0.00057	U	0.0010	0.00057	mg/Kg	☼	11/04/23 04:23	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 04:23	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	99		72 - 138	11/04/23 04:23	1	AAT
4-Bromofluorobenzene	82		63 - 139	11/04/23 04:23	1	AAT
Dibromofluoromethane (Surr)	100		54 - 150	11/04/23 04:23	1	AAT
Toluene-d8 (Surr)	89		71 - 126	11/04/23 04:23	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U J	0.34	0.021	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.069	0.037	mg/Kg	☼	11/01/23 13:14	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.069	0.025	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Methylnaphthalene	0.0096	U	0.34	0.0096	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	11/01/23 13:14	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	11/01/23 13:14	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	11/01/23 13:14	1	MDJ
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	☼	11/01/23 13:14	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U F1 UJ	0.28	0.14	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	11/01/23 13:14	1	MDJ
4-Nitrophenol	0.056	U	0.69	0.056	mg/Kg	☼	11/01/23 13:14	1	MDJ
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	11/01/23 13:14	1	MDJ
Acenaphthylene	0.020	J	0.34	0.0098	mg/Kg	☼	11/01/23 13:14	1	MDJ
Acetophenone	0.050	J	0.34	0.017	mg/Kg	☼	11/01/23 13:14	1	MDJ
Anthracene	0.014	J	0.34	0.010	mg/Kg	☼	11/01/23 13:14	1	MDJ
Atrazine	0.020	U F1	0.14	0.020	mg/Kg	☼	11/01/23 13:14	1	MDJ
Benzaldehyde	0.057	U J	0.34	0.057	mg/Kg	☼	11/01/23 13:14	1	MDJ
Benzo[a]anthracene	0.059		0.034	0.026	mg/Kg	☼	11/01/23 13:14	1	MDJ
Benzo[a]pyrene	0.078		0.034	0.0091	mg/Kg	☼	11/01/23 13:14	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (12.0-18.0)

Lab Sample ID: 460-291365-1

Date Collected: 10/27/23 09:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.093		0.034	0.0089	mg/Kg	☼	11/01/23 13:14	1	MDJ
Benzo[g,h,i]perylene	0.051	J F	0.34	0.010	mg/Kg	☼	11/01/23 13:14	1	MDJ
Benzo[k]fluoranthene	0.037		0.034	0.0067	mg/Kg	☼	11/01/23 13:14	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	11/01/23 13:14	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	J	0.34	0.018	mg/Kg	☼	11/01/23 13:14	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	11/01/23 13:14	1	MDJ
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☼	11/01/23 13:14	1	MDJ
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	11/01/23 13:14	1	MDJ
Chrysene	0.065	J	0.34	0.014	mg/Kg	☼	11/01/23 13:14	1	MDJ
Dibenz(a,h)anthracene	0.015	J	0.034	0.015	mg/Kg	☼	11/01/23 13:14	1	MDJ
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	11/01/23 13:14	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	11/01/23 13:14	1	MDJ
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	11/01/23 13:14	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	11/01/23 13:14	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	11/01/23 13:14	1	MDJ
Fluoranthene	0.083	J	0.34	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	11/01/23 13:14	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	11/01/23 13:14	1	MDJ
Hexachlorobutadiene	0.0073	U	0.069	0.0073	mg/Kg	☼	11/01/23 13:14	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U F1 *	0.34	0.030	mg/Kg	☼	11/01/23 13:14	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	11/01/23 13:14	1	MDJ
Indeno[1,2,3-cd]pyrene	0.047		0.034	0.013	mg/Kg	☼	11/01/23 13:14	1	MDJ
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	11/01/23 13:14	1	MDJ
Naphthalene	0.0075	J	0.34	0.0059	mg/Kg	☼	11/01/23 13:14	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	11/01/23 13:14	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	11/01/23 13:14	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	11/01/23 13:14	1	MDJ
Pentachlorophenol	0.070	U J	0.28	0.070	mg/Kg	☼	11/01/23 13:14	1	MDJ
Phenanthrene	0.036	J	0.34	0.014	mg/Kg	☼	11/01/23 13:14	1	MDJ
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	11/01/23 13:14	1	MDJ
Pyrene	0.089	J	0.34	0.0085	mg/Kg	☼	11/01/23 13:14	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Benzene, 1,1'-(1,2-cyclobutanediyl)bis-, trans-	0.52	J N	mg/Kg	☼	8.14	20071-09-4	11/01/23 13:14	1	MDJ
Bisphenol-A	0.23	J N	mg/Kg	☼	9.82	80-05-7	11/01/23 13:14	1	MDJ
Unknown	0.71	J N	mg/Kg	☼	10.81	N/A	11/01/23 13:14	1	MDJ
Unknown	1.1	J N	mg/Kg	☼	11.18	N/A	11/01/23 13:14	1	MDJ
Unknown	1.8	J N	mg/Kg	☼	11.23	N/A	11/01/23 13:14	1	MDJ
Unknown	0.58	J N	mg/Kg	☼	11.26	N/A	11/01/23 13:14	1	MDJ
Unknown	0.65	J N	mg/Kg	☼	11.30	N/A	11/01/23 13:14	1	MDJ
Unknown	3.7	J N	mg/Kg	☼	13.37	N/A	11/01/23 13:14	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	68		24 - 137	11/01/23 13:14	1	MDJ
2-Fluorobiphenyl	87		48 - 120	11/01/23 13:14	1	MDJ
2-Fluorophenol (Surr)	83		31 - 120	11/01/23 13:14	1	MDJ
Nitrobenzene-d5 (Surr)	96		38 - 120	11/01/23 13:14	1	MDJ
Phenol-d5 (Surr)	91		39 - 120	11/01/23 13:14	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (12.0-18.0)

Lab Sample ID: 460-291365-1

Date Collected: 10/27/23 09:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
Terphenyl-d14 (Surr)	85		25 - 126	11/01/23 13:14	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	8110		19.6	5.4	mg/Kg	✱	11/09/23 21:31	1	CDC
Antimony	0.26	J	0.98	0.14	mg/Kg	✱	11/09/23 21:31	1	CDC
Arsenic	3.0		0.98	0.10	mg/Kg	✱	11/09/23 21:31	1	CDC
Barium	72.8		2.0	0.14	mg/Kg	✱	11/09/23 21:31	1	CDC
Beryllium	0.33	J	0.39	0.056	mg/Kg	✱	11/09/23 21:31	1	CDC
Cadmium	0.23	J	0.98	0.11	mg/Kg	✱	11/09/23 21:31	1	CDC
Calcium	21300	J	97.8	39.8	mg/Kg	✱	11/09/23 21:31	1	CDC
Chromium	18.1	J	2.0	0.89	mg/Kg	✱	11/09/23 21:31	1	CDC
Cobalt	6.8	J	2.0	0.14	mg/Kg	✱	11/09/23 21:31	1	CDC
Copper	32.1	J	2.0	0.36	mg/Kg	✱	11/09/23 21:31	1	CDC
Iron	14800		58.7	19.7	mg/Kg	✱	11/09/23 21:31	1	CDC
Lead	57.0	J	0.59	0.20	mg/Kg	✱	11/09/23 21:31	1	CDC
Magnesium	12000	J	97.8	10	mg/Kg	✱	11/09/23 21:31	1	CDC
Manganese	319		3.9	0.39	mg/Kg	✱	11/09/23 21:31	1	CDC
Nickel	14.1	J	2.0	0.46	mg/Kg	✱	11/09/23 21:31	1	CDC
Potassium	1870		97.8	15.8	mg/Kg	✱	11/09/23 21:31	1	CDC
Selenium	0.21	J	1.2	0.13	mg/Kg	✱	11/09/23 21:31	1	CDC
Silver	0.39		0.39	0.087	mg/Kg	✱	11/09/23 21:31	1	CDC
Sodium	133		97.8	44.7	mg/Kg	✱	11/09/23 21:31	1	CDC
Thallium	0.11	J	0.39	0.040	mg/Kg	✱	11/09/23 21:31	1	CDC
Vanadium	35.0	J	2.0	0.20	mg/Kg	✱	11/09/23 21:31	1	CDC
Zinc	89.6		7.8	3.0	mg/Kg	✱	11/09/23 21:31	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.16	J	0.016	0.0075	mg/Kg	✱	11/10/23 05:36	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.16	J F1	0.23	0.13	mg/Kg	✱	11/05/23 15:04	1	VBG

Client Sample ID: SS-6 (0.0-2.0)

Lab Sample ID: 460-291365-2

Date Collected: 10/27/23 09:45

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 04:47	1	AAT
1,1,2,2-Tetrachloroethane	0.00019	U	0.00087	0.00019	mg/Kg	✱	11/04/23 04:47	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00087	0.00026	mg/Kg	✱	11/04/23 04:47	1	AAT
1,1,2-Trichloroethane	0.00016	U	0.00087	0.00016	mg/Kg	✱	11/04/23 04:47	1	AAT
1,1-Dichloroethane	0.00018	U	0.00087	0.00018	mg/Kg	✱	11/04/23 04:47	1	AAT
1,1-Dichloroethene	0.00020	U J	0.00087	0.00020	mg/Kg	✱	11/04/23 04:47	1	AAT
1,2,3-Trichlorobenzene	0.00016	U	0.00087	0.00016	mg/Kg	✱	11/04/23 04:47	1	AAT
1,2,4-Trichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	✱	11/04/23 04:47	1	AAT
1,2-Dibromo-3-Chloropropane	0.00040	U	0.00087	0.00040	mg/Kg	✱	11/04/23 04:47	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (0.0-2.0)

Lab Sample ID: 460-291365-2

Date Collected: 10/27/23 09:45

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	☼	11/04/23 04:47	1	AAT
1,2-Dichloroethane	0.00026	U	0.00087	0.00026	mg/Kg	☼	11/04/23 04:47	1	AAT
1,2-Dichloropropane	0.00037	U	0.00087	0.00037	mg/Kg	☼	11/04/23 04:47	1	AAT
1,3-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	☼	11/04/23 04:47	1	AAT
1,4-Dichlorobenzene	0.00020	U	0.00087	0.00020	mg/Kg	☼	11/04/23 04:47	1	AAT
1,4-Dioxane	0.0080	U	0.087	0.0080	mg/Kg	☼	11/04/23 04:47	1	AAT
2-Butanone (MEK)	0.00032	U	0.0044	0.00032	mg/Kg	☼	11/04/23 04:47	1	AAT
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	☼	11/04/23 04:47	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	☼	11/04/23 04:47	1	AAT
Acetone	0.0050	U	0.0052	0.0050	mg/Kg	☼	11/04/23 04:47	1	AAT
Benzene	0.00023	U	0.00087	0.00023	mg/Kg	☼	11/04/23 04:47	1	AAT
Bromoform	0.00037	U	0.00087	0.00037	mg/Kg	☼	11/04/23 04:47	1	AAT
Bromomethane	0.00087	U	0.0017	0.00087	mg/Kg	☼	11/04/23 04:47	1	AAT
Carbon disulfide	0.00023	U J	0.00087	0.00023	mg/Kg	☼	11/04/23 04:47	1	AAT
Carbon tetrachloride	0.00034	U	0.00087	0.00034	mg/Kg	☼	11/04/23 04:47	1	AAT
Chlorobenzene	0.00015	U	0.00087	0.00015	mg/Kg	☼	11/04/23 04:47	1	AAT
Chlorobromomethane	0.00025	U	0.00087	0.00025	mg/Kg	☼	11/04/23 04:47	1	AAT
Chlorodibromomethane	0.00017	U	0.00087	0.00017	mg/Kg	☼	11/04/23 04:47	1	AAT
Chloroethane	0.00046	U	0.00087	0.00046	mg/Kg	☼	11/04/23 04:47	1	AAT
Chloroform	0.00085	U	0.00087	0.00085	mg/Kg	☼	11/04/23 04:47	1	AAT
Chloromethane	0.00038	U	0.00087	0.00038	mg/Kg	☼	11/04/23 04:47	1	AAT
cis-1,2-Dichloroethene	0.00031	U	0.00087	0.00031	mg/Kg	☼	11/04/23 04:47	1	AAT
cis-1,3-Dichloropropene	0.00024	U	0.00087	0.00024	mg/Kg	☼	11/04/23 04:47	1	AAT
Cyclohexane	0.00019	U J	0.00087	0.00019	mg/Kg	☼	11/04/23 04:47	1	AAT
Dichlorobromomethane	0.00022	U	0.00087	0.00022	mg/Kg	☼	11/04/23 04:47	1	AAT
Dichlorodifluoromethane	0.00030	U	0.00087	0.00030	mg/Kg	☼	11/04/23 04:47	1	AAT
Ethylbenzene	0.00017	U	0.00087	0.00017	mg/Kg	☼	11/04/23 04:47	1	AAT
Ethylene Dibromide	0.00016	U	0.00087	0.00016	mg/Kg	☼	11/04/23 04:47	1	AAT
Isopropylbenzene	0.00025	U	0.00087	0.00025	mg/Kg	☼	11/04/23 04:47	1	AAT
Methyl acetate	0.0038	U J	0.0044	0.0038	mg/Kg	☼	11/04/23 04:47	1	AAT
Methyl tert-butyl ether	0.00045	U	0.00087	0.00045	mg/Kg	☼	11/04/23 04:47	1	AAT
Methylcyclohexane	0.00044	U J	0.00087	0.00044	mg/Kg	☼	11/04/23 04:47	1	AAT
Methylene Chloride	0.0010	U	0.0017	0.0010	mg/Kg	☼	11/04/23 04:47	1	AAT
m-Xylene & p-Xylene	0.00015	U	0.00087	0.00015	mg/Kg	☼	11/04/23 04:47	1	AAT
o-Xylene	0.00017	U	0.00087	0.00017	mg/Kg	☼	11/04/23 04:47	1	AAT
Styrene	0.00024	U	0.00087	0.00024	mg/Kg	☼	11/04/23 04:47	1	AAT
Tetrachloroethene	0.00027	U	0.00087	0.00027	mg/Kg	☼	11/04/23 04:47	1	AAT
Toluene	0.00020	U	0.00087	0.00020	mg/Kg	☼	11/04/23 04:47	1	AAT
trans-1,2-Dichloroethene	0.00022	U	0.00087	0.00022	mg/Kg	☼	11/04/23 04:47	1	AAT
trans-1,3-Dichloropropene	0.00023	U	0.00087	0.00023	mg/Kg	☼	11/04/23 04:47	1	AAT
Trichloroethene	0.00028	U	0.00087	0.00028	mg/Kg	☼	11/04/23 04:47	1	AAT
Trichlorofluoromethane	0.00036	U	0.00087	0.00036	mg/Kg	☼	11/04/23 04:47	1	AAT
Vinyl chloride	0.00048	U	0.00087	0.00048	mg/Kg	☼	11/04/23 04:47	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 04:47	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		72 - 138	11/04/23 04:47	1	AAT
4-Bromofluorobenzene	91		63 - 139	11/04/23 04:47	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (0.0-2.0)

Lab Sample ID: 460-291365-2

Date Collected: 10/27/23 09:45

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
Dibromofluoromethane (Surr)	108		54 - 150	11/04/23 04:47	1	AAT
Toluene-d8 (Surr)	97		71 - 126	11/04/23 04:47	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 15:53	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 15:53	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 15:53	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 15:53	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	✱	11/01/23 15:53	1	MDJ
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	✱	11/01/23 15:53	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	✱	11/01/23 15:53	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 15:53	1	MDJ
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	✱	11/01/23 15:53	1	MDJ
Acenaphthylene	0.011	J	0.33	0.0096	mg/Kg	✱	11/01/23 15:53	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 15:53	1	MDJ
Anthracene	0.012	J	0.33	0.010	mg/Kg	✱	11/01/23 15:53	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzo[a]anthracene	0.063		0.033	0.025	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzo[a]pyrene	0.086		0.033	0.0089	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzo[b]fluoranthene	0.13		0.033	0.0087	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzo[g,h,i]perylene	0.067	J	0.33	0.0099	mg/Kg	✱	11/01/23 15:53	1	MDJ
Benzo[k]fluoranthene	0.045		0.033	0.0066	mg/Kg	✱	11/01/23 15:53	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 15:53	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 15:53	1	MDJ
Bis(2-ethylhexyl) phthalate	0.17	J	0.33	0.018	mg/Kg	✱	11/01/23 15:53	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 15:53	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 15:53	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 15:53	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (0.0-2.0)

Lab Sample ID: 460-291365-2

Date Collected: 10/27/23 09:45

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chrysene	0.088	J	0.33	0.014	mg/Kg	☆	11/01/23 15:53	1	MDJ
Dibenz(a,h)anthracene	0.016	J	0.033	0.015	mg/Kg	☆	11/01/23 15:53	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☆	11/01/23 15:53	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☆	11/01/23 15:53	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☆	11/01/23 15:53	1	MDJ
Di-n-butyl phthalate	0.013	J	0.33	0.013	mg/Kg	☆	11/01/23 15:53	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☆	11/01/23 15:53	1	MDJ
Fluoranthene	0.12	J	0.33	0.012	mg/Kg	☆	11/01/23 15:53	1	MDJ
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☆	11/01/23 15:53	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☆	11/01/23 15:53	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☆	11/01/23 15:53	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	☆	11/01/23 15:53	1	MDJ
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☆	11/01/23 15:53	1	MDJ
Indeno[1,2,3-cd]pyrene	0.060		0.033	0.013	mg/Kg	☆	11/01/23 15:53	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	☆	11/01/23 15:53	1	MDJ
Naphthalene	0.0063	J	0.33	0.0058	mg/Kg	☆	11/01/23 15:53	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☆	11/01/23 15:53	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☆	11/01/23 15:53	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☆	11/01/23 15:53	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☆	11/01/23 15:53	1	MDJ
Phenanthrene	0.052	J	0.33	0.014	mg/Kg	☆	11/01/23 15:53	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☆	11/01/23 15:53	1	MDJ
Pyrene	0.13	J	0.33	0.0083	mg/Kg	☆	11/01/23 15:53	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	11/01/23 15:53	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	75		24 - 137	11/01/23 15:53	1	MDJ
2-Fluorobiphenyl	90		48 - 120	11/01/23 15:53	1	MDJ
2-Fluorophenol (Surr)	92		31 - 120	11/01/23 15:53	1	MDJ
Nitrobenzene-d5 (Surr)	102		38 - 120	11/01/23 15:53	1	MDJ
Phenol-d5 (Surr)	98		39 - 120	11/01/23 15:53	1	MDJ
Terphenyl-d14 (Surr)	105		25 - 126	11/01/23 15:53	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	8790		18.6	5.1	mg/Kg	☆	11/09/23 20:39	1	CDC
Antimony	1.0	J	0.93	0.14	mg/Kg	☆	11/09/23 20:39	1	CDC
Arsenic	2.8		0.93	0.096	mg/Kg	☆	11/09/23 20:39	1	CDC
Barium	92.3		1.9	0.14	mg/Kg	☆	11/09/23 20:39	1	CDC
Beryllium	0.37		0.37	0.053	mg/Kg	☆	11/09/23 20:39	1	CDC
Cadmium	0.24	J	0.93	0.11	mg/Kg	☆	11/09/23 20:39	1	CDC
Calcium	19200	J	93.2	37.9	mg/Kg	☆	11/09/23 20:39	1	CDC
Chromium	21.7	J	1.9	0.85	mg/Kg	☆	11/09/23 20:39	1	CDC
Cobalt	7.7	J	1.9	0.14	mg/Kg	☆	11/09/23 20:39	1	CDC
Copper	44.1	J	1.9	0.34	mg/Kg	☆	11/09/23 20:39	1	CDC
Iron	18000		55.9	18.8	mg/Kg	☆	11/09/23 20:39	1	CDC
Lead	81.0	J	0.56	0.19	mg/Kg	☆	11/09/23 20:39	1	CDC
Magnesium	13200	J	93.2	9.5	mg/Kg	☆	11/09/23 20:39	1	CDC

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (0.0-2.0)

Lab Sample ID: 460-291365-2

Date Collected: 10/27/23 09:45

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Manganese	226		3.7	0.38	mg/Kg	☆	11/09/23 20:39	1	CDC
Nickel	14.3	J	1.9	0.44	mg/Kg	☆	11/09/23 20:39	1	CDC
Potassium	3580		93.2	15.1	mg/Kg	☆	11/09/23 20:39	1	CDC
Selenium	0.61	J	1.2	0.12	mg/Kg	☆	11/09/23 20:39	1	CDC
Silver	0.32	J	0.37	0.083	mg/Kg	☆	11/09/23 20:39	1	CDC
Sodium	153		93.2	42.6	mg/Kg	☆	11/09/23 20:39	1	CDC
Thallium	0.20	J	0.37	0.038	mg/Kg	☆	11/09/23 20:39	1	CDC
Vanadium	32.1	J	1.9	0.19	mg/Kg	☆	11/09/23 20:39	1	CDC
Zinc	195		7.5	2.8	mg/Kg	☆	11/09/23 20:39	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.099	J	0.016	0.0075	mg/Kg	☆	11/10/23 05:37	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.16	J	0.24	0.13	mg/Kg	☆	11/05/23 15:07	1	VBG

Client Sample ID: SS-5 (2.0-12.0)

Lab Sample ID: 460-291365-3

Date Collected: 10/27/23 09:35

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00091	0.00021	mg/Kg	☆	11/04/23 05:11	1	AAT
1,1,2,2-Tetrachloroethane	0.00019	U	0.00091	0.00019	mg/Kg	☆	11/04/23 05:11	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U	0.00091	0.00027	mg/Kg	☆	11/04/23 05:11	1	AAT
1,1,2-Trichloroethane	0.00016	U	0.00091	0.00016	mg/Kg	☆	11/04/23 05:11	1	AAT
1,1-Dichloroethane	0.00019	U	0.00091	0.00019	mg/Kg	☆	11/04/23 05:11	1	AAT
1,1-Dichloroethene	0.00020	U J	0.00091	0.00020	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2,3-Trichlorobenzene	0.00016	U	0.00091	0.00016	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2,4-Trichlorobenzene	0.00032	U	0.00091	0.00032	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00091	0.00042	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2-Dichlorobenzene	0.00033	U	0.00091	0.00033	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2-Dichloroethane	0.00027	U	0.00091	0.00027	mg/Kg	☆	11/04/23 05:11	1	AAT
1,2-Dichloropropane	0.00038	U	0.00091	0.00038	mg/Kg	☆	11/04/23 05:11	1	AAT
1,3-Dichlorobenzene	0.00033	U	0.00091	0.00033	mg/Kg	☆	11/04/23 05:11	1	AAT
1,4-Dichlorobenzene	0.00020	U	0.00091	0.00020	mg/Kg	☆	11/04/23 05:11	1	AAT
1,4-Dioxane	0.0083	U	0.091	0.0083	mg/Kg	☆	11/04/23 05:11	1	AAT
2-Butanone (MEK)	0.00033	U	0.0045	0.00033	mg/Kg	☆	11/04/23 05:11	1	AAT
2-Hexanone	0.0016	U	0.0045	0.0016	mg/Kg	☆	11/04/23 05:11	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0045	0.0014	mg/Kg	☆	11/04/23 05:11	1	AAT
Acetone	0.0052	U	0.0054	0.0052	mg/Kg	☆	11/04/23 05:11	1	AAT
Benzene	0.00023	U	0.00091	0.00023	mg/Kg	☆	11/04/23 05:11	1	AAT
Bromoform	0.00039	U	0.00091	0.00039	mg/Kg	☆	11/04/23 05:11	1	AAT
Bromomethane	0.00091	U	0.0018	0.00091	mg/Kg	☆	11/04/23 05:11	1	AAT
Carbon disulfide	0.00024	U J	0.00091	0.00024	mg/Kg	☆	11/04/23 05:11	1	AAT
Carbon tetrachloride	0.00035	U	0.00091	0.00035	mg/Kg	☆	11/04/23 05:11	1	AAT
Chlorobenzene	0.00016	U	0.00091	0.00016	mg/Kg	☆	11/04/23 05:11	1	AAT
Chlorobromomethane	0.00026	U	0.00091	0.00026	mg/Kg	☆	11/04/23 05:11	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (2.0-12.0)

Lab Sample ID: 460-291365-3

Date Collected: 10/27/23 09:35

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorodibromomethane	0.00018	U	0.00091	0.00018	mg/Kg	✱	11/04/23 05:11	1	AAT
Chloroethane	0.00047	U	0.00091	0.00047	mg/Kg	✱	11/04/23 05:11	1	AAT
Chloroform	0.00088	U	0.00091	0.00088	mg/Kg	✱	11/04/23 05:11	1	AAT
Chloromethane	0.00039	U	0.00091	0.00039	mg/Kg	✱	11/04/23 05:11	1	AAT
cis-1,2-Dichloroethene	0.00032	U	0.00091	0.00032	mg/Kg	✱	11/04/23 05:11	1	AAT
cis-1,3-Dichloropropene	0.00025	U	0.00091	0.00025	mg/Kg	✱	11/04/23 05:11	1	AAT
Cyclohexane	0.00020	U J	0.00091	0.00020	mg/Kg	✱	11/04/23 05:11	1	AAT
Dichlorobromomethane	0.00023	U	0.00091	0.00023	mg/Kg	✱	11/04/23 05:11	1	AAT
Dichlorodifluoromethane	0.00031	U	0.00091	0.00031	mg/Kg	✱	11/04/23 05:11	1	AAT
Ethylbenzene	0.00018	U	0.00091	0.00018	mg/Kg	✱	11/04/23 05:11	1	AAT
Ethylene Dibromide	0.00016	U	0.00091	0.00016	mg/Kg	✱	11/04/23 05:11	1	AAT
Isopropylbenzene	0.00026	U	0.00091	0.00026	mg/Kg	✱	11/04/23 05:11	1	AAT
Methyl acetate	0.0039	U J	0.0045	0.0039	mg/Kg	✱	11/04/23 05:11	1	AAT
Methyl tert-butyl ether	0.00046	U	0.00091	0.00046	mg/Kg	✱	11/04/23 05:11	1	AAT
Methylcyclohexane	0.00045	U J	0.00091	0.00045	mg/Kg	✱	11/04/23 05:11	1	AAT
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	✱	11/04/23 05:11	1	AAT
m-Xylene & p-Xylene	0.00016	U	0.00091	0.00016	mg/Kg	✱	11/04/23 05:11	1	AAT
o-Xylene	0.00018	U	0.00091	0.00018	mg/Kg	✱	11/04/23 05:11	1	AAT
Styrene	0.00025	U	0.00091	0.00025	mg/Kg	✱	11/04/23 05:11	1	AAT
Tetrachloroethene	0.00028	U	0.00091	0.00028	mg/Kg	✱	11/04/23 05:11	1	AAT
Toluene	0.00021	U	0.00091	0.00021	mg/Kg	✱	11/04/23 05:11	1	AAT
trans-1,2-Dichloroethene	0.00022	U	0.00091	0.00022	mg/Kg	✱	11/04/23 05:11	1	AAT
trans-1,3-Dichloropropene	0.00024	U	0.00091	0.00024	mg/Kg	✱	11/04/23 05:11	1	AAT
Trichloroethene	0.00029	U	0.00091	0.00029	mg/Kg	✱	11/04/23 05:11	1	AAT
Trichlorofluoromethane	0.00037	U	0.00091	0.00037	mg/Kg	✱	11/04/23 05:11	1	AAT
Vinyl chloride	0.00050	U	0.00091	0.00050	mg/Kg	✱	11/04/23 05:11	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/04/23 05:11	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	106		72 - 138	11/04/23 05:11	1	AAT
4-Bromofluorobenzene	88		63 - 139	11/04/23 05:11	1	AAT
Dibromofluoromethane (Surr)	102		54 - 150	11/04/23 05:11	1	AAT
Toluene-d8 (Surr)	93		71 - 126	11/04/23 05:11	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.34	0.020	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 14:45	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 14:45	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 14:45	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (2.0-12.0)

Lab Sample ID: 460-291365-3

Date Collected: 10/27/23 09:35

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
2-Methylnaphthalene	0.011	J	0.34	0.0094	mg/Kg	✱	11/01/23 14:45	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 14:45	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 14:45	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 14:45	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	✱	11/01/23 14:45	1	MDJ
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	✱	11/01/23 14:45	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	✱	11/01/23 14:45	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 14:45	1	MDJ
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	✱	11/01/23 14:45	1	MDJ
Acenaphthylene	0.088	J	0.34	0.0096	mg/Kg	✱	11/01/23 14:45	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	✱	11/01/23 14:45	1	MDJ
Anthracene	0.033	J	0.34	0.010	mg/Kg	✱	11/01/23 14:45	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzaldehyde	0.056	U J	0.34	0.056	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzo[a]anthracene	0.28		0.034	0.025	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzo[a]pyrene	0.43		0.034	0.0090	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzo[b]fluoranthene	0.43		0.034	0.0087	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzo[g,h,i]perylene	0.22	J	0.34	0.0099	mg/Kg	✱	11/01/23 14:45	1	MDJ
Benzo[k]fluoranthene	0.16		0.034	0.0066	mg/Kg	✱	11/01/23 14:45	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 14:45	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	J	0.34	0.018	mg/Kg	✱	11/01/23 14:45	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 14:45	1	MDJ
Caprolactam	0.052	U	0.34	0.052	mg/Kg	✱	11/01/23 14:45	1	MDJ
Carbazole	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 14:45	1	MDJ
Chrysene	0.29	J	0.34	0.014	mg/Kg	✱	11/01/23 14:45	1	MDJ
Dibenz(a,h)anthracene	0.060		0.034	0.015	mg/Kg	✱	11/01/23 14:45	1	MDJ
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 14:45	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 14:45	1	MDJ
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	✱	11/01/23 14:45	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 14:45	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 14:45	1	MDJ
Fluoranthene	0.16	J	0.34	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
Fluorene	0.011	J	0.34	0.0099	mg/Kg	✱	11/01/23 14:45	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	✱	11/01/23 14:45	1	MDJ
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	✱	11/01/23 14:45	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.34	0.030	mg/Kg	✱	11/01/23 14:45	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 14:45	1	MDJ
Indeno[1,2,3-cd]pyrene	0.23		0.034	0.013	mg/Kg	✱	11/01/23 14:45	1	MDJ
Isophorone	0.097	U	0.14	0.097	mg/Kg	✱	11/01/23 14:45	1	MDJ
Naphthalene	0.023	J	0.34	0.0058	mg/Kg	✱	11/01/23 14:45	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	✱	11/01/23 14:45	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (2.0-12.0)

Lab Sample ID: 460-291365-3

Date Collected: 10/27/23 09:35

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
N-Nitrosodi-n-propylamine	0.024	U	0.034	0.024	mg/Kg	☼	11/01/23 14:45	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	11/01/23 14:45	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☼	11/01/23 14:45	1	MDJ
Phenanthrene	0.052	J	0.34	0.014	mg/Kg	☼	11/01/23 14:45	1	MDJ
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 14:45	1	MDJ
Pyrene	0.28	J	0.34	0.0084	mg/Kg	☼	11/01/23 14:45	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 14:45	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	76		24 - 137	11/01/23 14:45	1	MDJ
2-Fluorobiphenyl	91		48 - 120	11/01/23 14:45	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	11/01/23 14:45	1	MDJ
Nitrobenzene-d5 (Surr)	101		38 - 120	11/01/23 14:45	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	11/01/23 14:45	1	MDJ
Terphenyl-d14 (Surr)	98		25 - 126	11/01/23 14:45	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	8830		19.5	5.4	mg/Kg	☼	11/09/23 20:42	1	CDC
Antimony	0.35	J	0.97	0.14	mg/Kg	☼	11/09/23 20:42	1	CDC
Arsenic	2.9		0.97	0.10	mg/Kg	☼	11/09/23 20:42	1	CDC
Barium	74.7		1.9	0.14	mg/Kg	☼	11/09/23 20:42	1	CDC
Beryllium	0.34	J	0.39	0.056	mg/Kg	☼	11/09/23 20:42	1	CDC
Cadmium	0.58	J	0.97	0.11	mg/Kg	☼	11/09/23 20:42	1	CDC
Calcium	13700	J	97.5	39.7	mg/Kg	☼	11/09/23 20:42	1	CDC
Chromium	20.4	J	1.9	0.89	mg/Kg	☼	11/09/23 20:42	1	CDC
Cobalt	7.6	J	1.9	0.14	mg/Kg	☼	11/09/23 20:42	1	CDC
Copper	36.7	J	1.9	0.36	mg/Kg	☼	11/09/23 20:42	1	CDC
Iron	17700		58.5	19.7	mg/Kg	☼	11/09/23 20:42	1	CDC
Lead	48.6	J	0.58	0.19	mg/Kg	☼	11/09/23 20:42	1	CDC
Magnesium	10100	J	97.5	9.9	mg/Kg	☼	11/09/23 20:42	1	CDC
Manganese	307		3.9	0.39	mg/Kg	☼	11/09/23 20:42	1	CDC
Nickel	19.4	J	1.9	0.46	mg/Kg	☼	11/09/23 20:42	1	CDC
Potassium	2170		97.5	15.8	mg/Kg	☼	11/09/23 20:42	1	CDC
Selenium	0.28	J	1.2	0.12	mg/Kg	☼	11/09/23 20:42	1	CDC
Silver	0.17	J	0.39	0.087	mg/Kg	☼	11/09/23 20:42	1	CDC
Sodium	149		97.5	44.6	mg/Kg	☼	11/09/23 20:42	1	CDC
Thallium	0.13	J	0.39	0.040	mg/Kg	☼	11/09/23 20:42	1	CDC
Vanadium	28.5	J	1.9	0.20	mg/Kg	☼	11/09/23 20:42	1	CDC
Zinc	87.7		7.8	3.0	mg/Kg	☼	11/09/23 20:42	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.11	J	0.016	0.0076	mg/Kg	☼	11/10/23 05:43	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.12	U	0.23	0.12	mg/Kg	☼	11/05/23 15:08	1	VBG

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (2.0-12.0)

Lab Sample ID: 460-291365-4

Date Collected: 10/27/23 09:50

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 05:36	1	AAT
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 05:36	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 05:36	1	AAT
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 05:36	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 05:36	1	AAT
1,1-Dichloroethene	0.00023	U J	0.0010	0.00023	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 05:36	1	AAT
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☆	11/04/23 05:36	1	AAT
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 05:36	1	AAT
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 05:36	1	AAT
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg	☆	11/04/23 05:36	1	AAT
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☆	11/04/23 05:36	1	AAT
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg	☆	11/04/23 05:36	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg	☆	11/04/23 05:36	1	AAT
Acetone	0.0057	U	0.0060	0.0057	mg/Kg	☆	11/04/23 05:36	1	AAT
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 05:36	1	AAT
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☆	11/04/23 05:36	1	AAT
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☆	11/04/23 05:36	1	AAT
Carbon disulfide	0.00027	U J	0.0010	0.00027	mg/Kg	☆	11/04/23 05:36	1	AAT
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☆	11/04/23 05:36	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 05:36	1	AAT
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 05:36	1	AAT
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 05:36	1	AAT
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☆	11/04/23 05:36	1	AAT
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg	☆	11/04/23 05:36	1	AAT
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg	☆	11/04/23 05:36	1	AAT
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 05:36	1	AAT
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 05:36	1	AAT
Cyclohexane	0.00022	U J	0.0010	0.00022	mg/Kg	☆	11/04/23 05:36	1	AAT
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 05:36	1	AAT
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☆	11/04/23 05:36	1	AAT
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☆	11/04/23 05:36	1	AAT
Ethylene Dibromide	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 05:36	1	AAT
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☆	11/04/23 05:36	1	AAT
Methyl acetate	0.0043	U J	0.0050	0.0043	mg/Kg	☆	11/04/23 05:36	1	AAT
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	☆	11/04/23 05:36	1	AAT
Methylcyclohexane	0.00050	U J	0.0010	0.00050	mg/Kg	☆	11/04/23 05:36	1	AAT
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☆	11/04/23 05:36	1	AAT
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg	☆	11/04/23 05:36	1	AAT
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 05:36	1	AAT
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 05:36	1	AAT
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☆	11/04/23 05:36	1	AAT
Toluene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 05:36	1	AAT
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☆	11/04/23 05:36	1	AAT
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 05:36	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (2.0-12.0)

Lab Sample ID: 460-291365-4

Date Collected: 10/27/23 09:50

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	11/04/23 05:36	1	AAT
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg	☼	11/04/23 05:36	1	AAT
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg	☼	11/04/23 05:36	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 05:36	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		72 - 138	11/04/23 05:36	1	AAT
4-Bromofluorobenzene	87		63 - 139	11/04/23 05:36	1	AAT
Dibromofluoromethane (Surr)	104		54 - 150	11/04/23 05:36	1	AAT
Toluene-d8 (Surr)	95		71 - 126	11/04/23 05:36	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 15:08	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U J	0.35	0.021	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	11/01/23 15:08	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Methylnaphthalene	0.0097	U	0.35	0.0097	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☼	11/01/23 15:08	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	11/01/23 15:08	1	MDJ
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☼	11/01/23 15:08	1	MDJ
3-Nitroaniline	0.083	U	0.35	0.083	mg/Kg	☼	11/01/23 15:08	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	11/01/23 15:08	1	MDJ
4-Nitrophenol	0.057	U	0.70	0.057	mg/Kg	☼	11/01/23 15:08	1	MDJ
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	11/01/23 15:08	1	MDJ
Acenaphthylene	0.016	J	0.35	0.0099	mg/Kg	☼	11/01/23 15:08	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	11/01/23 15:08	1	MDJ
Anthracene	0.019	J	0.35	0.011	mg/Kg	☼	11/01/23 15:08	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	11/01/23 15:08	1	MDJ
Benzaldehyde	0.057	U J	0.35	0.057	mg/Kg	☼	11/01/23 15:08	1	MDJ
Benzo[a]anthracene	0.11		0.035	0.026	mg/Kg	☼	11/01/23 15:08	1	MDJ
Benzo[a]pyrene	0.14		0.035	0.0093	mg/Kg	☼	11/01/23 15:08	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (2.0-12.0)

Lab Sample ID: 460-291365-4

Date Collected: 10/27/23 09:50

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 94.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.20		0.035	0.0090	mg/Kg	✱	11/01/23 15:08	1	MDJ
Benzo[g,h,i]perylene	0.10	J	0.35	0.010	mg/Kg	✱	11/01/23 15:08	1	MDJ
Benzo[k]fluoranthene	0.074		0.035	0.0068	mg/Kg	✱	11/01/23 15:08	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	✱	11/01/23 15:08	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	✱	11/01/23 15:08	1	MDJ
Bis(2-ethylhexyl) phthalate	0.056	J	0.35	0.018	mg/Kg	✱	11/01/23 15:08	1	MDJ
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	✱	11/01/23 15:08	1	MDJ
Caprolactam	0.054	U	0.35	0.054	mg/Kg	✱	11/01/23 15:08	1	MDJ
Carbazole	0.013	U	0.35	0.013	mg/Kg	✱	11/01/23 15:08	1	MDJ
Chrysene	0.13	J	0.35	0.015	mg/Kg	✱	11/01/23 15:08	1	MDJ
Dibenz(a,h)anthracene	0.027	J	0.035	0.015	mg/Kg	✱	11/01/23 15:08	1	MDJ
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	✱	11/01/23 15:08	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	✱	11/01/23 15:08	1	MDJ
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	✱	11/01/23 15:08	1	MDJ
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	✱	11/01/23 15:08	1	MDJ
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	✱	11/01/23 15:08	1	MDJ
Fluoranthene	0.20	J	0.35	0.012	mg/Kg	✱	11/01/23 15:08	1	MDJ
Fluorene	0.010	U	0.35	0.010	mg/Kg	✱	11/01/23 15:08	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	✱	11/01/23 15:08	1	MDJ
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	✱	11/01/23 15:08	1	MDJ
Hexachlorocyclopentadiene	0.031	U *	0.35	0.031	mg/Kg	✱	11/01/23 15:08	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	✱	11/01/23 15:08	1	MDJ
Indeno[1,2,3-cd]pyrene	0.10		0.035	0.014	mg/Kg	✱	11/01/23 15:08	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	✱	11/01/23 15:08	1	MDJ
Naphthalene	0.0081	J	0.35	0.0060	mg/Kg	✱	11/01/23 15:08	1	MDJ
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	✱	11/01/23 15:08	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	✱	11/01/23 15:08	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	✱	11/01/23 15:08	1	MDJ
Pentachlorophenol	0.071	U J	0.28	0.071	mg/Kg	✱	11/01/23 15:08	1	MDJ
Phenanthrene	0.075	J	0.35	0.014	mg/Kg	✱	11/01/23 15:08	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	✱	11/01/23 15:08	1	MDJ
Pyrene	0.21	J	0.35	0.0086	mg/Kg	✱	11/01/23 15:08	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/01/23 15:08	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	73		24 - 137	11/01/23 15:08	1	MDJ
2-Fluorobiphenyl	89		48 - 120	11/01/23 15:08	1	MDJ
2-Fluorophenol (Surr)	89		31 - 120	11/01/23 15:08	1	MDJ
Nitrobenzene-d5 (Surr)	101		38 - 120	11/01/23 15:08	1	MDJ
Phenol-d5 (Surr)	95		39 - 120	11/01/23 15:08	1	MDJ
Terphenyl-d14 (Surr)	100		25 - 126	11/01/23 15:08	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	9250		20.5	5.6	mg/Kg	✱	11/09/23 20:44	1	CDC
Antimony	0.43	J	1.0	0.15	mg/Kg	✱	11/09/23 20:44	1	CDC
Arsenic	2.0		1.0	0.11	mg/Kg	✱	11/09/23 20:44	1	CDC
Barium	93.6		2.1	0.15	mg/Kg	✱	11/09/23 20:44	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-6 (2.0-12.0)

Lab Sample ID: 460-291365-4

Date Collected: 10/27/23 09:50

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Beryllium	0.42		0.41	0.058	mg/Kg	☆	11/09/23 20:44	1	CDC
Cadmium	0.22	J	1.0	0.12	mg/Kg	☆	11/09/23 20:44	1	CDC
Calcium	12000	J	103	41.7	mg/Kg	☆	11/09/23 20:44	1	CDC
Chromium	20.3	J	2.1	0.93	mg/Kg	☆	11/09/23 20:44	1	CDC
Cobalt	9.0	J	2.1	0.15	mg/Kg	☆	11/09/23 20:44	1	CDC
Copper	40.0	J	2.1	0.38	mg/Kg	☆	11/09/23 20:44	1	CDC
Iron	19100		61.5	20.7	mg/Kg	☆	11/09/23 20:44	1	CDC
Lead	45.9	J	0.62	0.21	mg/Kg	☆	11/09/23 20:44	1	CDC
Magnesium	10300	J	103	10.5	mg/Kg	☆	11/09/23 20:44	1	CDC
Manganese	234		4.1	0.41	mg/Kg	☆	11/09/23 20:44	1	CDC
Nickel	16.6	J	2.1	0.48	mg/Kg	☆	11/09/23 20:44	1	CDC
Potassium	3180		103	16.6	mg/Kg	☆	11/09/23 20:44	1	CDC
Selenium	0.28	J	1.3	0.13	mg/Kg	☆	11/09/23 20:44	1	CDC
Silver	0.27	J	0.41	0.091	mg/Kg	☆	11/09/23 20:44	1	CDC
Sodium	171		103	46.9	mg/Kg	☆	11/09/23 20:44	1	CDC
Thallium	0.19	J	0.41	0.042	mg/Kg	☆	11/09/23 20:44	1	CDC
Vanadium	38.5	J	2.1	0.21	mg/Kg	☆	11/09/23 20:44	1	CDC
Zinc	132		8.2	3.1	mg/Kg	☆	11/09/23 20:44	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.047	J	0.017	0.0079	mg/Kg	☆	11/10/23 05:45	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.13	U	0.23	0.13	mg/Kg	☆	11/05/23 15:08	1	VBG

Client Sample ID: SS-1 (0.0-2.0)

Lab Sample ID: 460-291365-5

Date Collected: 10/27/23 08:19

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00039	U	0.0017	0.00039	mg/Kg	☆	11/04/23 03:33	1	AAT
1,1,2,2-Tetrachloroethane	0.00036	U	0.0017	0.00036	mg/Kg	☆	11/04/23 03:33	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00051	U	0.0017	0.00051	mg/Kg	☆	11/04/23 03:33	1	AAT
1,1,2-Trichloroethane	0.00030	U J	0.0017	0.00030	mg/Kg	☆	11/04/23 03:33	1	AAT
1,1-Dichloroethane	0.00035	U	0.0017	0.00035	mg/Kg	☆	11/04/23 03:33	1	AAT
1,1-Dichloroethene	0.00038	U	0.0017	0.00038	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2,3-Trichlorobenzene	0.00030	U	0.0017	0.00030	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2,4-Trichlorobenzene	0.00060	U	0.0017	0.00060	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2-Dibromo-3-Chloropropane	0.00077	U	0.0017	0.00077	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2-Dichlorobenzene	0.00061	U	0.0017	0.00061	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2-Dichloroethane	0.00050	U	0.0017	0.00050	mg/Kg	☆	11/04/23 03:33	1	AAT
1,2-Dichloropropane	0.00071	U	0.0017	0.00071	mg/Kg	☆	11/04/23 03:33	1	AAT
1,3-Dichlorobenzene	0.00061	U	0.0017	0.00061	mg/Kg	☆	11/04/23 03:33	1	AAT
1,4-Dichlorobenzene	0.00038	U	0.0017	0.00038	mg/Kg	☆	11/04/23 03:33	1	AAT
1,4-Dioxane	0.015	U	0.17	0.015	mg/Kg	☆	11/04/23 03:33	1	AAT
2-Butanone (MEK)	0.00062	U	0.0084	0.00062	mg/Kg	☆	11/04/23 03:33	1	AAT
2-Hexanone	0.0029	U	0.0084	0.0029	mg/Kg	☆	11/04/23 03:33	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (0.0-2.0)

Lab Sample ID: 460-291365-5

Date Collected: 10/27/23 08:19

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Methyl-2-pentanone (MIBK)	0.0026	U	0.0084	0.0026	mg/Kg	☼	11/04/23 03:33	1	AAT
Acetone	0.029		0.010	0.0096	mg/Kg	☼	11/04/23 03:33	1	AAT
Benzene	0.00043	U	0.0017	0.00043	mg/Kg	☼	11/04/23 03:33	1	AAT
Bromoform	0.00071	U	0.0017	0.00071	mg/Kg	☼	11/04/23 03:33	1	AAT
Bromomethane	0.0017	U	0.0034	0.0017	mg/Kg	☼	11/04/23 03:33	1	AAT
Carbon disulfide	0.00045	U J	0.0017	0.00045	mg/Kg	☼	11/04/23 03:33	1	AAT
Carbon tetrachloride	0.00065	U	0.0017	0.00065	mg/Kg	☼	11/04/23 03:33	1	AAT
Chlorobenzene	0.00030	U	0.0017	0.00030	mg/Kg	☼	11/04/23 03:33	1	AAT
Chlorobromomethane	0.00047	U	0.0017	0.00047	mg/Kg	☼	11/04/23 03:33	1	AAT
Chlorodibromomethane	0.00033	U	0.0017	0.00033	mg/Kg	☼	11/04/23 03:33	1	AAT
Chloroethane	0.00088	U	0.0017	0.00088	mg/Kg	☼	11/04/23 03:33	1	AAT
Chloroform	0.0016	U	0.0017	0.0016	mg/Kg	☼	11/04/23 03:33	1	AAT
Chloromethane	0.00073	U	0.0017	0.00073	mg/Kg	☼	11/04/23 03:33	1	AAT
cis-1,2-Dichloroethene	0.00060	U	0.0017	0.00060	mg/Kg	☼	11/04/23 03:33	1	AAT
cis-1,3-Dichloropropene	0.00046	U	0.0017	0.00046	mg/Kg	☼	11/04/23 03:33	1	AAT
Cyclohexane	0.00037	U	0.0017	0.00037	mg/Kg	☼	11/04/23 03:33	1	AAT
Dichlorobromomethane	0.00043	U	0.0017	0.00043	mg/Kg	☼	11/04/23 03:33	1	AAT
Dichlorodifluoromethane	0.00057	U	0.0017	0.00057	mg/Kg	☼	11/04/23 03:33	1	AAT
Ethylbenzene	0.00033	U	0.0017	0.00033	mg/Kg	☼	11/04/23 03:33	1	AAT
Ethylene Dibromide	0.00030	U	0.0017	0.00030	mg/Kg	☼	11/04/23 03:33	1	AAT
Isopropylbenzene	0.00048	U	0.0017	0.00048	mg/Kg	☼	11/04/23 03:33	1	AAT
Methyl acetate	0.0072	U	0.0084	0.0072	mg/Kg	☼	11/04/23 03:33	1	AAT
Methyl tert-butyl ether	0.00086	U	0.0017	0.00086	mg/Kg	☼	11/04/23 03:33	1	AAT
Methylcyclohexane	0.00084	U	0.0017	0.00084	mg/Kg	☼	11/04/23 03:33	1	AAT
Methylene Chloride	0.0019	U	0.0034	0.0019	mg/Kg	☼	11/04/23 03:33	1	AAT
m-Xylene & p-Xylene	0.00029	U	0.0017	0.00029	mg/Kg	☼	11/04/23 03:33	1	AAT
o-Xylene	0.00033	U	0.0017	0.00033	mg/Kg	☼	11/04/23 03:33	1	AAT
Styrene	0.00047	U	0.0017	0.00047	mg/Kg	☼	11/04/23 03:33	1	AAT
Tetrachloroethene	0.00051	U	0.0017	0.00051	mg/Kg	☼	11/04/23 03:33	1	AAT
Toluene	0.00039	U	0.0017	0.00039	mg/Kg	☼	11/04/23 03:33	1	AAT
trans-1,2-Dichloroethene	0.00041	U	0.0017	0.00041	mg/Kg	☼	11/04/23 03:33	1	AAT
trans-1,3-Dichloropropene	0.00045	U	0.0017	0.00045	mg/Kg	☼	11/04/23 03:33	1	AAT
Trichloroethene	0.00054	U	0.0017	0.00054	mg/Kg	☼	11/04/23 03:33	1	AAT
Trichlorofluoromethane	0.00068	U	0.0017	0.00068	mg/Kg	☼	11/04/23 03:33	1	AAT
Vinyl chloride	0.00092	U	0.0017	0.00092	mg/Kg	☼	11/04/23 03:33	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 03:33	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	104		72 - 138	11/04/23 03:33	1	AAT
4-Bromofluorobenzene	99		63 - 139	11/04/23 03:33	1	AAT
Dibromofluoromethane (Surr)	108		54 - 150	11/04/23 03:33	1	AAT
Toluene-d8 (Surr)	101		71 - 126	11/04/23 03:33	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.013	U	0.39	0.013	mg/Kg	☼	11/01/23 10:14	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.012	U	0.39	0.012	mg/Kg	☼	11/01/23 10:14	1	MDJ
2,2'-oxybis[1-chloropropane]	0.023	U J	0.39	0.023	mg/Kg	☼	11/01/23 10:14	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (0.0-2.0)

Lab Sample ID: 460-291365-5

Date Collected: 10/27/23 08:19

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 85.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,3,4,6-Tetrachlorophenol	0.026	U	0.39	0.026	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4,5-Trichlorophenol	0.039	U	0.39	0.039	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4,6-Trichlorophenol	0.050	U	0.16	0.050	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4-Dichlorophenol	0.025	U	0.16	0.025	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4-Dimethylphenol	0.046	U	0.39	0.046	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,4-Dinitrotoluene	0.042	U	0.078	0.042	mg/Kg	✱	11/01/23 10:14	1	MDJ
2,6-Dinitrotoluene	0.028	U	0.078	0.028	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Chloronaphthalene	0.018	U	0.39	0.018	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Chlorophenol	0.014	U	0.39	0.014	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Methylnaphthalene	0.011	U	0.39	0.011	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Methylphenol	0.014	U	0.39	0.014	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Nitroaniline	0.029	U	0.39	0.029	mg/Kg	✱	11/01/23 10:14	1	MDJ
2-Nitrophenol	0.039	U	0.39	0.039	mg/Kg	✱	11/01/23 10:14	1	MDJ
3,3'-Dichlorobenzidine	0.058	U	0.16	0.058	mg/Kg	✱	11/01/23 10:14	1	MDJ
3-Nitroaniline	0.092	U	0.39	0.092	mg/Kg	✱	11/01/23 10:14	1	MDJ
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Bromophenyl phenyl ether	0.015	U	0.39	0.015	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Chloro-3-methylphenol	0.022	U	0.39	0.022	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Chloroaniline	0.069	U	0.39	0.069	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Chlorophenyl phenyl ether	0.014	U	0.39	0.014	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Methylphenol	0.024	U	0.39	0.024	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Nitroaniline	0.044	U	0.39	0.044	mg/Kg	✱	11/01/23 10:14	1	MDJ
4-Nitrophenol	0.063	U	0.78	0.063	mg/Kg	✱	11/01/23 10:14	1	MDJ
Acenaphthene	0.011	U	0.39	0.011	mg/Kg	✱	11/01/23 10:14	1	MDJ
Acenaphthylene	0.011	U	0.39	0.011	mg/Kg	✱	11/01/23 10:14	1	MDJ
Acetophenone	0.019	U	0.39	0.019	mg/Kg	✱	11/01/23 10:14	1	MDJ
Anthracene	0.012	U	0.39	0.012	mg/Kg	✱	11/01/23 10:14	1	MDJ
Atrazine	0.023	U	0.16	0.023	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzaldehyde	0.064	U J	0.39	0.064	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzo[a]anthracene	0.049		0.039	0.029	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzo[a]pyrene	0.057		0.039	0.010	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzo[b]fluoranthene	0.086		0.039	0.010	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzo[g,h,i]perylene	0.043	J	0.39	0.011	mg/Kg	✱	11/01/23 10:14	1	MDJ
Benzo[k]fluoranthene	0.030	J	0.039	0.0076	mg/Kg	✱	11/01/23 10:14	1	MDJ
Bis(2-chloroethoxy)methane	0.030	U	0.39	0.030	mg/Kg	✱	11/01/23 10:14	1	MDJ
Bis(2-chloroethyl)ether	0.013	U	0.039	0.013	mg/Kg	✱	11/01/23 10:14	1	MDJ
Bis(2-ethylhexyl) phthalate	0.020	U	0.39	0.020	mg/Kg	✱	11/01/23 10:14	1	MDJ
Butyl benzyl phthalate	0.018	U	0.39	0.018	mg/Kg	✱	11/01/23 10:14	1	MDJ
Caprolactam	0.060	U	0.39	0.060	mg/Kg	✱	11/01/23 10:14	1	MDJ
Carbazole	0.015	U	0.39	0.015	mg/Kg	✱	11/01/23 10:14	1	MDJ
Chrysene	0.066	J	0.39	0.016	mg/Kg	✱	11/01/23 10:14	1	MDJ
Dibenz(a,h)anthracene	0.017	U	0.039	0.017	mg/Kg	✱	11/01/23 10:14	1	MDJ
Dibenzofuran	0.013	U	0.39	0.013	mg/Kg	✱	11/01/23 10:14	1	MDJ
Diethyl phthalate	0.012	U	0.39	0.012	mg/Kg	✱	11/01/23 10:14	1	MDJ
Dimethyl phthalate	0.088	U	0.39	0.088	mg/Kg	✱	11/01/23 10:14	1	MDJ
Di-n-butyl phthalate	0.015	U	0.39	0.015	mg/Kg	✱	11/01/23 10:14	1	MDJ
Di-n-octyl phthalate	0.020	U	0.39	0.020	mg/Kg	✱	11/01/23 10:14	1	MDJ
Fluoranthene	0.078	J	0.39	0.014	mg/Kg	✱	11/01/23 10:14	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (0.0-2.0)

Lab Sample ID: 460-291365-5

Date Collected: 10/27/23 08:19

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 85.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluorene	0.011	U	0.39	0.011	mg/Kg	✱	11/01/23 10:14	1	MDJ
Hexachlorobenzene	0.018	U	0.039	0.018	mg/Kg	✱	11/01/23 10:14	1	MDJ
Hexachlorobutadiene	0.0082	U	0.078	0.0082	mg/Kg	✱	11/01/23 10:14	1	MDJ
Hexachlorocyclopentadiene	~~0.034~~	~~U *~~	~~0.39~~	~~0.034~~	~~mg/Kg~~	~~✱~~	~~11/01/23 10:14~~	1	MDJ
Hexachloroethane	0.013	U	0.039	0.013	mg/Kg	✱	11/01/23 10:14	1	MDJ
Indeno[1,2,3-cd]pyrene	0.047		0.039	0.015	mg/Kg	✱	11/01/23 10:14	1	MDJ
Isophorone	0.11	U	0.16	0.11	mg/Kg	✱	11/01/23 10:14	1	MDJ
Naphthalene	0.0067	U	0.39	0.0067	mg/Kg	✱	11/01/23 10:14	1	MDJ
Nitrobenzene	0.021	U	0.039	0.021	mg/Kg	✱	11/01/23 10:14	1	MDJ
N-Nitrosodi-n-propylamine	0.028	U	0.039	0.028	mg/Kg	✱	11/01/23 10:14	1	MDJ
N-Nitrosodiphenylamine	0.032	U	0.39	0.032	mg/Kg	✱	11/01/23 10:14	1	MDJ
Pentachlorophenol	0.079	U J	0.31	0.079	mg/Kg	✱	11/01/23 10:14	1	MDJ
Phenanthrene	0.034	J	0.39	0.016	mg/Kg	✱	11/01/23 10:14	1	MDJ
Phenol	0.014	U	0.39	0.014	mg/Kg	✱	11/01/23 10:14	1	MDJ
Pyrene	0.077	J	0.39	0.0096	mg/Kg	✱	11/01/23 10:14	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
n-Hexadecanoic acid	0.58	J N	mg/Kg	✱	8.93	57-10-3	11/01/23 10:14	1	MDJ
Oleic Acid	0.42	J N	mg/Kg	✱	9.63	112-80-1	11/01/23 10:14	1	MDJ
Octadecanoic acid	0.53	J N	mg/Kg	✱	9.69	57-11-4	11/01/23 10:14	1	MDJ
Tritetracontane	0.32	J N	mg/Kg	✱	10.91	7098-21-7	11/01/23 10:14	1	MDJ
Ethanol, 2-(hexadecyloxy)-	1.5	J N	mg/Kg	✱	11.72	2136-71-2	11/01/23 10:14	1	MDJ
Unknown	1.7	J N	mg/Kg	✱	12.60	N/A	11/01/23 10:14	1	MDJ
Oxirane, heptadecyl-	2.2	J N	mg/Kg	✱	13.27	67860-04-2	11/01/23 10:14	1	MDJ
Docosane, 9-butyl-	2.0	J N	mg/Kg	✱	13.53	55282-14-9	11/01/23 10:14	1	MDJ
1-Docosene	1.9	J N	mg/Kg	✱	13.57	1599-67-3	11/01/23 10:14	1	MDJ
Nonadecane	0.59	J N	mg/Kg	✱	14.54	629-92-5	11/01/23 10:14	1	MDJ
.gamma.-Sitosterol	1.5	J N	mg/Kg	✱	14.77	83-47-6	11/01/23 10:14	1	MDJ
Unknown	0.40	J N	mg/Kg	✱	15.07	N/A	11/01/23 10:14	1	MDJ
1,19-Eicosadiene	0.82	J N	mg/Kg	✱	15.50	14811-95-1	11/01/23 10:14	1	MDJ
Stigmast-4-en-3-one	0.78	J N	mg/Kg	✱	15.59	1058-61-3	11/01/23 10:14	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	66		24 - 137	11/01/23 10:14	1	MDJ
2-Fluorobiphenyl	84		48 - 120	11/01/23 10:14	1	MDJ
2-Fluorophenol (Surr)	80		31 - 120	11/01/23 10:14	1	MDJ
Nitrobenzene-d5 (Surr)	92		38 - 120	11/01/23 10:14	1	MDJ
Phenol-d5 (Surr)	88		39 - 120	11/01/23 10:14	1	MDJ
Terphenyl-d14 (Surr)	90		25 - 126	11/01/23 10:14	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	5900		22.4	6.1	mg/Kg	✱	11/09/23 20:46	1	CDC
Antimony	3.0	J	1.1	0.16	mg/Kg	✱	11/09/23 20:46	1	CDC
Arsenic	1.4		1.1	0.12	mg/Kg	✱	11/09/23 20:46	1	CDC
Barium	89.1		2.2	0.16	mg/Kg	✱	11/09/23 20:46	1	CDC
Beryllium	0.22	J	0.45	0.064	mg/Kg	✱	11/09/23 20:46	1	CDC
Cadmium	0.42	J	1.1	0.13	mg/Kg	✱	11/09/23 20:46	1	CDC
Calcium	8740	J	112	45.6	mg/Kg	✱	11/09/23 20:46	1	CDC
Chromium	13.3	J	2.2	1.0	mg/Kg	✱	11/09/23 20:46	1	CDC

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (0.0-2.0)

Lab Sample ID: 460-291365-5

Date Collected: 10/27/23 08:19

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cobalt	5.4	J	2.2	0.17	mg/Kg	✱	11/09/23 20:46	1	CDC
Copper	39.5	J	2.2	0.41	mg/Kg	✱	11/09/23 20:46	1	CDC
Iron	12300		67.2	22.6	mg/Kg	✱	11/09/23 20:46	1	CDC
Lead	135	J	0.67	0.22	mg/Kg	✱	11/09/23 20:46	1	CDC
Magnesium	4030	J	112	11.4	mg/Kg	✱	11/09/23 20:46	1	CDC
Manganese	341		4.5	0.45	mg/Kg	✱	11/09/23 20:46	1	CDC
Nickel	13.2	J	2.2	0.53	mg/Kg	✱	11/09/23 20:46	1	CDC
Potassium	2560		112	18.1	mg/Kg	✱	11/09/23 20:46	1	CDC
Selenium	0.35	J	1.4	0.14	mg/Kg	✱	11/09/23 20:46	1	CDC
Silver	1.6		0.45	0.10	mg/Kg	✱	11/09/23 20:46	1	CDC
Sodium	73.8	J	112	51.2	mg/Kg	✱	11/09/23 20:46	1	CDC
Thallium	0.12	J	0.45	0.046	mg/Kg	✱	11/09/23 20:46	1	CDC
Vanadium	17.6	J	2.2	0.23	mg/Kg	✱	11/09/23 20:46	1	CDC
Zinc	124		9.0	3.4	mg/Kg	✱	11/09/23 20:46	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.42	J	0.020	0.0093	mg/Kg	✱	11/10/23 05:46	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.39		0.24	0.13	mg/Kg	✱	11/05/23 15:09	1	VBG

Client Sample ID: SS-8 (0.0-2.0)

Lab Sample ID: 460-291365-6

Date Collected: 10/27/23 08:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00037	U	0.0016	0.00037	mg/Kg	✱	11/04/23 03:56	1	AAT
1,1,2,2-Tetrachloroethane	0.00034	U	0.0016	0.00034	mg/Kg	✱	11/04/23 03:56	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00047	U	0.0016	0.00047	mg/Kg	✱	11/04/23 03:56	1	AAT
1,1,2-Trichloroethane	0.00028	U J	0.0016	0.00028	mg/Kg	✱	11/04/23 03:56	1	AAT
1,1-Dichloroethane	0.00032	U	0.0016	0.00032	mg/Kg	✱	11/04/23 03:56	1	AAT
1,1-Dichloroethene	0.00035	U	0.0016	0.00035	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2,3-Trichlorobenzene	0.00028	U	0.0016	0.00028	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2,4-Trichlorobenzene	0.00056	U	0.0016	0.00056	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2-Dibromo-3-Chloropropane	0.00072	U	0.0016	0.00072	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2-Dichlorobenzene	0.00057	U	0.0016	0.00057	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2-Dichloroethane	0.00047	U	0.0016	0.00047	mg/Kg	✱	11/04/23 03:56	1	AAT
1,2-Dichloropropane	0.00067	U	0.0016	0.00067	mg/Kg	✱	11/04/23 03:56	1	AAT
1,3-Dichlorobenzene	0.00057	U	0.0016	0.00057	mg/Kg	✱	11/04/23 03:56	1	AAT
1,4-Dichlorobenzene	0.00035	U	0.0016	0.00035	mg/Kg	✱	11/04/23 03:56	1	AAT
1,4-Dioxane	0.014	U	0.16	0.014	mg/Kg	✱	11/04/23 03:56	1	AAT
2-Butanone (MEK)	0.011		0.0079	0.00058	mg/Kg	✱	11/04/23 03:56	1	AAT
2-Hexanone	0.0027	U	0.0079	0.0027	mg/Kg	✱	11/04/23 03:56	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0024	U	0.0079	0.0024	mg/Kg	✱	11/04/23 03:56	1	AAT
Acetone	0.12		0.0094	0.0090	mg/Kg	✱	11/04/23 03:56	1	AAT
Benzene	0.00041	U	0.0016	0.00041	mg/Kg	✱	11/04/23 03:56	1	AAT
Bromoform	0.00067	U	0.0016	0.00067	mg/Kg	✱	11/04/23 03:56	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (0.0-2.0)

Lab Sample ID: 460-291365-6

Date Collected: 10/27/23 08:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bromomethane	0.0016	U	0.0031	0.0016	mg/Kg	☼	11/04/23 03:56	1	AAT
Carbon disulfide	0.00042	U J	0.0016	0.00042	mg/Kg	☼	11/04/23 03:56	1	AAT
Carbon tetrachloride	0.00061	U	0.0016	0.00061	mg/Kg	☼	11/04/23 03:56	1	AAT
Chlorobenzene	0.00028	U	0.0016	0.00028	mg/Kg	☼	11/04/23 03:56	1	AAT
Chlorobromomethane	0.00044	U	0.0016	0.00044	mg/Kg	☼	11/04/23 03:56	1	AAT
Chlorodibromomethane	0.00031	U	0.0016	0.00031	mg/Kg	☼	11/04/23 03:56	1	AAT
Chloroethane	0.00082	U	0.0016	0.00082	mg/Kg	☼	11/04/23 03:56	1	AAT
Chloroform	0.0015	U	0.0016	0.0015	mg/Kg	☼	11/04/23 03:56	1	AAT
Chloromethane	0.00068	U	0.0016	0.00068	mg/Kg	☼	11/04/23 03:56	1	AAT
cis-1,2-Dichloroethene	0.00056	U	0.0016	0.00056	mg/Kg	☼	11/04/23 03:56	1	AAT
cis-1,3-Dichloropropene	0.00043	U	0.0016	0.00043	mg/Kg	☼	11/04/23 03:56	1	AAT
Cyclohexane	0.00035	U	0.0016	0.00035	mg/Kg	☼	11/04/23 03:56	1	AAT
Dichlorobromomethane	0.00040	U	0.0016	0.00040	mg/Kg	☼	11/04/23 03:56	1	AAT
Dichlorodifluoromethane	0.00053	U	0.0016	0.00053	mg/Kg	☼	11/04/23 03:56	1	AAT
Ethylbenzene	0.00031	U	0.0016	0.00031	mg/Kg	☼	11/04/23 03:56	1	AAT
Ethylene Dibromide	0.00028	U	0.0016	0.00028	mg/Kg	☼	11/04/23 03:56	1	AAT
Isopropylbenzene	0.00045	U	0.0016	0.00045	mg/Kg	☼	11/04/23 03:56	1	AAT
Methyl acetate	0.0068	U	0.0079	0.0068	mg/Kg	☼	11/04/23 03:56	1	AAT
Methyl tert-butyl ether	0.00081	U	0.0016	0.00081	mg/Kg	☼	11/04/23 03:56	1	AAT
Methylcyclohexane	0.00079	U	0.0016	0.00079	mg/Kg	☼	11/04/23 03:56	1	AAT
Methylene Chloride	0.0018	U	0.0031	0.0018	mg/Kg	☼	11/04/23 03:56	1	AAT
m-Xylene & p-Xylene	0.00027	U	0.0016	0.00027	mg/Kg	☼	11/04/23 03:56	1	AAT
o-Xylene	0.00031	U	0.0016	0.00031	mg/Kg	☼	11/04/23 03:56	1	AAT
Styrene	0.00044	U	0.0016	0.00044	mg/Kg	☼	11/04/23 03:56	1	AAT
Tetrachloroethene	0.00048	U	0.0016	0.00048	mg/Kg	☼	11/04/23 03:56	1	AAT
Toluene	0.00037	U	0.0016	0.00037	mg/Kg	☼	11/04/23 03:56	1	AAT
trans-1,2-Dichloroethene	0.00039	U	0.0016	0.00039	mg/Kg	☼	11/04/23 03:56	1	AAT
trans-1,3-Dichloropropene	0.00042	U	0.0016	0.00042	mg/Kg	☼	11/04/23 03:56	1	AAT
Trichloroethene	0.00050	U	0.0016	0.00050	mg/Kg	☼	11/04/23 03:56	1	AAT
Trichlorofluoromethane	0.00064	U	0.0016	0.00064	mg/Kg	☼	11/04/23 03:56	1	AAT
Vinyl chloride	0.00086	U	0.0016	0.00086	mg/Kg	☼	11/04/23 03:56	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.0085	J N	mg/Kg	☼	2.13	75-18-3	11/04/23 03:56	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		72 - 138	11/04/23 03:56	1	AAT
4-Bromofluorobenzene	98		63 - 139	11/04/23 03:56	1	AAT
Dibromofluoromethane (Surr)	103		54 - 150	11/04/23 03:56	1	AAT
Toluene-d8 (Surr)	99		71 - 126	11/04/23 03:56	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 10:37	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	11/01/23 10:37	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.34	0.020	mg/Kg	☼	11/01/23 10:37	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☼	11/01/23 10:37	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	11/01/23 10:37	1	MDJ
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	11/01/23 10:37	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	11/01/23 10:37	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (0.0-2.0)

Lab Sample ID: 460-291365-6

Date Collected: 10/27/23 08:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	✱	11/01/23 10:37	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	✱	11/01/23 10:37	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.069	0.037	mg/Kg	✱	11/01/23 10:37	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.069	0.025	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Methylnaphthalene	0.0096	U	0.34	0.0096	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 10:37	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 10:37	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	✱	11/01/23 10:37	1	MDJ
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	✱	11/01/23 10:37	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	✱	11/01/23 10:37	1	MDJ
4-Nitrophenol	0.056	U	0.69	0.056	mg/Kg	✱	11/01/23 10:37	1	MDJ
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	✱	11/01/23 10:37	1	MDJ
Acenaphthylene	0.0098	U	0.34	0.0098	mg/Kg	✱	11/01/23 10:37	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	✱	11/01/23 10:37	1	MDJ
Anthracene	0.010	U	0.34	0.010	mg/Kg	✱	11/01/23 10:37	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzaldehyde	0.057	U J	0.34	0.057	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzo[a]anthracene	0.047		0.034	0.026	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzo[a]pyrene	0.050		0.034	0.0091	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzo[b]fluoranthene	0.082		0.034	0.0089	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzo[g,h,i]perylene	0.037	J	0.34	0.010	mg/Kg	✱	11/01/23 10:37	1	MDJ
Benzo[k]fluoranthene	0.028	J	0.034	0.0067	mg/Kg	✱	11/01/23 10:37	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	✱	11/01/23 10:37	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 10:37	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 10:37	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 10:37	1	MDJ
Caprolactam	0.053	U	0.34	0.053	mg/Kg	✱	11/01/23 10:37	1	MDJ
Carbazole	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 10:37	1	MDJ
Chrysene	0.061	J	0.34	0.014	mg/Kg	✱	11/01/23 10:37	1	MDJ
Dibenz(a,h)anthracene	0.015	J	0.034	0.015	mg/Kg	✱	11/01/23 10:37	1	MDJ
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 10:37	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 10:37	1	MDJ
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	✱	11/01/23 10:37	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 10:37	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 10:37	1	MDJ
Fluoranthene	0.074	J	0.34	0.012	mg/Kg	✱	11/01/23 10:37	1	MDJ
Fluorene	0.010	U	0.34	0.010	mg/Kg	✱	11/01/23 10:37	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	✱	11/01/23 10:37	1	MDJ
Hexachlorobutadiene	0.0073	U	0.069	0.0073	mg/Kg	✱	11/01/23 10:37	1	MDJ
Hexachlorocyclopentadiene	~~R 0.030~~	~~U *~~	~~0.34~~	~~0.030~~	~~mg/Kg~~	~~✱~~	~~11/01/23 10:37~~	~~1~~	~~MDJ~~

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (0.0-2.0)

Lab Sample ID: 460-291365-6

Date Collected: 10/27/23 08:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.6

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	11/01/23 10:37	1	MDJ
Indeno[1,2,3-cd]pyrene	0.044		0.034	0.013	mg/Kg	☼	11/01/23 10:37	1	MDJ
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	11/01/23 10:37	1	MDJ
Naphthalene	0.0059	U	0.34	0.0059	mg/Kg	☼	11/01/23 10:37	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	11/01/23 10:37	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	11/01/23 10:37	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	11/01/23 10:37	1	MDJ
Pentachlorophenol	0.070	U J	0.28	0.070	mg/Kg	☼	11/01/23 10:37	1	MDJ
Phenanthrene	0.037	J	0.34	0.014	mg/Kg	☼	11/01/23 10:37	1	MDJ
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	11/01/23 10:37	1	MDJ
Pyrene	0.072	J	0.34	0.0085	mg/Kg	☼	11/01/23 10:37	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Hexadecenoic acid, Z-11-	0.37	J N	mg/Kg	☼	8.89	2416-20-8	11/01/23 10:37	1	MDJ
n-Hexadecanoic acid	0.83	J N	mg/Kg	☼	8.93	57-10-3	11/01/23 10:37	1	MDJ
6-Octadecenoic acid, (Z)-	0.73	J N	mg/Kg	☼	9.63	593-39-5	11/01/23 10:37	1	MDJ
Unknown	0.30	J N	mg/Kg	☼	9.69	N/A	11/01/23 10:37	1	MDJ
Unknown	0.46	J N	mg/Kg	☼	10.91	N/A	11/01/23 10:37	1	MDJ
Octadecanoic acid	0.31	J N	mg/Kg	☼	11.17	57-11-4	11/01/23 10:37	1	MDJ
1,19-Eicosadiene	0.45	J N	mg/Kg	☼	11.46	14811-95-1	11/01/23 10:37	1	MDJ
17-Pentatriacontene	3.3	J N	mg/Kg	☼	11.72	6971-40-0	11/01/23 10:37	1	MDJ
Tetracosanoic acid	0.51	J N	mg/Kg	☼	12.02	557-59-5	11/01/23 10:37	1	MDJ
Heptadecane	5.9	J N	mg/Kg	☼	12.60	629-78-7	11/01/23 10:37	1	MDJ
Oxirane, heptadecyl-	2.9	J N	mg/Kg	☼	13.27	67860-04-2	11/01/23 10:37	1	MDJ
Heptadecane, 9-octyl-	3.4	J N	mg/Kg	☼	13.53	7225-64-1	11/01/23 10:37	1	MDJ
1-Docosene	1.5	J N	mg/Kg	☼	13.57	1599-67-3	11/01/23 10:37	1	MDJ
Vitamin E	0.28	J N	mg/Kg	☼	13.72	10191-41-0	11/01/23 10:37	1	MDJ
Octadecanal	0.46	J N	mg/Kg	☼	13.76	638-66-4	11/01/23 10:37	1	MDJ
.gamma.-Sitosterol	1.2	J N	mg/Kg	☼	14.76	83-47-6	11/01/23 10:37	1	MDJ
Oxirane, hexadecyl-	1.5	J N	mg/Kg	☼	15.50	7390-81-0	11/01/23 10:37	1	MDJ
Stigmast-4-en-3-one	0.92	J N	mg/Kg	☼	15.60	1058-61-3	11/01/23 10:37	1	MDJ
1-Hexadecanesulfonyl chloride	0.40	J N	mg/Kg	☼	15.98	38775-38-1	11/01/23 10:37	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	65		24 - 137	11/01/23 10:37	1	MDJ
2-Fluorobiphenyl	83		48 - 120	11/01/23 10:37	1	MDJ
2-Fluorophenol (Surr)	79		31 - 120	11/01/23 10:37	1	MDJ
Nitrobenzene-d5 (Surr)	92		38 - 120	11/01/23 10:37	1	MDJ
Phenol-d5 (Surr)	88		39 - 120	11/01/23 10:37	1	MDJ
Terphenyl-d14 (Surr)	86		25 - 126	11/01/23 10:37	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	5880		18.8	5.2	mg/Kg	☼	11/09/23 20:49	1	CDC
Antimony	2.9	J	0.94	0.14	mg/Kg	☼	11/09/23 20:49	1	CDC
Arsenic	2.6		0.94	0.097	mg/Kg	☼	11/09/23 20:49	1	CDC
Barium	103		1.9	0.14	mg/Kg	☼	11/09/23 20:49	1	CDC
Beryllium	0.23	J	0.38	0.054	mg/Kg	☼	11/09/23 20:49	1	CDC
Cadmium	0.58	J	0.94	0.11	mg/Kg	☼	11/09/23 20:49	1	CDC
Calcium	8560	J	94.1	38.3	mg/Kg	☼	11/09/23 20:49	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (0.0-2.0)

Lab Sample ID: 460-291365-6

Date Collected: 10/27/23 08:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium	13.0	J	1.9	0.85	mg/Kg	☆	11/09/23 20:49	1	CDC
Cobalt	5.4	J	1.9	0.14	mg/Kg	☆	11/09/23 20:49	1	CDC
Copper	37.6	J	1.9	0.35	mg/Kg	☆	11/09/23 20:49	1	CDC
Iron	11900		56.5	19.0	mg/Kg	☆	11/09/23 20:49	1	CDC
Lead	694	J	0.56	0.19	mg/Kg	☆	11/09/23 20:49	1	CDC
Magnesium	4100	J	94.1	9.6	mg/Kg	☆	11/09/23 20:49	1	CDC
Manganese	605		3.8	0.38	mg/Kg	☆	11/09/23 20:49	1	CDC
Nickel	13.6	J	1.9	0.44	mg/Kg	☆	11/09/23 20:49	1	CDC
Potassium	2680		94.1	15.2	mg/Kg	☆	11/09/23 20:49	1	CDC
Selenium	0.38	J	1.2	0.12	mg/Kg	☆	11/09/23 20:49	1	CDC
Silver	1.3		0.38	0.084	mg/Kg	☆	11/09/23 20:49	1	CDC
Sodium	89.0	J	94.1	43.0	mg/Kg	☆	11/09/23 20:49	1	CDC
Thallium	0.13	J	0.38	0.039	mg/Kg	☆	11/09/23 20:49	1	CDC
Vanadium	18.4	J	1.9	0.19	mg/Kg	☆	11/09/23 20:49	1	CDC
Zinc	136		7.5	2.9	mg/Kg	☆	11/09/23 20:49	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.17	J	0.018	0.0083	mg/Kg	☆	11/10/23 05:48	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.72		0.25	0.14	mg/Kg	☆	11/05/23 15:10	1	VBG

Client Sample ID: SS-8 (12.0-18.0)

Lab Sample ID: 460-291365-7

Date Collected: 10/27/23 08:12

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:20	1	AAT
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 04:20	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 04:20	1	AAT
1,1,2-Trichloroethane	0.00018	U J	0.0010	0.00018	mg/Kg	☆	11/04/23 04:20	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 04:20	1	AAT
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 04:20	1	AAT
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☆	11/04/23 04:20	1	AAT
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:20	1	AAT
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:20	1	AAT
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg	☆	11/04/23 04:20	1	AAT
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☆	11/04/23 04:20	1	AAT
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg	☆	11/04/23 04:20	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg	☆	11/04/23 04:20	1	AAT
Acetone	0.0065		0.0060	0.0057	mg/Kg	☆	11/04/23 04:20	1	AAT
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 04:20	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (12.0-18.0)

Lab Sample ID: 460-291365-7

Date Collected: 10/27/23 08:12

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☼	11/04/23 04:20	1	AAT
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☼	11/04/23 04:20	1	AAT
Carbon disulfide	0.00027	U J	0.0010	0.00027	mg/Kg	☼	11/04/23 04:20	1	AAT
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☼	11/04/23 04:20	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	11/04/23 04:20	1	AAT
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg	☼	11/04/23 04:20	1	AAT
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	11/04/23 04:20	1	AAT
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☼	11/04/23 04:20	1	AAT
Chloroform	0.00098	U	0.0010	0.00098	mg/Kg	☼	11/04/23 04:20	1	AAT
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg	☼	11/04/23 04:20	1	AAT
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☼	11/04/23 04:20	1	AAT
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	11/04/23 04:20	1	AAT
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☼	11/04/23 04:20	1	AAT
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	11/04/23 04:20	1	AAT
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☼	11/04/23 04:20	1	AAT
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	11/04/23 04:20	1	AAT
Ethylene Dibromide	0.00018	U	0.0010	0.00018	mg/Kg	☼	11/04/23 04:20	1	AAT
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	11/04/23 04:20	1	AAT
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg	☼	11/04/23 04:20	1	AAT
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	☼	11/04/23 04:20	1	AAT
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg	☼	11/04/23 04:20	1	AAT
Methylene Chloride	0.0012	U	0.0020	0.0012	mg/Kg	☼	11/04/23 04:20	1	AAT
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg	☼	11/04/23 04:20	1	AAT
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	☼	11/04/23 04:20	1	AAT
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	11/04/23 04:20	1	AAT
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	11/04/23 04:20	1	AAT
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	11/04/23 04:20	1	AAT
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	11/04/23 04:20	1	AAT
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	11/04/23 04:20	1	AAT
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	11/04/23 04:20	1	AAT
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg	☼	11/04/23 04:20	1	AAT
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg	☼	11/04/23 04:20	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 04:20	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		72 - 138	11/04/23 04:20	1	AAT
4-Bromofluorobenzene	102		63 - 139	11/04/23 04:20	1	AAT
Dibromofluoromethane (Surr)	109		54 - 150	11/04/23 04:20	1	AAT
Toluene-d8 (Surr)	105		71 - 126	11/04/23 04:20	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 11:00	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 11:00	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	☼	11/01/23 11:00	1	MDJ
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg	☼	11/01/23 11:00	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 11:00	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	11/01/23 11:00	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (12.0-18.0)

Lab Sample ID: 460-291365-7

Date Collected: 10/27/23 08:12

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	11/01/23 11:00	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 11:00	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 11:00	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	✱	11/01/23 11:00	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	✱	11/01/23 11:00	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	✱	11/01/23 11:00	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	✱	11/01/23 11:00	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 11:00	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	11/01/23 11:00	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	✱	11/01/23 11:00	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 11:00	1	MDJ
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 11:00	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 11:00	1	MDJ
Anthracene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 11:00	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzo[a]anthracene	0.034		0.033	0.025	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzo[a]pyrene	0.038		0.033	0.0088	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzo[b]fluoranthene	0.048		0.033	0.0086	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzo[g,h,i]perylene	0.025	J	0.33	0.0098	mg/Kg	✱	11/01/23 11:00	1	MDJ
Benzo[k]fluoranthene	0.018	J	0.033	0.0065	mg/Kg	✱	11/01/23 11:00	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 11:00	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 11:00	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 11:00	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 11:00	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 11:00	1	MDJ
Chrysene	0.033	J	0.33	0.014	mg/Kg	✱	11/01/23 11:00	1	MDJ
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	✱	11/01/23 11:00	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 11:00	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 11:00	1	MDJ
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	✱	11/01/23 11:00	1	MDJ
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 11:00	1	MDJ
Fluoranthene	0.032	J	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	✱	11/01/23 11:00	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 11:00	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	11/01/23 11:00	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (12.0-18.0)

Lab Sample ID: 460-291365-7

Date Collected: 10/27/23 08:12

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	11/01/23 11:00	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	11/01/23 11:00	1	MDJ
Indeno[1,2,3-cd]pyrene	0.027	J	0.033	0.013	mg/Kg	✱	11/01/23 11:00	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	✱	11/01/23 11:00	1	MDJ
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	✱	11/01/23 11:00	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	✱	11/01/23 11:00	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	11/01/23 11:00	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	✱	11/01/23 11:00	1	MDJ
Pentachlorophenol	0.068	U J	0.27	0.068	mg/Kg	✱	11/01/23 11:00	1	MDJ
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	✱	11/01/23 11:00	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:00	1	MDJ
Pyrene	0.041	J	0.33	0.0083	mg/Kg	✱	11/01/23 11:00	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
n-Hexadecanoic acid	0.29	J N	mg/Kg	✱	8.92	57-10-3	11/01/23 11:00	1	MDJ
Ethanol, 2-(tetradecyloxy)-	0.38	J N	mg/Kg	✱	11.72	2136-70-1	11/01/23 11:00	1	MDJ
Eicosane	0.37	J N	mg/Kg	✱	12.59	112-95-8	11/01/23 11:00	1	MDJ
Oxirane, hexadecyl-	0.34	J N	mg/Kg	✱	13.27	7390-81-0	11/01/23 11:00	1	MDJ
Nonadecane	0.44	J N	mg/Kg	✱	13.53	629-92-5	11/01/23 11:00	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	71		24 - 137	11/01/23 11:00	1	MDJ
2-Fluorobiphenyl	91		48 - 120	11/01/23 11:00	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	11/01/23 11:00	1	MDJ
Nitrobenzene-d5 (Surr)	99		38 - 120	11/01/23 11:00	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	11/01/23 11:00	1	MDJ
Terphenyl-d14 (Surr)	95		25 - 126	11/01/23 11:00	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	11200		18.7	5.1	mg/Kg	✱	11/09/23 20:51	1	CDC
Antimony	0.41	J	0.93	0.14	mg/Kg	✱	11/09/23 20:51	1	CDC
Arsenic	1.9		0.93	0.096	mg/Kg	✱	11/09/23 20:51	1	CDC
Barium	100		1.9	0.14	mg/Kg	✱	11/09/23 20:51	1	CDC
Beryllium	0.43		0.37	0.053	mg/Kg	✱	11/09/23 20:51	1	CDC
Cadmium	0.20	J	0.93	0.11	mg/Kg	✱	11/09/23 20:51	1	CDC
Calcium	4740	J	93.4	38.0	mg/Kg	✱	11/09/23 20:51	1	CDC
Chromium	22.3	J	1.9	0.85	mg/Kg	✱	11/09/23 20:51	1	CDC
Cobalt	7.9	J	1.9	0.14	mg/Kg	✱	11/09/23 20:51	1	CDC
Copper	27.1	J	1.9	0.34	mg/Kg	✱	11/09/23 20:51	1	CDC
Iron	25400		56.0	18.9	mg/Kg	✱	11/09/23 20:51	1	CDC
Lead	73.0	J	0.56	0.19	mg/Kg	✱	11/09/23 20:51	1	CDC
Magnesium	7540	J	93.4	9.5	mg/Kg	✱	11/09/23 20:51	1	CDC
Manganese	331		3.7	0.38	mg/Kg	✱	11/09/23 20:51	1	CDC
Nickel	16.6	J	1.9	0.44	mg/Kg	✱	11/09/23 20:51	1	CDC
Potassium	6090		93.4	15.1	mg/Kg	✱	11/09/23 20:51	1	CDC
Selenium	0.17	J	1.2	0.12	mg/Kg	✱	11/09/23 20:51	1	CDC
Silver	0.11	J	0.37	0.083	mg/Kg	✱	11/09/23 20:51	1	CDC
Sodium	127		93.4	42.7	mg/Kg	✱	11/09/23 20:51	1	CDC
Thallium	0.26	J	0.37	0.038	mg/Kg	✱	11/09/23 20:51	1	CDC

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (12.0-18.0)

Date Collected: 10/27/23 08:12

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-7

Matrix: Solid

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Vanadium	26.8	J	1.9	0.19	mg/Kg	☆	11/09/23 20:51	1	CDC
Zinc	92.0		7.5	2.8	mg/Kg	☆	11/09/23 20:51	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.097	J	0.017	0.0081	mg/Kg	☆	11/10/23 05:50	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.11	U	0.21	0.11	mg/Kg	☆	11/05/23 15:11	1	VBG

Client Sample ID: SS-7 (0.0-2.0)

Date Collected: 10/27/23 09:56

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-8

Matrix: Solid

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☆	11/04/23 04:43	1	AAT
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☆	11/04/23 04:43	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☆	11/04/23 04:43	1	AAT
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 04:43	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 04:43	1	AAT
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2-Dibromo-3-Chloropropane	0.00047	U	0.0010	0.00047	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 04:43	1	AAT
1,2-Dichloropropane	0.00043	U	0.0010	0.00043	mg/Kg	☆	11/04/23 04:43	1	AAT
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:43	1	AAT
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:43	1	AAT
1,4-Dioxane	0.0094	U	0.10	0.0094	mg/Kg	☆	11/04/23 04:43	1	AAT
2-Butanone (MEK)	0.0064		0.0051	0.00038	mg/Kg	☆	11/04/23 04:43	1	AAT
2-Hexanone	0.0018	U	0.0051	0.0018	mg/Kg	☆	11/04/23 04:43	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0051	0.0016	mg/Kg	☆	11/04/23 04:43	1	AAT
Acetone	0.083		0.0061	0.0059	mg/Kg	☆	11/04/23 04:43	1	AAT
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 04:43	1	AAT
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☆	11/04/23 04:43	1	AAT
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☆	11/04/23 04:43	1	AAT
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 04:43	1	AAT
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☆	11/04/23 04:43	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 04:43	1	AAT
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☆	11/04/23 04:43	1	AAT
Chlorodibromomethane	0.00020	U	0.0010	0.00020	mg/Kg	☆	11/04/23 04:43	1	AAT
Chloroethane	0.00053	U	0.0010	0.00053	mg/Kg	☆	11/04/23 04:43	1	AAT
Chloroform	0.00099	U	0.0010	0.00099	mg/Kg	☆	11/04/23 04:43	1	AAT
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☆	11/04/23 04:43	1	AAT
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☆	11/04/23 04:43	1	AAT
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 04:43	1	AAT
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 04:43	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (0.0-2.0)

Lab Sample ID: 460-291365-8

Date Collected: 10/27/23 09:56

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg	✱	11/04/23 04:43	1	AAT
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	✱	11/04/23 04:43	1	AAT
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	✱	11/04/23 04:43	1	AAT
Ethylene Dibromide	0.00018	U	0.0010	0.00018	mg/Kg	✱	11/04/23 04:43	1	AAT
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	✱	11/04/23 04:43	1	AAT
Methyl acetate	0.0044	U	0.0051	0.0044	mg/Kg	✱	11/04/23 04:43	1	AAT
Methyl tert-butyl ether	0.00052	U	0.0010	0.00052	mg/Kg	✱	11/04/23 04:43	1	AAT
Methylcyclohexane	0.00051	U	0.0010	0.00051	mg/Kg	✱	11/04/23 04:43	1	AAT
Methylene Chloride	0.0012	U	0.0020	0.0012	mg/Kg	✱	11/04/23 04:43	1	AAT
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	✱	11/04/23 04:43	1	AAT
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	✱	11/04/23 04:43	1	AAT
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	✱	11/04/23 04:43	1	AAT
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	✱	11/04/23 04:43	1	AAT
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	✱	11/04/23 04:43	1	AAT
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	✱	11/04/23 04:43	1	AAT
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	✱	11/04/23 04:43	1	AAT
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	✱	11/04/23 04:43	1	AAT
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	✱	11/04/23 04:43	1	AAT
Vinyl chloride	0.00056	U	0.0010	0.00056	mg/Kg	✱	11/04/23 04:43	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/04/23 04:43	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	101		72 - 138	11/04/23 04:43	1	AAT
4-Bromofluorobenzene	101		63 - 139	11/04/23 04:43	1	AAT
Dibromofluoromethane (Surr)	105		54 - 150	11/04/23 04:43	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/04/23 04:43	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 11:22	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 11:22	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 11:22	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	✱	11/01/23 11:22	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 11:22	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (0.0-2.0)

Lab Sample ID: 460-291365-8

Date Collected: 10/27/23 09:56

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	11/01/23 11:22	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 11:22	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 11:22	1	MDJ
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	✱	11/01/23 11:22	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 11:22	1	MDJ
Anthracene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 11:22	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzo[a]pyrene	0.027	J	0.033	0.0089	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzo[b]fluoranthene	0.034	J	0.033	0.0087	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzo[g,h,i]perylene	0.019	J	0.33	0.0099	mg/Kg	✱	11/01/23 11:22	1	MDJ
Benzo[k]fluoranthene	0.015	J	0.033	0.0066	mg/Kg	✱	11/01/23 11:22	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 11:22	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 11:22	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 11:22	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 11:22	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 11:22	1	MDJ
Chrysene	0.027	J	0.33	0.014	mg/Kg	✱	11/01/23 11:22	1	MDJ
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	✱	11/01/23 11:22	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 11:22	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 11:22	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	✱	11/01/23 11:22	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 11:22	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 11:22	1	MDJ
Fluoranthene	0.031	J	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	✱	11/01/23 11:22	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 11:22	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	✱	11/01/23 11:22	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	11/01/23 11:22	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	11/01/23 11:22	1	MDJ
Indeno[1,2,3-cd]pyrene	0.021	J	0.033	0.013	mg/Kg	✱	11/01/23 11:22	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	✱	11/01/23 11:22	1	MDJ
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	✱	11/01/23 11:22	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	✱	11/01/23 11:22	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	11/01/23 11:22	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	✱	11/01/23 11:22	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	✱	11/01/23 11:22	1	MDJ
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	✱	11/01/23 11:22	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 11:22	1	MDJ
Pyrene	0.032	J	0.33	0.0083	mg/Kg	✱	11/01/23 11:22	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (0.0-2.0)

Lab Sample ID: 460-291365-8

Date Collected: 10/27/23 09:56

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Ethanol, 2-(hexadecyloxy)-	0.37	J N	mg/Kg	☼	11.72	2136-71-2	11/01/23 11:22	1	MDJ
Eicosane	0.67	J N	mg/Kg	☼	12.59	112-95-8	11/01/23 11:22	1	MDJ
Unknown	0.43	J N	mg/Kg	☼	13.27	N/A	11/01/23 11:22	1	MDJ
Heptadecane	0.32	J N	mg/Kg	☼	13.53	629-78-7	11/01/23 11:22	1	MDJ
Oxirane, hexadecyl-	0.29	J N	mg/Kg	☼	15.49	7390-81-0	11/01/23 11:22	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	70		24 - 137	11/01/23 11:22	1	MDJ
2-Fluorobiphenyl	89		48 - 120	11/01/23 11:22	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	11/01/23 11:22	1	MDJ
Nitrobenzene-d5 (Surr)	100		38 - 120	11/01/23 11:22	1	MDJ
Phenol-d5 (Surr)	95		39 - 120	11/01/23 11:22	1	MDJ
Terphenyl-d14 (Surr)	91		25 - 126	11/01/23 11:22	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	10900		19.9	5.5	mg/Kg	☼	11/09/23 20:53	1	CDC
Antimony	0.37	J	0.99	0.15	mg/Kg	☼	11/09/23 20:53	1	CDC
Arsenic	1.7		0.99	0.10	mg/Kg	☼	11/09/23 20:53	1	CDC
Barium	144		2.0	0.14	mg/Kg	☼	11/09/23 20:53	1	CDC
Beryllium	0.36	J	0.40	0.057	mg/Kg	☼	11/09/23 20:53	1	CDC
Cadmium	0.23	J	0.99	0.11	mg/Kg	☼	11/09/23 20:53	1	CDC
Calcium	8040	J	99.3	40.4	mg/Kg	☼	11/09/23 20:53	1	CDC
Chromium	22.6	J	2.0	0.90	mg/Kg	☼	11/09/23 20:53	1	CDC
Cobalt	8.1	J	2.0	0.15	mg/Kg	☼	11/09/23 20:53	1	CDC
Copper	36.4	J	2.0	0.37	mg/Kg	☼	11/09/23 20:53	1	CDC
Iron	22200		59.6	20.1	mg/Kg	☼	11/09/23 20:53	1	CDC
Lead	73.0	J	0.60	0.20	mg/Kg	☼	11/09/23 20:53	1	CDC
Magnesium	9420	J	99.3	10.1	mg/Kg	☼	11/09/23 20:53	1	CDC
Manganese	302		4.0	0.40	mg/Kg	☼	11/09/23 20:53	1	CDC
Nickel	16.5	J	2.0	0.47	mg/Kg	☼	11/09/23 20:53	1	CDC
Potassium	5380		99.3	16.1	mg/Kg	☼	11/09/23 20:53	1	CDC
Selenium	0.27	J	1.2	0.13	mg/Kg	☼	11/09/23 20:53	1	CDC
Silver	0.43		0.40	0.088	mg/Kg	☼	11/09/23 20:53	1	CDC
Sodium	151		99.3	45.4	mg/Kg	☼	11/09/23 20:53	1	CDC
Thallium	0.24	J	0.40	0.041	mg/Kg	☼	11/09/23 20:53	1	CDC
Vanadium	32.9	J	2.0	0.20	mg/Kg	☼	11/09/23 20:53	1	CDC
Zinc	100		7.9	3.0	mg/Kg	☼	11/09/23 20:53	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.079	J	0.017	0.0078	mg/Kg	☼	11/10/23 05:52	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.13	J	0.23	0.12	mg/Kg	☼	11/05/23 15:12	1	VBG

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (2.0-12.0)

Lab Sample ID: 460-291365-9

Date Collected: 10/27/23 08:44

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00021	U	0.00092	0.00021	mg/Kg	☆	11/04/23 05:05	1	AAT
1,1,2,2-Tetrachloroethane	0.00020	U	0.00092	0.00020	mg/Kg	☆	11/04/23 05:05	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00092	0.00028	mg/Kg	☆	11/04/23 05:05	1	AAT
1,1,2-Trichloroethane	0.00016	U J	0.00092	0.00016	mg/Kg	☆	11/04/23 05:05	1	AAT
1,1-Dichloroethane	0.00019	U	0.00092	0.00019	mg/Kg	☆	11/04/23 05:05	1	AAT
1,1-Dichloroethene	0.00021	U	0.00092	0.00021	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2,3-Trichlorobenzene	0.00017	U	0.00092	0.00017	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2,4-Trichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2-Dibromo-3-Chloropropane	0.00042	U	0.00092	0.00042	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2-Dichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2-Dichloroethane	0.00027	U	0.00092	0.00027	mg/Kg	☆	11/04/23 05:05	1	AAT
1,2-Dichloropropane	0.00039	U	0.00092	0.00039	mg/Kg	☆	11/04/23 05:05	1	AAT
1,3-Dichlorobenzene	0.00034	U	0.00092	0.00034	mg/Kg	☆	11/04/23 05:05	1	AAT
1,4-Dichlorobenzene	0.00021	U	0.00092	0.00021	mg/Kg	☆	11/04/23 05:05	1	AAT
1,4-Dioxane	0.0085	U	0.092	0.0085	mg/Kg	☆	11/04/23 05:05	1	AAT
2-Butanone (MEK)	0.00034	U	0.0046	0.00034	mg/Kg	☆	11/04/23 05:05	1	AAT
2-Hexanone	0.0016	U	0.0046	0.0016	mg/Kg	☆	11/04/23 05:05	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0046	0.0014	mg/Kg	☆	11/04/23 05:05	1	AAT
Acetone	0.0053	U	0.0055	0.0053	mg/Kg	☆	11/04/23 05:05	1	AAT
Benzene	0.00024	U	0.00092	0.00024	mg/Kg	☆	11/04/23 05:05	1	AAT
Bromoform	0.00039	U	0.00092	0.00039	mg/Kg	☆	11/04/23 05:05	1	AAT
Bromomethane	0.00092	U	0.0018	0.00092	mg/Kg	☆	11/04/23 05:05	1	AAT
Carbon disulfide	0.00025	U J	0.00092	0.00025	mg/Kg	☆	11/04/23 05:05	1	AAT
Carbon tetrachloride	0.00036	U	0.00092	0.00036	mg/Kg	☆	11/04/23 05:05	1	AAT
Chlorobenzene	0.00016	U	0.00092	0.00016	mg/Kg	☆	11/04/23 05:05	1	AAT
Chlorobromomethane	0.00026	U	0.00092	0.00026	mg/Kg	☆	11/04/23 05:05	1	AAT
Chlorodibromomethane	0.00018	U	0.00092	0.00018	mg/Kg	☆	11/04/23 05:05	1	AAT
Chloroethane	0.00048	U	0.00092	0.00048	mg/Kg	☆	11/04/23 05:05	1	AAT
Chloroform	0.00090	U	0.00092	0.00090	mg/Kg	☆	11/04/23 05:05	1	AAT
Chloromethane	0.00040	U	0.00092	0.00040	mg/Kg	☆	11/04/23 05:05	1	AAT
cis-1,2-Dichloroethene	0.00033	U	0.00092	0.00033	mg/Kg	☆	11/04/23 05:05	1	AAT
cis-1,3-Dichloropropene	0.00025	U	0.00092	0.00025	mg/Kg	☆	11/04/23 05:05	1	AAT
Cyclohexane	0.00020	U	0.00092	0.00020	mg/Kg	☆	11/04/23 05:05	1	AAT
Dichlorobromomethane	0.00024	U	0.00092	0.00024	mg/Kg	☆	11/04/23 05:05	1	AAT
Dichlorodifluoromethane	0.00031	U	0.00092	0.00031	mg/Kg	☆	11/04/23 05:05	1	AAT
Ethylbenzene	0.00018	U	0.00092	0.00018	mg/Kg	☆	11/04/23 05:05	1	AAT
Ethylene Dibromide	0.00017	U	0.00092	0.00017	mg/Kg	☆	11/04/23 05:05	1	AAT
Isopropylbenzene	0.00026	U	0.00092	0.00026	mg/Kg	☆	11/04/23 05:05	1	AAT
Methyl acetate	0.0040	U	0.0046	0.0040	mg/Kg	☆	11/04/23 05:05	1	AAT
Methyl tert-butyl ether	0.00047	U	0.00092	0.00047	mg/Kg	☆	11/04/23 05:05	1	AAT
Methylcyclohexane	0.00046	U	0.00092	0.00046	mg/Kg	☆	11/04/23 05:05	1	AAT
Methylene Chloride	0.0011	U	0.0018	0.0011	mg/Kg	☆	11/04/23 05:05	1	AAT
m-Xylene & p-Xylene	0.00016	U	0.00092	0.00016	mg/Kg	☆	11/04/23 05:05	1	AAT
o-Xylene	0.00018	U	0.00092	0.00018	mg/Kg	☆	11/04/23 05:05	1	AAT
Styrene	0.00026	U	0.00092	0.00026	mg/Kg	☆	11/04/23 05:05	1	AAT
Tetrachloroethene	0.00028	U	0.00092	0.00028	mg/Kg	☆	11/04/23 05:05	1	AAT
Toluene	0.00022	U	0.00092	0.00022	mg/Kg	☆	11/04/23 05:05	1	AAT
trans-1,2-Dichloroethene	0.00023	U	0.00092	0.00023	mg/Kg	☆	11/04/23 05:05	1	AAT
trans-1,3-Dichloropropene	0.00025	U	0.00092	0.00025	mg/Kg	☆	11/04/23 05:05	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (2.0-12.0)

Lab Sample ID: 460-291365-9

Date Collected: 10/27/23 08:44

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00030	U	0.00092	0.00030	mg/Kg	☼	11/04/23 05:05	1	AAT
Trichlorofluoromethane	0.00037	U	0.00092	0.00037	mg/Kg	☼	11/04/23 05:05	1	AAT
Vinyl chloride	0.00050	U	0.00092	0.00050	mg/Kg	☼	11/04/23 05:05	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 05:05	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	96		72 - 138	11/04/23 05:05	1	AAT
4-Bromofluorobenzene	93		63 - 139	11/04/23 05:05	1	AAT
Dibromofluoromethane (Surr)	104		54 - 150	11/04/23 05:05	1	AAT
Toluene-d8 (Surr)	97		71 - 126	11/04/23 05:05	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:52	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	11/01/23 12:52	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Methylnaphthalene	0.019	J	0.33	0.0094	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	11/01/23 12:52	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 12:52	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	11/01/23 12:52	1	MDJ
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	11/01/23 12:52	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	11/01/23 12:52	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	11/01/23 12:52	1	MDJ
Acenaphthene	0.012	J	0.33	0.0095	mg/Kg	☼	11/01/23 12:52	1	MDJ
Acenaphthylene	0.18	J	0.33	0.0096	mg/Kg	☼	11/01/23 12:52	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 12:52	1	MDJ
Anthracene	0.16	J	0.33	0.010	mg/Kg	☼	11/01/23 12:52	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	11/01/23 12:52	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	11/01/23 12:52	1	MDJ
Benzo[a]anthracene	0.74		0.033	0.025	mg/Kg	☼	11/01/23 12:52	1	MDJ
Benzo[a]pyrene	0.83		0.033	0.0089	mg/Kg	☼	11/01/23 12:52	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (2.0-12.0)

Lab Sample ID: 460-291365-9

Date Collected: 10/27/23 08:44

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	1.0		0.033	0.0087	mg/Kg	☆	11/01/23 12:52	1	MDJ
Benzo[g,h,i]perylene	0.41		0.33	0.0099	mg/Kg	☆	11/01/23 12:52	1	MDJ
Benzo[k]fluoranthene	0.42		0.033	0.0066	mg/Kg	☆	11/01/23 12:52	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☆	11/01/23 12:52	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☆	11/01/23 12:52	1	MDJ
Bis(2-ethylhexyl) phthalate	0.019	J	0.33	0.018	mg/Kg	☆	11/01/23 12:52	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☆	11/01/23 12:52	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☆	11/01/23 12:52	1	MDJ
Carbazole	0.043	J	0.33	0.013	mg/Kg	☆	11/01/23 12:52	1	MDJ
Chrysene	0.69		0.33	0.014	mg/Kg	☆	11/01/23 12:52	1	MDJ
Dibenz(a,h)anthracene	0.12		0.033	0.015	mg/Kg	☆	11/01/23 12:52	1	MDJ
Dibenzofuran	0.024	J	0.33	0.011	mg/Kg	☆	11/01/23 12:52	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☆	11/01/23 12:52	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☆	11/01/23 12:52	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☆	11/01/23 12:52	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☆	11/01/23 12:52	1	MDJ
Fluoranthene	1.3		0.33	0.012	mg/Kg	☆	11/01/23 12:52	1	MDJ
Fluorene	0.033	J	0.33	0.0098	mg/Kg	☆	11/01/23 12:52	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☆	11/01/23 12:52	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☆	11/01/23 12:52	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	☆	11/01/23 12:52	1	MDJ
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☆	11/01/23 12:52	1	MDJ
Indeno[1,2,3-cd]pyrene	0.48		0.033	0.013	mg/Kg	☆	11/01/23 12:52	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	☆	11/01/23 12:52	1	MDJ
Naphthalene	0.081	J	0.33	0.0058	mg/Kg	☆	11/01/23 12:52	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☆	11/01/23 12:52	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☆	11/01/23 12:52	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☆	11/01/23 12:52	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☆	11/01/23 12:52	1	MDJ
Phenanthrene	0.61		0.33	0.014	mg/Kg	☆	11/01/23 12:52	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☆	11/01/23 12:52	1	MDJ
Pyrene	1.3		0.33	0.0083	mg/Kg	☆	11/01/23 12:52	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Perylene	0.49	J N	mg/Kg	☆	12.66	198-55-0	11/01/23 12:52	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	11/01/23 12:52	1	MDJ
2-Fluorobiphenyl	94		48 - 120	11/01/23 12:52	1	MDJ
2-Fluorophenol (Surr)	91		31 - 120	11/01/23 12:52	1	MDJ
Nitrobenzene-d5 (Surr)	105		38 - 120	11/01/23 12:52	1	MDJ
Phenol-d5 (Surr)	98		39 - 120	11/01/23 12:52	1	MDJ
Terphenyl-d14 (Surr)	92		25 - 126	11/01/23 12:52	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	8490		19.6	5.4	mg/Kg	☆	11/09/23 20:56	1	CDC
Antimony	0.76	J	0.98	0.14	mg/Kg	☆	11/09/23 20:56	1	CDC
Arsenic	4.2		0.98	0.10	mg/Kg	☆	11/09/23 20:56	1	CDC
Barium	76.6		2.0	0.14	mg/Kg	☆	11/09/23 20:56	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (2.0-12.0)

Lab Sample ID: 460-291365-9

Date Collected: 10/27/23 08:44

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Beryllium	0.33	J	0.39	0.056	mg/Kg	✱	11/09/23 20:56	1	CDC
Cadmium	1.1		0.98	0.11	mg/Kg	✱	11/09/23 20:56	1	CDC
Calcium	13000	J	97.8	39.8	mg/Kg	✱	11/09/23 20:56	1	CDC
Chromium	23.3	J	2.0	0.89	mg/Kg	✱	11/09/23 20:56	1	CDC
Cobalt	8.3	J	2.0	0.14	mg/Kg	✱	11/09/23 20:56	1	CDC
Copper	61.1	J	2.0	0.36	mg/Kg	✱	11/09/23 20:56	1	CDC
Iron	58400		293	98.7	mg/Kg	✱	11/10/23 11:26	5	CDC
Lead	81.4	J	0.59	0.20	mg/Kg	✱	11/09/23 20:56	1	CDC
Magnesium	10500	J	97.8	10	mg/Kg	✱	11/09/23 20:56	1	CDC
Manganese	336		3.9	0.39	mg/Kg	✱	11/09/23 20:56	1	CDC
Nickel	18.6	J	2.0	0.46	mg/Kg	✱	11/09/23 20:56	1	CDC
Potassium	2990		97.8	15.8	mg/Kg	✱	11/09/23 20:56	1	CDC
Selenium	0.27	J	1.2	0.13	mg/Kg	✱	11/09/23 20:56	1	CDC
Silver	0.35	J	0.39	0.087	mg/Kg	✱	11/09/23 20:56	1	CDC
Sodium	109		97.8	44.7	mg/Kg	✱	11/09/23 20:56	1	CDC
Thallium	0.17	J	0.39	0.040	mg/Kg	✱	11/09/23 20:56	1	CDC
Vanadium	26.4	J	2.0	0.20	mg/Kg	✱	11/09/23 20:56	1	CDC
Zinc	102		7.8	3.0	mg/Kg	✱	11/09/23 20:56	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.12	J	0.017	0.0081	mg/Kg	✱	11/10/23 05:54	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.74		0.20	0.11	mg/Kg	✱	11/05/23 15:17	1	VBG

Client Sample ID: SS-8 (2.0-12.0)

Lab Sample ID: 460-291365-10

Date Collected: 10/27/23 08:09

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 05:29	1	AAT
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	11/04/23 05:29	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/04/23 05:29	1	AAT
1,1,2-Trichloroethane	0.00019	U J	0.0011	0.00019	mg/Kg	✱	11/04/23 05:29	1	AAT
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 05:29	1	AAT
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2-Dibromo-3-Chloropropane	0.00049	U	0.0011	0.00049	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 05:29	1	AAT
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	✱	11/04/23 05:29	1	AAT
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	✱	11/04/23 05:29	1	AAT
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	✱	11/04/23 05:29	1	AAT
1,4-Dioxane	0.0097	U	0.11	0.0097	mg/Kg	✱	11/04/23 05:29	1	AAT
2-Butanone (MEK)	0.0062		0.0053	0.00039	mg/Kg	✱	11/04/23 05:29	1	AAT
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	✱	11/04/23 05:29	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (2.0-12.0)

Lab Sample ID: 460-291365-10

Date Collected: 10/27/23 08:09

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0053	0.0017	mg/Kg	☼	11/04/23 05:29	1	AAT
Acetone	0.037		0.0064	0.0061	mg/Kg	☼	11/04/23 05:29	1	AAT
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	11/04/23 05:29	1	AAT
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	11/04/23 05:29	1	AAT
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	11/04/23 05:29	1	AAT
Carbon disulfide	0.00028	U J	0.0011	0.00028	mg/Kg	☼	11/04/23 05:29	1	AAT
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	11/04/23 05:29	1	AAT
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	11/04/23 05:29	1	AAT
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	11/04/23 05:29	1	AAT
Chlorodibromomethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	11/04/23 05:29	1	AAT
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	11/04/23 05:29	1	AAT
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	11/04/23 05:29	1	AAT
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	11/04/23 05:29	1	AAT
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	11/04/23 05:29	1	AAT
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	11/04/23 05:29	1	AAT
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	11/04/23 05:29	1	AAT
Dichlorobromomethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	11/04/23 05:29	1	AAT
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	11/04/23 05:29	1	AAT
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	11/04/23 05:29	1	AAT
Ethylene Dibromide	0.00019	U	0.0011	0.00019	mg/Kg	☼	11/04/23 05:29	1	AAT
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	11/04/23 05:29	1	AAT
Methyl acetate	0.0046	U	0.0053	0.0046	mg/Kg	☼	11/04/23 05:29	1	AAT
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	11/04/23 05:29	1	AAT
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	11/04/23 05:29	1	AAT
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	11/04/23 05:29	1	AAT
m-Xylene & p-Xylene	0.00018	U	0.0011	0.00018	mg/Kg	☼	11/04/23 05:29	1	AAT
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	11/04/23 05:29	1	AAT
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	11/04/23 05:29	1	AAT
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	11/04/23 05:29	1	AAT
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	11/04/23 05:29	1	AAT
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	11/04/23 05:29	1	AAT
trans-1,3-Dichloropropene	0.00028	U	0.0011	0.00028	mg/Kg	☼	11/04/23 05:29	1	AAT
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	11/04/23 05:29	1	AAT
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	11/04/23 05:29	1	AAT
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	11/04/23 05:29	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 05:29	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	101		72 - 138	11/04/23 05:29	1	AAT
4-Bromofluorobenzene	99		63 - 139	11/04/23 05:29	1	AAT
Dibromofluoromethane (Surr)	105		54 - 150	11/04/23 05:29	1	AAT
Toluene-d8 (Surr)	100		71 - 126	11/04/23 05:29	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 11:44	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	11/01/23 11:44	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.34	0.020	mg/Kg	☼	11/01/23 11:44	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (2.0-12.0)

Lab Sample ID: 460-291365-10

Date Collected: 10/27/23 08:09

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 11:44	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Methylnaphthalene	0.0094	U	0.34	0.0094	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 11:44	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 11:44	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	✱	11/01/23 11:44	1	MDJ
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	✱	11/01/23 11:44	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	✱	11/01/23 11:44	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 11:44	1	MDJ
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	✱	11/01/23 11:44	1	MDJ
Acenaphthylene	0.0097	U	0.34	0.0097	mg/Kg	✱	11/01/23 11:44	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	✱	11/01/23 11:44	1	MDJ
Anthracene	0.010	U	0.34	0.010	mg/Kg	✱	11/01/23 11:44	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzaldehyde	0.056	U J	0.34	0.056	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzo[a]anthracene	0.025	U	0.034	0.025	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzo[a]pyrene	0.024	J	0.034	0.0090	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzo[b]fluoranthene	0.027	J	0.034	0.0087	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzo[g,h,i]perylene	0.017	J	0.34	0.010	mg/Kg	✱	11/01/23 11:44	1	MDJ
Benzo[k]fluoranthene	0.012	J	0.034	0.0066	mg/Kg	✱	11/01/23 11:44	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 11:44	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 11:44	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 11:44	1	MDJ
Caprolactam	0.053	U	0.34	0.053	mg/Kg	✱	11/01/23 11:44	1	MDJ
Carbazole	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 11:44	1	MDJ
Chrysene	0.020	J	0.34	0.014	mg/Kg	✱	11/01/23 11:44	1	MDJ
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	✱	11/01/23 11:44	1	MDJ
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 11:44	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 11:44	1	MDJ
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	✱	11/01/23 11:44	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 11:44	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 11:44	1	MDJ
Fluoranthene	0.023	J	0.34	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (2.0-12.0)

Lab Sample ID: 460-291365-10

Date Collected: 10/27/23 08:09

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.7

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluorene	0.0099	U	0.34	0.0099	mg/Kg	✱	11/01/23 11:44	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	✱	11/01/23 11:44	1	MDJ
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	✱	11/01/23 11:44	1	MDJ
Hexachlorocyclopentadiene	~~0.030~~	~~U *~~	~~0.34~~	~~0.030~~	~~mg/Kg~~	~~✱~~	~~11/01/23 11:44~~	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ
Indeno[1,2,3-cd]pyrene	0.017	J	0.034	0.013	mg/Kg	✱	11/01/23 11:44	1	MDJ
Isophorone	0.098	U	0.14	0.098	mg/Kg	✱	11/01/23 11:44	1	MDJ
Naphthalene	0.0058	U	0.34	0.0058	mg/Kg	✱	11/01/23 11:44	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	✱	11/01/23 11:44	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	✱	11/01/23 11:44	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	✱	11/01/23 11:44	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	✱	11/01/23 11:44	1	MDJ
Phenanthrene	0.015	J	0.34	0.014	mg/Kg	✱	11/01/23 11:44	1	MDJ
Phenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 11:44	1	MDJ
Pyrene	0.027	J	0.34	0.0084	mg/Kg	✱	11/01/23 11:44	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
n-Hexadecanoic acid	0.33	J N	mg/Kg	✱	8.92	57-10-3	11/01/23 11:44	1	MDJ
Unknown	0.29	J N	mg/Kg	✱	11.72	N/A	11/01/23 11:44	1	MDJ
Nonadecane	0.59	J N	mg/Kg	✱	12.59	629-92-5	11/01/23 11:44	1	MDJ
Heneicosane	0.29	J N	mg/Kg	✱	13.53	629-94-7	11/01/23 11:44	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	67		24 - 137	11/01/23 11:44	1	MDJ
2-Fluorobiphenyl	85		48 - 120	11/01/23 11:44	1	MDJ
2-Fluorophenol (Surr)	81		31 - 120	11/01/23 11:44	1	MDJ
Nitrobenzene-d5 (Surr)	93		38 - 120	11/01/23 11:44	1	MDJ
Phenol-d5 (Surr)	90		39 - 120	11/01/23 11:44	1	MDJ
Terphenyl-d14 (Surr)	89		25 - 126	11/01/23 11:44	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	12300		19.1	5.3	mg/Kg	✱	11/09/23 21:03	1	CDC
Antimony	0.38	J	0.96	0.14	mg/Kg	✱	11/09/23 21:03	1	CDC
Arsenic	1.9		0.96	0.099	mg/Kg	✱	11/09/23 21:03	1	CDC
Barium	136		1.9	0.14	mg/Kg	✱	11/09/23 21:03	1	CDC
Beryllium	0.42		0.38	0.055	mg/Kg	✱	11/09/23 21:03	1	CDC
Cadmium	0.25	J	0.96	0.11	mg/Kg	✱	11/09/23 21:03	1	CDC
Calcium	4730	J	95.7	38.9	mg/Kg	✱	11/09/23 21:03	1	CDC
Chromium	38.5	J	1.9	0.87	mg/Kg	✱	11/09/23 21:03	1	CDC
Cobalt	9.5	J	1.9	0.14	mg/Kg	✱	11/09/23 21:03	1	CDC
Copper	27.3	J	1.9	0.35	mg/Kg	✱	11/09/23 21:03	1	CDC
Iron	25500		57.4	19.3	mg/Kg	✱	11/09/23 21:03	1	CDC
Lead	94.0	J	0.57	0.19	mg/Kg	✱	11/09/23 21:03	1	CDC
Magnesium	8410	J	95.7	9.8	mg/Kg	✱	11/09/23 21:03	1	CDC
Manganese	261		3.8	0.39	mg/Kg	✱	11/09/23 21:03	1	CDC
Nickel	27.8	J	1.9	0.45	mg/Kg	✱	11/09/23 21:03	1	CDC
Potassium	6150		95.7	15.5	mg/Kg	✱	11/09/23 21:03	1	CDC
Selenium	0.28	J	1.2	0.12	mg/Kg	✱	11/09/23 21:03	1	CDC
Silver	0.12	J	0.38	0.085	mg/Kg	✱	11/09/23 21:03	1	CDC

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-8 (2.0-12.0)

Date Collected: 10/27/23 08:09

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-10

Matrix: Solid

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Sodium	156		95.7	43.7	mg/Kg	☆	11/09/23 21:03	1	CDC
Thallium	0.28	J	0.38	0.039	mg/Kg	☆	11/09/23 21:03	1	CDC
Vanadium	34.2	J	1.9	0.20	mg/Kg	☆	11/09/23 21:03	1	CDC
Zinc	105		7.7	2.9	mg/Kg	☆	11/09/23 21:03	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.063	J	0.016	0.0073	mg/Kg	☆	11/10/23 05:55	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.10	U	0.19	0.10	mg/Kg	☆	11/05/23 15:17	1	VBG

Client Sample ID: SS-1 (2.0-12.0)

Date Collected: 10/27/23 08:24

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-11

Matrix: Solid

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☆	11/04/23 05:52	1	AAT
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☆	11/04/23 05:52	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☆	11/04/23 05:52	1	AAT
1,1,2-Trichloroethane	0.00020	U J	0.0011	0.00020	mg/Kg	☆	11/04/23 05:52	1	AAT
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☆	11/04/23 05:52	1	AAT
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2,4-Trichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2-Dibromo-3-Chloropropane	0.00051	U	0.0011	0.00051	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☆	11/04/23 05:52	1	AAT
1,2-Dichloropropane	0.00047	U	0.0011	0.00047	mg/Kg	☆	11/04/23 05:52	1	AAT
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☆	11/04/23 05:52	1	AAT
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☆	11/04/23 05:52	1	AAT
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	☆	11/04/23 05:52	1	AAT
2-Butanone (MEK)	0.00041	U	0.0056	0.00041	mg/Kg	☆	11/04/23 05:52	1	AAT
2-Hexanone	0.0019	U	0.0056	0.0019	mg/Kg	☆	11/04/23 05:52	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0056	0.0017	mg/Kg	☆	11/04/23 05:52	1	AAT
Acetone	0.0064	U	0.0067	0.0064	mg/Kg	☆	11/04/23 05:52	1	AAT
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☆	11/04/23 05:52	1	AAT
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	☆	11/04/23 05:52	1	AAT
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☆	11/04/23 05:52	1	AAT
Carbon disulfide	0.00030	U J	0.0011	0.00030	mg/Kg	☆	11/04/23 05:52	1	AAT
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☆	11/04/23 05:52	1	AAT
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	11/04/23 05:52	1	AAT
Chlorobromomethane	0.00031	U	0.0011	0.00031	mg/Kg	☆	11/04/23 05:52	1	AAT
Chlorodibromomethane	0.00022	U	0.0011	0.00022	mg/Kg	☆	11/04/23 05:52	1	AAT
Chloroethane	0.00058	U	0.0011	0.00058	mg/Kg	☆	11/04/23 05:52	1	AAT
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☆	11/04/23 05:52	1	AAT
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	☆	11/04/23 05:52	1	AAT
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☆	11/04/23 05:52	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (2.0-12.0)

Lab Sample ID: 460-291365-11

Date Collected: 10/27/23 08:24

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 05:52	1	AAT
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 05:52	1	AAT
Dichlorobromomethane	0.00029	U	0.0011	0.00029	mg/Kg	✱	11/04/23 05:52	1	AAT
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/04/23 05:52	1	AAT
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 05:52	1	AAT
Ethylene Dibromide	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 05:52	1	AAT
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/04/23 05:52	1	AAT
Methyl acetate	0.0048	U	0.0056	0.0048	mg/Kg	✱	11/04/23 05:52	1	AAT
Methyl tert-butyl ether	0.00057	U	0.0011	0.00057	mg/Kg	✱	11/04/23 05:52	1	AAT
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	✱	11/04/23 05:52	1	AAT
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	✱	11/04/23 05:52	1	AAT
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	✱	11/04/23 05:52	1	AAT
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 05:52	1	AAT
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 05:52	1	AAT
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	✱	11/04/23 05:52	1	AAT
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	✱	11/04/23 05:52	1	AAT
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	✱	11/04/23 05:52	1	AAT
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	✱	11/04/23 05:52	1	AAT
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	✱	11/04/23 05:52	1	AAT
Trichlorofluoromethane	0.00045	U	0.0011	0.00045	mg/Kg	✱	11/04/23 05:52	1	AAT
Vinyl chloride	0.00061	U	0.0011	0.00061	mg/Kg	✱	11/04/23 05:52	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/04/23 05:52	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	100		72 - 138	11/04/23 05:52	1	AAT
4-Bromofluorobenzene	99		63 - 139	11/04/23 05:52	1	AAT
Dibromofluoromethane (Surr)	106		54 - 150	11/04/23 05:52	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/04/23 05:52	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 12:07	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 12:07	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 12:07	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (2.0-12.0)

Lab Sample ID: 460-291365-11

Date Collected: 10/27/23 08:24

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	✱	11/01/23 12:07	1	MDJ
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	✱	11/01/23 12:07	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	✱	11/01/23 12:07	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 12:07	1	MDJ
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	✱	11/01/23 12:07	1	MDJ
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	✱	11/01/23 12:07	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 12:07	1	MDJ
Anthracene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 12:07	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzaldehyde	0.056	U J	0.33	0.056	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzo[a]pyrene	0.027	J	0.033	0.0089	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzo[b]fluoranthene	0.031	J	0.033	0.0087	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzo[g,h,i]perylene	0.017	J	0.33	0.0099	mg/Kg	✱	11/01/23 12:07	1	MDJ
Benzo[k]fluoranthene	0.012	J	0.033	0.0066	mg/Kg	✱	11/01/23 12:07	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 12:07	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 12:07	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 12:07	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 12:07	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 12:07	1	MDJ
Chrysene	0.023	J	0.33	0.014	mg/Kg	✱	11/01/23 12:07	1	MDJ
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	✱	11/01/23 12:07	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 12:07	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 12:07	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	✱	11/01/23 12:07	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 12:07	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 12:07	1	MDJ
Fluoranthene	0.026	J	0.33	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	✱	11/01/23 12:07	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 12:07	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	✱	11/01/23 12:07	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	11/01/23 12:07	1	MDJ
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ
Indeno[1,2,3-cd]pyrene	0.018	J	0.033	0.013	mg/Kg	✱	11/01/23 12:07	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	✱	11/01/23 12:07	1	MDJ
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	✱	11/01/23 12:07	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	✱	11/01/23 12:07	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	11/01/23 12:07	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	✱	11/01/23 12:07	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	✱	11/01/23 12:07	1	MDJ
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	✱	11/01/23 12:07	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 12:07	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-1 (2.0-12.0)

Lab Sample ID: 460-291365-11

Date Collected: 10/27/23 08:24

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Pyrene	0.029	J	0.33	0.0084	mg/Kg	☆	11/01/23 12:07	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	11/01/23 12:07	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	69		24 - 137	11/01/23 12:07	1	MDJ
2-Fluorobiphenyl	88		48 - 120	11/01/23 12:07	1	MDJ
2-Fluorophenol (Surr)	83		31 - 120	11/01/23 12:07	1	MDJ
Nitrobenzene-d5 (Surr)	95		38 - 120	11/01/23 12:07	1	MDJ
Phenol-d5 (Surr)	93		39 - 120	11/01/23 12:07	1	MDJ
Terphenyl-d14 (Surr)	92		25 - 126	11/01/23 12:07	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	10200		18.8	5.2	mg/Kg	☆	11/09/23 21:05	1	CDC
Antimony	0.43	J	0.94	0.14	mg/Kg	☆	11/09/23 21:05	1	CDC
Arsenic	1.4		0.94	0.097	mg/Kg	☆	11/09/23 21:05	1	CDC
Barium	98.5		1.9	0.14	mg/Kg	☆	11/09/23 21:05	1	CDC
Beryllium	0.38		0.38	0.054	mg/Kg	☆	11/09/23 21:05	1	CDC
Cadmium	0.28	J	0.94	0.11	mg/Kg	☆	11/09/23 21:05	1	CDC
Calcium	15400	J	94.0	38.3	mg/Kg	☆	11/09/23 21:05	1	CDC
Chromium	30.1	J	1.9	0.85	mg/Kg	☆	11/09/23 21:05	1	CDC
Cobalt	8.8	J	1.9	0.14	mg/Kg	☆	11/09/23 21:05	1	CDC
Copper	24.3	J	1.9	0.35	mg/Kg	☆	11/09/23 21:05	1	CDC
Iron	20800		56.4	19.0	mg/Kg	☆	11/09/23 21:05	1	CDC
Lead	196	J	0.56	0.19	mg/Kg	☆	11/09/23 21:05	1	CDC
Magnesium	13800	J	94.0	9.6	mg/Kg	☆	11/09/23 21:05	1	CDC
Manganese	293		3.8	0.38	mg/Kg	☆	11/09/23 21:05	1	CDC
Nickel	21.3	J	1.9	0.44	mg/Kg	☆	11/09/23 21:05	1	CDC
Potassium	5000		94.0	15.2	mg/Kg	☆	11/09/23 21:05	1	CDC
Selenium	0.16	J	1.2	0.12	mg/Kg	☆	11/09/23 21:05	1	CDC
Silver	0.16	J	0.38	0.084	mg/Kg	☆	11/09/23 21:05	1	CDC
Sodium	148		94.0	43.0	mg/Kg	☆	11/09/23 21:05	1	CDC
Thallium	0.22	J	0.38	0.039	mg/Kg	☆	11/09/23 21:05	1	CDC
Vanadium	29.4	J	1.9	0.19	mg/Kg	☆	11/09/23 21:05	1	CDC
Zinc	129		7.5	2.9	mg/Kg	☆	11/09/23 21:05	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.10	J	0.016	0.0074	mg/Kg	☆	11/10/23 05:57	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.12	J	0.20	0.11	mg/Kg	☆	11/08/23 23:37	1	VBG

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (2.0-12.0)

Lab Sample ID: 460-291365-12

Date Collected: 10/27/23 09:57

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/04/23 06:15	1	AAT
1,1,2,2-Tetrachloroethane	0.00019	U	0.00087	0.00019	mg/Kg	☆	11/04/23 06:15	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00087	0.00026	mg/Kg	☆	11/04/23 06:15	1	AAT
1,1,2-Trichloroethane	0.00015	U J	0.00087	0.00015	mg/Kg	☆	11/04/23 06:15	1	AAT
1,1-Dichloroethane	0.00018	U	0.00087	0.00018	mg/Kg	☆	11/04/23 06:15	1	AAT
1,1-Dichloroethene	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2,3-Trichlorobenzene	0.00016	U	0.00087	0.00016	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2,4-Trichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2-Dibromo-3-Chloropropane	0.00040	U	0.00087	0.00040	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2-Dichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2-Dichloroethane	0.00026	U	0.00087	0.00026	mg/Kg	☆	11/04/23 06:15	1	AAT
1,2-Dichloropropane	0.00037	U	0.00087	0.00037	mg/Kg	☆	11/04/23 06:15	1	AAT
1,3-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	☆	11/04/23 06:15	1	AAT
1,4-Dichlorobenzene	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/04/23 06:15	1	AAT
1,4-Dioxane	0.0080	U	0.087	0.0080	mg/Kg	☆	11/04/23 06:15	1	AAT
2-Butanone (MEK)	0.00032	U	0.0044	0.00032	mg/Kg	☆	11/04/23 06:15	1	AAT
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	☆	11/04/23 06:15	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	☆	11/04/23 06:15	1	AAT
Acetone	0.0050	U	0.0052	0.0050	mg/Kg	☆	11/04/23 06:15	1	AAT
Benzene	0.00022	U	0.00087	0.00022	mg/Kg	☆	11/04/23 06:15	1	AAT
Bromoform	0.00037	U	0.00087	0.00037	mg/Kg	☆	11/04/23 06:15	1	AAT
Bromomethane	0.00087	U	0.0017	0.00087	mg/Kg	☆	11/04/23 06:15	1	AAT
Carbon disulfide	0.00023	U J	0.00087	0.00023	mg/Kg	☆	11/04/23 06:15	1	AAT
Carbon tetrachloride	0.00034	U	0.00087	0.00034	mg/Kg	☆	11/04/23 06:15	1	AAT
Chlorobenzene	0.00015	U	0.00087	0.00015	mg/Kg	☆	11/04/23 06:15	1	AAT
Chlorobromomethane	0.00024	U	0.00087	0.00024	mg/Kg	☆	11/04/23 06:15	1	AAT
Chlorodibromomethane	0.00017	U	0.00087	0.00017	mg/Kg	☆	11/04/23 06:15	1	AAT
Chloroethane	0.00045	U	0.00087	0.00045	mg/Kg	☆	11/04/23 06:15	1	AAT
Chloroform	0.00084	U	0.00087	0.00084	mg/Kg	☆	11/04/23 06:15	1	AAT
Chloromethane	0.00038	U	0.00087	0.00038	mg/Kg	☆	11/04/23 06:15	1	AAT
cis-1,2-Dichloroethene	0.00031	U	0.00087	0.00031	mg/Kg	☆	11/04/23 06:15	1	AAT
cis-1,3-Dichloropropene	0.00024	U	0.00087	0.00024	mg/Kg	☆	11/04/23 06:15	1	AAT
Cyclohexane	0.00019	U	0.00087	0.00019	mg/Kg	☆	11/04/23 06:15	1	AAT
Dichlorobromomethane	0.00022	U	0.00087	0.00022	mg/Kg	☆	11/04/23 06:15	1	AAT
Dichlorodifluoromethane	0.00029	U	0.00087	0.00029	mg/Kg	☆	11/04/23 06:15	1	AAT
Ethylbenzene	0.00017	U	0.00087	0.00017	mg/Kg	☆	11/04/23 06:15	1	AAT
Ethylene Dibromide	0.00016	U	0.00087	0.00016	mg/Kg	☆	11/04/23 06:15	1	AAT
Isopropylbenzene	0.00025	U	0.00087	0.00025	mg/Kg	☆	11/04/23 06:15	1	AAT
Methyl acetate	0.0037	U	0.0044	0.0037	mg/Kg	☆	11/04/23 06:15	1	AAT
Methyl tert-butyl ether	0.00045	U	0.00087	0.00045	mg/Kg	☆	11/04/23 06:15	1	AAT
Methylcyclohexane	0.00043	U	0.00087	0.00043	mg/Kg	☆	11/04/23 06:15	1	AAT
Methylene Chloride	0.0010	U	0.0017	0.0010	mg/Kg	☆	11/04/23 06:15	1	AAT
m-Xylene & p-Xylene	0.00015	U	0.00087	0.00015	mg/Kg	☆	11/04/23 06:15	1	AAT
o-Xylene	0.00017	U	0.00087	0.00017	mg/Kg	☆	11/04/23 06:15	1	AAT
Styrene	0.00024	U	0.00087	0.00024	mg/Kg	☆	11/04/23 06:15	1	AAT
Tetrachloroethene	0.00027	U	0.00087	0.00027	mg/Kg	☆	11/04/23 06:15	1	AAT
Toluene	0.00020	U	0.00087	0.00020	mg/Kg	☆	11/04/23 06:15	1	AAT
trans-1,2-Dichloroethene	0.00021	U	0.00087	0.00021	mg/Kg	☆	11/04/23 06:15	1	AAT
trans-1,3-Dichloropropene	0.00023	U	0.00087	0.00023	mg/Kg	☆	11/04/23 06:15	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (2.0-12.0)

Lab Sample ID: 460-291365-12

Date Collected: 10/27/23 09:57

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00028	U	0.00087	0.00028	mg/Kg	☼	11/04/23 06:15	1	AAT
Trichlorofluoromethane	0.00035	U	0.00087	0.00035	mg/Kg	☼	11/04/23 06:15	1	AAT
Vinyl chloride	0.00048	U	0.00087	0.00048	mg/Kg	☼	11/04/23 06:15	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 06:15	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	107		72 - 138	11/04/23 06:15	1	AAT
4-Bromofluorobenzene	102		63 - 139	11/04/23 06:15	1	AAT
Dibromofluoromethane (Surr)	111		54 - 150	11/04/23 06:15	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/04/23 06:15	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:29	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	11/01/23 12:29	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	11/01/23 12:29	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	11/01/23 12:29	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	11/01/23 12:29	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	11/01/23 12:29	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	11/01/23 12:29	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	11/01/23 12:29	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	11/01/23 12:29	1	MDJ
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	11/01/23 12:29	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 12:29	1	MDJ
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 12:29	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	11/01/23 12:29	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	11/01/23 12:29	1	MDJ
Benzo[a]anthracene	0.053		0.033	0.025	mg/Kg	☼	11/01/23 12:29	1	MDJ
Benzo[a]pyrene	0.064		0.033	0.0088	mg/Kg	☼	11/01/23 12:29	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (2.0-12.0)

Lab Sample ID: 460-291365-12

Date Collected: 10/27/23 09:57

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.086		0.033	0.0086	mg/Kg	☆	11/01/23 12:29	1	MDJ
Benzo[g,h,i]perylene	0.043	J	0.33	0.0098	mg/Kg	☆	11/01/23 12:29	1	MDJ
Benzo[k]fluoranthene	0.036		0.033	0.0065	mg/Kg	☆	11/01/23 12:29	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☆	11/01/23 12:29	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☆	11/01/23 12:29	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☆	11/01/23 12:29	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☆	11/01/23 12:29	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☆	11/01/23 12:29	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	☆	11/01/23 12:29	1	MDJ
Chrysene	0.059	J	0.33	0.014	mg/Kg	☆	11/01/23 12:29	1	MDJ
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☆	11/01/23 12:29	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☆	11/01/23 12:29	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☆	11/01/23 12:29	1	MDJ
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☆	11/01/23 12:29	1	MDJ
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	☆	11/01/23 12:29	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☆	11/01/23 12:29	1	MDJ
Fluoranthene	0.083	J	0.33	0.012	mg/Kg	☆	11/01/23 12:29	1	MDJ
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☆	11/01/23 12:29	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☆	11/01/23 12:29	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☆	11/01/23 12:29	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	☆	11/01/23 12:29	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☆	11/01/23 12:29	1	MDJ
Indeno[1,2,3-cd]pyrene	0.047		0.033	0.013	mg/Kg	☆	11/01/23 12:29	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	☆	11/01/23 12:29	1	MDJ
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☆	11/01/23 12:29	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☆	11/01/23 12:29	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☆	11/01/23 12:29	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☆	11/01/23 12:29	1	MDJ
Pentachlorophenol	0.068	U J	0.27	0.068	mg/Kg	☆	11/01/23 12:29	1	MDJ
Phenanthrene	0.022	J	0.33	0.014	mg/Kg	☆	11/01/23 12:29	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☆	11/01/23 12:29	1	MDJ
Pyrene	0.077	J	0.33	0.0083	mg/Kg	☆	11/01/23 12:29	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☆		N/A	11/01/23 12:29	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	68		24 - 137	11/01/23 12:29	1	MDJ
2-Fluorobiphenyl	85		48 - 120	11/01/23 12:29	1	MDJ
2-Fluorophenol (Surr)	79		31 - 120	11/01/23 12:29	1	MDJ
Nitrobenzene-d5 (Surr)	90		38 - 120	11/01/23 12:29	1	MDJ
Phenol-d5 (Surr)	89		39 - 120	11/01/23 12:29	1	MDJ
Terphenyl-d14 (Surr)	89		25 - 126	11/01/23 12:29	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	11300		19.0	5.2	mg/Kg	☆	11/09/23 21:08	1	CDC
Antimony	0.20	J	0.95	0.14	mg/Kg	☆	11/09/23 21:08	1	CDC
Arsenic	1.1		0.95	0.098	mg/Kg	☆	11/09/23 21:08	1	CDC
Barium	122		1.9	0.14	mg/Kg	☆	11/09/23 21:08	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-7 (2.0-12.0)

Lab Sample ID: 460-291365-12

Date Collected: 10/27/23 09:57

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Beryllium	0.37	J	0.38	0.054	mg/Kg	✱	11/09/23 21:08	1	CDC
Cadmium	0.19	J	0.95	0.11	mg/Kg	✱	11/09/23 21:08	1	CDC
Calcium	4880	J	95.1	38.7	mg/Kg	✱	11/09/23 21:08	1	CDC
Chromium	23.2	J	1.9	0.86	mg/Kg	✱	11/09/23 21:08	1	CDC
Cobalt	8.5	J	1.9	0.14	mg/Kg	✱	11/09/23 21:08	1	CDC
Copper	46.2	J	1.9	0.35	mg/Kg	✱	11/09/23 21:08	1	CDC
Iron	22500		57.0	19.2	mg/Kg	✱	11/09/23 21:08	1	CDC
Lead	386	J	0.57	0.19	mg/Kg	✱	11/09/23 21:08	1	CDC
Magnesium	8770	J	95.1	9.7	mg/Kg	✱	11/09/23 21:08	1	CDC
Manganese	269		3.8	0.38	mg/Kg	✱	11/09/23 21:08	1	CDC
Nickel	19.0	J	1.9	0.45	mg/Kg	✱	11/09/23 21:08	1	CDC
Potassium	5490		95.1	15.4	mg/Kg	✱	11/09/23 21:08	1	CDC
Selenium	0.29	J	1.2	0.12	mg/Kg	✱	11/09/23 21:08	1	CDC
Silver	0.085	U	0.38	0.085	mg/Kg	✱	11/09/23 21:08	1	CDC
Sodium	177		95.1	43.4	mg/Kg	✱	11/09/23 21:08	1	CDC
Thallium	0.23	J	0.38	0.039	mg/Kg	✱	11/09/23 21:08	1	CDC
Vanadium	31.8	J	1.9	0.20	mg/Kg	✱	11/09/23 21:08	1	CDC
Zinc	118		7.6	2.9	mg/Kg	✱	11/09/23 21:08	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.15	J	0.017	0.0081	mg/Kg	✱	11/10/23 05:59	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.13	U	0.23	0.13	mg/Kg	✱	11/08/23 23:37	1	VBG

Client Sample ID: SS-3 (0.0-2.0)

Lab Sample ID: 460-291365-13

Date Collected: 10/27/23 08:49

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	✱	11/04/23 06:39	1	AAT
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	✱	11/04/23 06:39	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	✱	11/04/23 06:39	1	AAT
1,1,2-Trichloroethane	0.00018	U J	0.0010	0.00018	mg/Kg	✱	11/04/23 06:39	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	✱	11/04/23 06:39	1	AAT
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2-Dibromo-3-Chloropropane	0.00047	U	0.0010	0.00047	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	✱	11/04/23 06:39	1	AAT
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	✱	11/04/23 06:39	1	AAT
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	✱	11/04/23 06:39	1	AAT
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	✱	11/04/23 06:39	1	AAT
1,4-Dioxane	0.0095	U	0.10	0.0095	mg/Kg	✱	11/04/23 06:39	1	AAT
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	✱	11/04/23 06:39	1	AAT
2-Hexanone	0.0018	U	0.0052	0.0018	mg/Kg	✱	11/04/23 06:39	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (0.0-2.0)

Lab Sample ID: 460-291365-13

Date Collected: 10/27/23 08:49

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0052	0.0016	mg/Kg	☼	11/04/23 06:39	1	AAT
Acetone	0.0059	U	0.0062	0.0059	mg/Kg	☼	11/04/23 06:39	1	AAT
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	11/04/23 06:39	1	AAT
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	11/04/23 06:39	1	AAT
Bromomethane	0.0010	U	0.0021	0.0010	mg/Kg	☼	11/04/23 06:39	1	AAT
Carbon disulfide	0.00027	U J	0.0010	0.00027	mg/Kg	☼	11/04/23 06:39	1	AAT
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	11/04/23 06:39	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	11/04/23 06:39	1	AAT
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	11/04/23 06:39	1	AAT
Chlorodibromomethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	11/04/23 06:39	1	AAT
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☼	11/04/23 06:39	1	AAT
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	11/04/23 06:39	1	AAT
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	11/04/23 06:39	1	AAT
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	11/04/23 06:39	1	AAT
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	11/04/23 06:39	1	AAT
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	11/04/23 06:39	1	AAT
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	11/04/23 06:39	1	AAT
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	11/04/23 06:39	1	AAT
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☼	11/04/23 06:39	1	AAT
Ethylene Dibromide	0.00019	U	0.0010	0.00019	mg/Kg	☼	11/04/23 06:39	1	AAT
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	11/04/23 06:39	1	AAT
Methyl acetate	0.0044	U	0.0052	0.0044	mg/Kg	☼	11/04/23 06:39	1	AAT
Methyl tert-butyl ether	0.00053	U	0.0010	0.00053	mg/Kg	☼	11/04/23 06:39	1	AAT
Methylcyclohexane	0.00051	U	0.0010	0.00051	mg/Kg	☼	11/04/23 06:39	1	AAT
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	11/04/23 06:39	1	AAT
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	11/04/23 06:39	1	AAT
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	11/04/23 06:39	1	AAT
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	11/04/23 06:39	1	AAT
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	11/04/23 06:39	1	AAT
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	11/04/23 06:39	1	AAT
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	11/04/23 06:39	1	AAT
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	11/04/23 06:39	1	AAT
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	11/04/23 06:39	1	AAT
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	11/04/23 06:39	1	AAT
Vinyl chloride	0.00056	U	0.0010	0.00056	mg/Kg	☼	11/04/23 06:39	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.0072	J N	mg/Kg	☼	2.14	75-18-3	11/04/23 06:39	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		72 - 138	11/04/23 06:39	1	AAT
4-Bromofluorobenzene	102		63 - 139	11/04/23 06:39	1	AAT
Dibromofluoromethane (Surr)	106		54 - 150	11/04/23 06:39	1	AAT
Toluene-d8 (Surr)	103		71 - 126	11/04/23 06:39	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 15:30	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	11/01/23 15:30	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.34	0.020	mg/Kg	☼	11/01/23 15:30	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (0.0-2.0)

Lab Sample ID: 460-291365-13

Date Collected: 10/27/23 08:49

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 15:30	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Methylnaphthalene	0.0094	U	0.34	0.0094	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 15:30	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 15:30	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	✱	11/01/23 15:30	1	MDJ
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	✱	11/01/23 15:30	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	✱	11/01/23 15:30	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 15:30	1	MDJ
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	✱	11/01/23 15:30	1	MDJ
Acenaphthylene	0.044	J	0.34	0.0096	mg/Kg	✱	11/01/23 15:30	1	MDJ
Acetophenone	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 15:30	1	MDJ
Anthracene	0.049	J	0.34	0.010	mg/Kg	✱	11/01/23 15:30	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzaldehyde	0.056	U J	0.34	0.056	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzo[a]anthracene	0.22		0.034	0.025	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzo[a]pyrene	0.25		0.034	0.0090	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzo[b]fluoranthene	0.33		0.034	0.0087	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzo[g,h,i]perylene	0.13	J	0.34	0.0099	mg/Kg	✱	11/01/23 15:30	1	MDJ
Benzo[k]fluoranthene	0.12		0.034	0.0066	mg/Kg	✱	11/01/23 15:30	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	✱	11/01/23 15:30	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	✱	11/01/23 15:30	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 15:30	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 15:30	1	MDJ
Caprolactam	0.052	U	0.34	0.052	mg/Kg	✱	11/01/23 15:30	1	MDJ
Carbazole	0.025	J	0.34	0.013	mg/Kg	✱	11/01/23 15:30	1	MDJ
Chrysene	0.24	J	0.34	0.014	mg/Kg	✱	11/01/23 15:30	1	MDJ
Dibenz(a,h)anthracene	0.039		0.034	0.015	mg/Kg	✱	11/01/23 15:30	1	MDJ
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 15:30	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 15:30	1	MDJ
Dimethyl phthalate	0.076	U	0.34	0.076	mg/Kg	✱	11/01/23 15:30	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	✱	11/01/23 15:30	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	✱	11/01/23 15:30	1	MDJ
Fluoranthene	0.41		0.34	0.012	mg/Kg	✱	11/01/23 15:30	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (0.0-2.0)

Lab Sample ID: 460-291365-13

Date Collected: 10/27/23 08:49

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.4

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluorene	0.013	J	0.34	0.0098	mg/Kg	☼	11/01/23 15:30	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	11/01/23 15:30	1	MDJ
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	☼	11/01/23 15:30	1	MDJ
Hexachlorocyclopentadiene	~~0.029~~	~~U *~~	~~0.34~~	~~0.029~~	~~mg/Kg~~	~~☼~~	~~11/01/23 15:30~~	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	11/01/23 15:30	1	MDJ
Indeno[1,2,3-cd]pyrene	0.14		0.034	0.013	mg/Kg	☼	11/01/23 15:30	1	MDJ
Isophorone	0.097	U	0.14	0.097	mg/Kg	☼	11/01/23 15:30	1	MDJ
Naphthalene	0.013	J	0.34	0.0058	mg/Kg	☼	11/01/23 15:30	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	11/01/23 15:30	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.034	0.024	mg/Kg	☼	11/01/23 15:30	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	11/01/23 15:30	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☼	11/01/23 15:30	1	MDJ
Phenanthrene	0.16	J	0.34	0.014	mg/Kg	☼	11/01/23 15:30	1	MDJ
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 15:30	1	MDJ
Pyrene	0.44		0.34	0.0084	mg/Kg	☼	11/01/23 15:30	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Ethanol, 2-(hexadecyloxy)-	0.47	J N	mg/Kg	☼	11.72	2136-71-2	11/01/23 15:30	1	MDJ
Heneicosane	0.74	J N	mg/Kg	☼	12.59	629-94-7	11/01/23 15:30	1	MDJ
(Z)-14-Tricosenyl formate	0.44	J N	mg/Kg	☼	13.27	77899-10-6	11/01/23 15:30	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	11/01/23 15:30	1	MDJ
2-Fluorobiphenyl	89		48 - 120	11/01/23 15:30	1	MDJ
2-Fluorophenol (Surr)	86		31 - 120	11/01/23 15:30	1	MDJ
Nitrobenzene-d5 (Surr)	98		38 - 120	11/01/23 15:30	1	MDJ
Phenol-d5 (Surr)	94		39 - 120	11/01/23 15:30	1	MDJ
Terphenyl-d14 (Surr)	100		25 - 126	11/01/23 15:30	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	7500		19.7	5.4	mg/Kg	☼	11/09/23 21:10	1	CDC
Antimony	0.36	J	0.99	0.14	mg/Kg	☼	11/09/23 21:10	1	CDC
Arsenic	2.5		0.99	0.10	mg/Kg	☼	11/09/23 21:10	1	CDC
Barium	105		2.0	0.14	mg/Kg	☼	11/09/23 21:10	1	CDC
Beryllium	0.28	J	0.39	0.056	mg/Kg	☼	11/09/23 21:10	1	CDC
Cadmium	0.30	J	0.99	0.11	mg/Kg	☼	11/09/23 21:10	1	CDC
Calcium	13300	J	98.7	40.2	mg/Kg	☼	11/09/23 21:10	1	CDC
Chromium	15.9	J	2.0	0.90	mg/Kg	☼	11/09/23 21:10	1	CDC
Cobalt	6.7	J	2.0	0.15	mg/Kg	☼	11/09/23 21:10	1	CDC
Copper	36.9	J	2.0	0.36	mg/Kg	☼	11/09/23 21:10	1	CDC
Iron	15200		59.2	19.9	mg/Kg	☼	11/09/23 21:10	1	CDC
Lead	166	J	0.59	0.20	mg/Kg	☼	11/09/23 21:10	1	CDC
Magnesium	8410	J	98.7	10.1	mg/Kg	☼	11/09/23 21:10	1	CDC
Manganese	236		3.9	0.40	mg/Kg	☼	11/09/23 21:10	1	CDC
Nickel	12.5	J	2.0	0.46	mg/Kg	☼	11/09/23 21:10	1	CDC
Potassium	2670		98.7	16.0	mg/Kg	☼	11/09/23 21:10	1	CDC
Selenium	0.32	J	1.2	0.13	mg/Kg	☼	11/09/23 21:10	1	CDC
Silver	0.24	J	0.39	0.088	mg/Kg	☼	11/09/23 21:10	1	CDC
Sodium	118		98.7	45.1	mg/Kg	☼	11/09/23 21:10	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (0.0-2.0)

Date Collected: 10/27/23 08:49

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-13

Matrix: Solid

Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Thallium	0.18	J	0.39	0.040	mg/Kg	☆	11/09/23 21:10	1	CDC
Vanadium	22.5	J	2.0	0.20	mg/Kg	☆	11/09/23 21:10	1	CDC
Zinc	139		7.9	3.0	mg/Kg	☆	11/09/23 21:10	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.14	J	0.017	0.0081	mg/Kg	☆	11/10/23 06:17	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.30		0.24	0.13	mg/Kg	☆	11/08/23 23:38	1	VBG

Client Sample ID: SS-3 (2.0-12.0)

Date Collected: 10/27/23 09:05

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-14

Matrix: Solid

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00027	U	0.0011	0.00027	mg/Kg	☆	11/04/23 14:42	1	AAT
1,1,2,2-Tetrachloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☆	11/04/23 14:42	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0011	0.00035	mg/Kg	☆	11/04/23 14:42	1	AAT
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☆	11/04/23 14:42	1	AAT
1,1-Dichloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☆	11/04/23 14:42	1	AAT
1,1-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2,3-Trichlorobenzene	0.00021	U	0.0011	0.00021	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2,4-Trichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2-Dibromo-3-Chloropropane	0.00053	U	0.0011	0.00053	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2-Dichloroethane	0.00034	U	0.0011	0.00034	mg/Kg	☆	11/04/23 14:42	1	AAT
1,2-Dichloropropane	0.00049	U	0.0011	0.00049	mg/Kg	☆	11/04/23 14:42	1	AAT
1,3-Dichlorobenzene	0.00042	U	0.0011	0.00042	mg/Kg	☆	11/04/23 14:42	1	AAT
1,4-Dichlorobenzene	0.00026	U	0.0011	0.00026	mg/Kg	☆	11/04/23 14:42	1	AAT
1,4-Dioxane	0.011	U J	0.11	0.011	mg/Kg	☆	11/04/23 14:42	1	AAT
2-Butanone (MEK)	0.00042	U	0.0057	0.00042	mg/Kg	☆	11/04/23 14:42	1	AAT
2-Hexanone	0.0020	U	0.0057	0.0020	mg/Kg	☆	11/04/23 14:42	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0057	0.0018	mg/Kg	☆	11/04/23 14:42	1	AAT
Acetone	0.0066	U	0.0069	0.0066	mg/Kg	☆	11/04/23 14:42	1	AAT
Benzene	0.00030	U	0.0011	0.00030	mg/Kg	☆	11/04/23 14:42	1	AAT
Bromoform	0.00049	U	0.0011	0.00049	mg/Kg	☆	11/04/23 14:42	1	AAT
Bromomethane	0.0011	U	0.0023	0.0011	mg/Kg	☆	11/04/23 14:42	1	AAT
Carbon disulfide	0.00031	U J	0.0011	0.00031	mg/Kg	☆	11/04/23 14:42	1	AAT
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	☆	11/04/23 14:42	1	AAT
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	11/04/23 14:42	1	AAT
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	☆	11/04/23 14:42	1	AAT
Chlorodibromomethane	0.00022	U	0.0011	0.00022	mg/Kg	☆	11/04/23 14:42	1	AAT
Chloroethane	0.00060	U	0.0011	0.00060	mg/Kg	☆	11/04/23 14:42	1	AAT
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☆	11/04/23 14:42	1	AAT
Chloromethane	0.00050	U	0.0011	0.00050	mg/Kg	☆	11/04/23 14:42	1	AAT
cis-1,2-Dichloroethene	0.00041	U	0.0011	0.00041	mg/Kg	☆	11/04/23 14:42	1	AAT
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☆	11/04/23 14:42	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (2.0-12.0)

Lab Sample ID: 460-291365-14

Date Collected: 10/27/23 09:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 14:42	1	AAT
Dichlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	✱	11/04/23 14:42	1	AAT
Dichlorodifluoromethane	0.00039	U	0.0011	0.00039	mg/Kg	✱	11/04/23 14:42	1	AAT
Ethylbenzene	0.00023	U	0.0011	0.00023	mg/Kg	✱	11/04/23 14:42	1	AAT
Ethylene Dibromide	0.00021	U	0.0011	0.00021	mg/Kg	✱	11/04/23 14:42	1	AAT
Isopropylbenzene	0.00033	U	0.0011	0.00033	mg/Kg	✱	11/04/23 14:42	1	AAT
Methyl acetate	0.0049	U** *1 UJ	0.0057	0.0049	mg/Kg	✱	11/04/23 14:42	1	AAT
Methyl tert-butyl ether	0.00059	U	0.0011	0.00059	mg/Kg	✱	11/04/23 14:42	1	AAT
Methylcyclohexane	0.00057	U	0.0011	0.00057	mg/Kg	✱	11/04/23 14:42	1	AAT
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	✱	11/04/23 14:42	1	AAT
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 14:42	1	AAT
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 14:42	1	AAT
Styrene	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/04/23 14:42	1	AAT
Tetrachloroethene	0.00035	U	0.0011	0.00035	mg/Kg	✱	11/04/23 14:42	1	AAT
Toluene	0.00027	U	0.0011	0.00027	mg/Kg	✱	11/04/23 14:42	1	AAT
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	✱	11/04/23 14:42	1	AAT
trans-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 14:42	1	AAT
Trichloroethene	0.00037	U	0.0011	0.00037	mg/Kg	✱	11/04/23 14:42	1	AAT
Trichlorofluoromethane	0.00047	U	0.0011	0.00047	mg/Kg	✱	11/04/23 14:42	1	AAT
Vinyl chloride	0.00063	U	0.0011	0.00063	mg/Kg	✱	11/04/23 14:42	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/04/23 14:42	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	97		72 - 138	11/04/23 14:42	1	AAT
4-Bromofluorobenzene	101		63 - 139	11/04/23 14:42	1	AAT
Dibromofluoromethane (Surr)	107		54 - 150	11/04/23 14:42	1	AAT
Toluene-d8 (Surr)	100		71 - 126	11/04/23 14:42	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 16:15	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Methylnaphthalene	0.011	J	0.33	0.0094	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 16:15	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 16:15	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	✱	11/01/23 16:15	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (2.0-12.0)

Lab Sample ID: 460-291365-14

Date Collected: 10/27/23 09:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.2

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 16:15	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	11/01/23 16:15	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	✱	11/01/23 16:15	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 16:15	1	MDJ
Acenaphthylene	0.072	J	0.33	0.0096	mg/Kg	✱	11/01/23 16:15	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 16:15	1	MDJ
Anthracene	0.061	J	0.33	0.010	mg/Kg	✱	11/01/23 16:15	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzo[a]anthracene	0.22		0.033	0.025	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzo[a]pyrene	0.29		0.033	0.0089	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzo[b]fluoranthene	0.41		0.033	0.0087	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzo[g,h,i]perylene	0.15	J	0.33	0.0099	mg/Kg	✱	11/01/23 16:15	1	MDJ
Benzo[k]fluoranthene	0.13		0.033	0.0066	mg/Kg	✱	11/01/23 16:15	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 16:15	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
Bis(2-ethylhexyl) phthalate	0.077	J	0.33	0.018	mg/Kg	✱	11/01/23 16:15	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 16:15	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 16:15	1	MDJ
Carbazole	0.016	J	0.33	0.013	mg/Kg	✱	11/01/23 16:15	1	MDJ
Chrysene	0.27	J	0.33	0.014	mg/Kg	✱	11/01/23 16:15	1	MDJ
Dibenz(a,h)anthracene	0.047		0.033	0.014	mg/Kg	✱	11/01/23 16:15	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 16:15	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 16:15	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	✱	11/01/23 16:15	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 16:15	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 16:15	1	MDJ
Fluoranthene	0.36		0.33	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
Fluorene	0.018	J	0.33	0.0098	mg/Kg	✱	11/01/23 16:15	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 16:15	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	✱	11/01/23 16:15	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	11/01/23 16:15	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	11/01/23 16:15	1	MDJ
Indeno[1,2,3-cd]pyrene	0.17		0.033	0.013	mg/Kg	✱	11/01/23 16:15	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	✱	11/01/23 16:15	1	MDJ
Naphthalene	0.013	J	0.33	0.0058	mg/Kg	✱	11/01/23 16:15	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	✱	11/01/23 16:15	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	11/01/23 16:15	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	✱	11/01/23 16:15	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	✱	11/01/23 16:15	1	MDJ
Phenanthrene	0.16	J	0.33	0.014	mg/Kg	✱	11/01/23 16:15	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 16:15	1	MDJ
Pyrene	0.48		0.33	0.0083	mg/Kg	✱	11/01/23 16:15	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (2.0-12.0)

Lab Sample ID: 460-291365-14

Date Collected: 10/27/23 09:05

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.30	J N	mg/Kg	☼	7.83	N/A	11/01/23 16:15	1	MDJ
Unknown	0.53	J N	mg/Kg	☼	7.88	N/A	11/01/23 16:15	1	MDJ
Unknown	0.59	J N	mg/Kg	☼	7.91	N/A	11/01/23 16:15	1	MDJ
Unknown	0.41	J N	mg/Kg	☼	7.95	N/A	11/01/23 16:15	1	MDJ
Unknown	0.34	J N	mg/Kg	☼	8.01	N/A	11/01/23 16:15	1	MDJ
Unknown	0.60	J N	mg/Kg	☼	8.05	N/A	11/01/23 16:15	1	MDJ
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	0.67	J N	mg/Kg	☼	8.09	140-66-9	11/01/23 16:15	1	MDJ
Unknown	0.45	J N	mg/Kg	☼	8.13	N/A	11/01/23 16:15	1	MDJ
n-Hexadecanoic acid	0.34	J N	mg/Kg	☼	8.92	57-10-3	11/01/23 16:15	1	MDJ
Phenol, 4,4'-(1-methylethylidene)bis-	1.3	J N	mg/Kg	☼	9.82	80-05-7	11/01/23 16:15	1	MDJ
9-Tricosene, (Z)-	0.45	J N	mg/Kg	☼	11.72	27519-02-4	11/01/23 16:15	1	MDJ
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	63		24 - 137				11/01/23 16:15	1	MDJ
2-Fluorobiphenyl	79		48 - 120				11/01/23 16:15	1	MDJ
2-Fluorophenol (Surr)	77		31 - 120				11/01/23 16:15	1	MDJ
Nitrobenzene-d5 (Surr)	86		38 - 120				11/01/23 16:15	1	MDJ
Phenol-d5 (Surr)	83		39 - 120				11/01/23 16:15	1	MDJ
Terphenyl-d14 (Surr)	97		25 - 126				11/01/23 16:15	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	5230		19.6	5.4	mg/Kg	☼	11/09/23 21:12	1	CDC
Antimony	0.41	J	0.98	0.14	mg/Kg	☼	11/09/23 21:12	1	CDC
Arsenic	2.2		0.98	0.10	mg/Kg	☼	11/09/23 21:12	1	CDC
Barium	66.4		2.0	0.14	mg/Kg	☼	11/09/23 21:12	1	CDC
Beryllium	0.21	J	0.39	0.056	mg/Kg	☼	11/09/23 21:12	1	CDC
Cadmium	0.27	J	0.98	0.11	mg/Kg	☼	11/09/23 21:12	1	CDC
Calcium	22900	J	97.9	39.8	mg/Kg	☼	11/09/23 21:12	1	CDC
Chromium	19.9	J	2.0	0.89	mg/Kg	☼	11/09/23 21:12	1	CDC
Cobalt	5.9	J	2.0	0.14	mg/Kg	☼	11/09/23 21:12	1	CDC
Copper	44.2	J	2.0	0.36	mg/Kg	☼	11/09/23 21:12	1	CDC
Iron	12600		58.7	19.8	mg/Kg	☼	11/09/23 21:12	1	CDC
Lead	202	J	0.59	0.20	mg/Kg	☼	11/09/23 21:12	1	CDC
Magnesium	12500	J	97.9	10	mg/Kg	☼	11/09/23 21:12	1	CDC
Manganese	185		3.9	0.39	mg/Kg	☼	11/09/23 21:12	1	CDC
Nickel	15.6	J	2.0	0.46	mg/Kg	☼	11/09/23 21:12	1	CDC
Potassium	1730		97.9	15.9	mg/Kg	☼	11/09/23 21:12	1	CDC
Selenium	0.22	J	1.2	0.13	mg/Kg	☼	11/09/23 21:12	1	CDC
Silver	0.18	J	0.39	0.087	mg/Kg	☼	11/09/23 21:12	1	CDC
Sodium	155		97.9	44.7	mg/Kg	☼	11/09/23 21:12	1	CDC
Thallium	0.095	J	0.39	0.040	mg/Kg	☼	11/09/23 21:12	1	CDC
Vanadium	27.0	J	2.0	0.20	mg/Kg	☼	11/09/23 21:12	1	CDC
Zinc	103		7.8	3.0	mg/Kg	☼	11/09/23 21:12	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.24	J	0.017	0.0081	mg/Kg	☼	11/10/23 06:19	1	TJS

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (2.0-12.0)

Date Collected: 10/27/23 09:05

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-14

Matrix: Solid

Percent Solids: 98.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.18	J	0.23	0.13	mg/Kg	☆	11/08/23 23:39	1	VBG

Client Sample ID: SS-4 (0.0-2.0)

Date Collected: 10/27/23 09:14

Date Received: 10/27/23 17:17

Lab Sample ID: 460-291365-15

Matrix: Solid

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.00097	0.00023	mg/Kg	☆	11/04/23 15:06	1	AAT
1,1,2,2-Tetrachloroethane	0.00021	U	0.00097	0.00021	mg/Kg	☆	11/04/23 15:06	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00097	0.00029	mg/Kg	☆	11/04/23 15:06	1	AAT
1,1,2-Trichloroethane	0.00017	U	0.00097	0.00017	mg/Kg	☆	11/04/23 15:06	1	AAT
1,1-Dichloroethane	0.00020	U	0.00097	0.00020	mg/Kg	☆	11/04/23 15:06	1	AAT
1,1-Dichloroethene	0.00022	U	0.00097	0.00022	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2,3-Trichlorobenzene	0.00018	U	0.00097	0.00018	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2,4-Trichlorobenzene	0.00035	U	0.00097	0.00035	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2-Dibromo-3-Chloropropane	0.00045	U	0.00097	0.00045	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2-Dichlorobenzene	0.00035	U	0.00097	0.00035	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2-Dichloroethane	0.00029	U	0.00097	0.00029	mg/Kg	☆	11/04/23 15:06	1	AAT
1,2-Dichloropropane	0.00041	U	0.00097	0.00041	mg/Kg	☆	11/04/23 15:06	1	AAT
1,3-Dichlorobenzene	0.00035	U	0.00097	0.00035	mg/Kg	☆	11/04/23 15:06	1	AAT
1,4-Dichlorobenzene	0.00022	U	0.00097	0.00022	mg/Kg	☆	11/04/23 15:06	1	AAT
1,4-Dioxane	0.0089	U J	0.097	0.0089	mg/Kg	☆	11/04/23 15:06	1	AAT
2-Butanone (MEK)	0.0046	J	0.0048	0.00036	mg/Kg	☆	11/04/23 15:06	1	AAT
2-Hexanone	0.0017	U	0.0048	0.0017	mg/Kg	☆	11/04/23 15:06	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0048	0.0015	mg/Kg	☆	11/04/23 15:06	1	AAT
Acetone	0.026		0.0058	0.0055	mg/Kg	☆	11/04/23 15:06	1	AAT
Benzene	0.00025	U	0.00097	0.00025	mg/Kg	☆	11/04/23 15:06	1	AAT
Bromoform	0.00041	U	0.00097	0.00041	mg/Kg	☆	11/04/23 15:06	1	AAT
Bromomethane	0.00097	U	0.0019	0.00097	mg/Kg	☆	11/04/23 15:06	1	AAT
Carbon disulfide	0.00026	U J	0.00097	0.00026	mg/Kg	☆	11/04/23 15:06	1	AAT
Carbon tetrachloride	0.00037	U	0.00097	0.00037	mg/Kg	☆	11/04/23 15:06	1	AAT
Chlorobenzene	0.00017	U	0.00097	0.00017	mg/Kg	☆	11/04/23 15:06	1	AAT
Chlorobromomethane	0.00027	U	0.00097	0.00027	mg/Kg	☆	11/04/23 15:06	1	AAT
Chlorodibromomethane	0.00019	U	0.00097	0.00019	mg/Kg	☆	11/04/23 15:06	1	AAT
Chloroethane	0.00051	U	0.00097	0.00051	mg/Kg	☆	11/04/23 15:06	1	AAT
Chloroform	0.00094	U	0.00097	0.00094	mg/Kg	☆	11/04/23 15:06	1	AAT
Chloromethane	0.00042	U	0.00097	0.00042	mg/Kg	☆	11/04/23 15:06	1	AAT
cis-1,2-Dichloroethene	0.00035	U	0.00097	0.00035	mg/Kg	☆	11/04/23 15:06	1	AAT
cis-1,3-Dichloropropene	0.00026	U	0.00097	0.00026	mg/Kg	☆	11/04/23 15:06	1	AAT
Cyclohexane	0.00021	U	0.00097	0.00021	mg/Kg	☆	11/04/23 15:06	1	AAT
Dichlorobromomethane	0.00025	U	0.00097	0.00025	mg/Kg	☆	11/04/23 15:06	1	AAT
Dichlorodifluoromethane	0.00033	U	0.00097	0.00033	mg/Kg	☆	11/04/23 15:06	1	AAT
Ethylbenzene	0.00019	U	0.00097	0.00019	mg/Kg	☆	11/04/23 15:06	1	AAT
Ethylene Dibromide	0.00017	U	0.00097	0.00017	mg/Kg	☆	11/04/23 15:06	1	AAT
Isopropylbenzene	0.00028	U	0.00097	0.00028	mg/Kg	☆	11/04/23 15:06	1	AAT
Methyl acetate	0.0042	U ~~U~~ *1 JJ	0.0048	0.0042	mg/Kg	☆	11/04/23 15:06	1	AAT
Methyl tert-butyl ether	0.00050	U	0.00097	0.00050	mg/Kg	☆	11/04/23 15:06	1	AAT
Methylcyclohexane	0.00048	U	0.00097	0.00048	mg/Kg	☆	11/04/23 15:06	1	AAT
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☆	11/04/23 15:06	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (0.0-2.0)

Lab Sample ID: 460-291365-15

Date Collected: 10/27/23 09:14

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
m-Xylene & p-Xylene	0.00017	U	0.00097	0.00017	mg/Kg	☼	11/04/23 15:06	1	AAT
o-Xylene	0.00019	U	0.00097	0.00019	mg/Kg	☼	11/04/23 15:06	1	AAT
Styrene	0.00027	U	0.00097	0.00027	mg/Kg	☼	11/04/23 15:06	1	AAT
Tetrachloroethene	0.00030	U	0.00097	0.00030	mg/Kg	☼	11/04/23 15:06	1	AAT
Toluene	0.00023	U	0.00097	0.00023	mg/Kg	☼	11/04/23 15:06	1	AAT
trans-1,2-Dichloroethene	0.00024	U	0.00097	0.00024	mg/Kg	☼	11/04/23 15:06	1	AAT
trans-1,3-Dichloropropene	0.00026	U	0.00097	0.00026	mg/Kg	☼	11/04/23 15:06	1	AAT
Trichloroethene	0.00031	U	0.00097	0.00031	mg/Kg	☼	11/04/23 15:06	1	AAT
Trichlorofluoromethane	0.00039	U	0.00097	0.00039	mg/Kg	☼	11/04/23 15:06	1	AAT
Vinyl chloride	0.00053	U	0.00097	0.00053	mg/Kg	☼	11/04/23 15:06	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.038	J N	mg/Kg	☼	2.14	75-18-3	11/04/23 15:06	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		72 - 138	11/04/23 15:06	1	AAT
4-Bromofluorobenzene	100		63 - 139	11/04/23 15:06	1	AAT
Dibromofluoromethane (Surr)	111		54 - 150	11/04/23 15:06	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/04/23 15:06	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	11/01/23 16:38	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	11/01/23 16:38	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 16:38	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	11/01/23 16:38	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	11/01/23 16:38	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	11/01/23 16:38	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	11/01/23 16:38	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	11/01/23 16:38	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (0.0-2.0)

Lab Sample ID: 460-291365-15

Date Collected: 10/27/23 09:14

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthylene	0.011	J	0.33	0.0096	mg/Kg	☼	11/01/23 16:38	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 16:38	1	MDJ
Anthracene	0.045	J	0.33	0.010	mg/Kg	☼	11/01/23 16:38	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzo[a]anthracene	0.15		0.033	0.025	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzo[a]pyrene	0.14		0.033	0.0089	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzo[b]fluoranthene	0.21		0.033	0.0087	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzo[g,h,i]perylene	0.073	J	0.33	0.0099	mg/Kg	☼	11/01/23 16:38	1	MDJ
Benzo[k]fluoranthene	0.077		0.033	0.0066	mg/Kg	☼	11/01/23 16:38	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	11/01/23 16:38	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	11/01/23 16:38	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 16:38	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	11/01/23 16:38	1	MDJ
Carbazole	0.035	J	0.33	0.013	mg/Kg	☼	11/01/23 16:38	1	MDJ
Chrysene	0.17	J	0.33	0.014	mg/Kg	☼	11/01/23 16:38	1	MDJ
Dibenz(a,h)anthracene	0.028	J	0.033	0.014	mg/Kg	☼	11/01/23 16:38	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	11/01/23 16:38	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	11/01/23 16:38	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	11/01/23 16:38	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 16:38	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	11/01/23 16:38	1	MDJ
Fluoranthene	0.31	J	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
Fluorene	0.012	J	0.33	0.0098	mg/Kg	☼	11/01/23 16:38	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	11/01/23 16:38	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	11/01/23 16:38	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	☼	11/01/23 16:38	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	11/01/23 16:38	1	MDJ
Indeno[1,2,3-cd]pyrene	0.078		0.033	0.013	mg/Kg	☼	11/01/23 16:38	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	11/01/23 16:38	1	MDJ
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	11/01/23 16:38	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	11/01/23 16:38	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	11/01/23 16:38	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	11/01/23 16:38	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☼	11/01/23 16:38	1	MDJ
Phenanthrene	0.20	J	0.33	0.014	mg/Kg	☼	11/01/23 16:38	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 16:38	1	MDJ
Pyrene	0.31	J	0.33	0.0083	mg/Kg	☼	11/01/23 16:38	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
9-Hexacosene	0.63	J N	mg/Kg	☼	11.72	71502-22-2	11/01/23 16:38	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	74		24 - 137	11/01/23 16:38	1	MDJ
2-Fluorobiphenyl	88		48 - 120	11/01/23 16:38	1	MDJ
2-Fluorophenol (Surr)	90		31 - 120	11/01/23 16:38	1	MDJ
Nitrobenzene-d5 (Surr)	95		38 - 120	11/01/23 16:38	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	11/01/23 16:38	1	MDJ
Terphenyl-d14 (Surr)	105		25 - 126	11/01/23 16:38	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (0.0-2.0)

Lab Sample ID: 460-291365-15

Date Collected: 10/27/23 09:14

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.5

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	4030		18.6	5.1	mg/Kg	☆	11/09/23 21:15	1	CDC
Antimony	0.14	U J	0.93	0.14	mg/Kg	☆	11/09/23 21:15	1	CDC
Arsenic	1.3		0.93	0.096	mg/Kg	☆	11/09/23 21:15	1	CDC
Barium	29.3		1.9	0.14	mg/Kg	☆	11/09/23 21:15	1	CDC
Beryllium	0.24	J	0.37	0.053	mg/Kg	☆	11/09/23 21:15	1	CDC
Cadmium	0.11	U	0.93	0.11	mg/Kg	☆	11/09/23 21:15	1	CDC
Calcium	22100	J	93.1	37.9	mg/Kg	☆	11/09/23 21:15	1	CDC
Chromium	5.9	J	1.9	0.85	mg/Kg	☆	11/09/23 21:15	1	CDC
Cobalt	4.3	J	1.9	0.14	mg/Kg	☆	11/09/23 21:15	1	CDC
Copper	20.2	J	1.9	0.34	mg/Kg	☆	11/09/23 21:15	1	CDC
Iron	11800		55.9	18.8	mg/Kg	☆	11/09/23 21:15	1	CDC
Lead	8.1	J	0.56	0.19	mg/Kg	☆	11/09/23 21:15	1	CDC
Magnesium	13100	J	93.1	9.5	mg/Kg	☆	11/09/23 21:15	1	CDC
Manganese	161		3.7	0.38	mg/Kg	☆	11/09/23 21:15	1	CDC
Nickel	6.6	J	1.9	0.44	mg/Kg	☆	11/09/23 21:15	1	CDC
Potassium	1100		93.1	15.1	mg/Kg	☆	11/09/23 21:15	1	CDC
Selenium	0.12	J	1.2	0.12	mg/Kg	☆	11/09/23 21:15	1	CDC
Silver	0.085	J	0.37	0.083	mg/Kg	☆	11/09/23 21:15	1	CDC
Sodium	148		93.1	42.6	mg/Kg	☆	11/09/23 21:15	1	CDC
Thallium	0.066	J	0.37	0.038	mg/Kg	☆	11/09/23 21:15	1	CDC
Vanadium	28.6	J	1.9	0.19	mg/Kg	☆	11/09/23 21:15	1	CDC
Zinc	36.1		7.5	2.8	mg/Kg	☆	11/09/23 21:15	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.018	J	0.017	0.0080	mg/Kg	☆	11/10/23 06:21	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.25		0.24	0.13	mg/Kg	☆	11/08/23 23:40	1	VBG

Client Sample ID: SS-3 (12.0-24.0)

Lab Sample ID: 460-291365-16

Date Collected: 10/27/23 09:07

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00027	U	0.0012	0.00027	mg/Kg	☆	11/04/23 15:29	1	AAT
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☆	11/04/23 15:29	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0012	0.00035	mg/Kg	☆	11/04/23 15:29	1	AAT
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☆	11/04/23 15:29	1	AAT
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	☆	11/04/23 15:29	1	AAT
1,1-Dichloroethene	0.00026	U	0.0012	0.00026	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2-Dibromo-3-Chloropropane	0.00053	U	0.0012	0.00053	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2-Dichloroethane	0.00034	U	0.0012	0.00034	mg/Kg	☆	11/04/23 15:29	1	AAT
1,2-Dichloropropane	0.00049	U	0.0012	0.00049	mg/Kg	☆	11/04/23 15:29	1	AAT
1,3-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☆	11/04/23 15:29	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (12.0-24.0)

Lab Sample ID: 460-291365-16

Date Collected: 10/27/23 09:07

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,4-Dichlorobenzene	0.00026	U	0.0012	0.00026	mg/Kg	☼	11/04/23 15:29	1	AAT
1,4-Dioxane	0.011	U J	0.12	0.011	mg/Kg	☼	11/04/23 15:29	1	AAT
2-Butanone (MEK)	0.0049	J	0.0058	0.00043	mg/Kg	☼	11/04/23 15:29	1	AAT
2-Hexanone	0.0020	U	0.0058	0.0020	mg/Kg	☼	11/04/23 15:29	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0058	0.0018	mg/Kg	☼	11/04/23 15:29	1	AAT
Acetone	0.023		0.0070	0.0066	mg/Kg	☼	11/04/23 15:29	1	AAT
Benzene	0.00030	U	0.0012	0.00030	mg/Kg	☼	11/04/23 15:29	1	AAT
Bromoform	0.00049	U	0.0012	0.00049	mg/Kg	☼	11/04/23 15:29	1	AAT
Bromomethane	0.0012	U	0.0023	0.0012	mg/Kg	☼	11/04/23 15:29	1	AAT
Carbon disulfide	0.00031	U J	0.0012	0.00031	mg/Kg	☼	11/04/23 15:29	1	AAT
Carbon tetrachloride	0.00045	U	0.0012	0.00045	mg/Kg	☼	11/04/23 15:29	1	AAT
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	11/04/23 15:29	1	AAT
Chlorobromomethane	0.00033	U	0.0012	0.00033	mg/Kg	☼	11/04/23 15:29	1	AAT
Chlorodibromomethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	11/04/23 15:29	1	AAT
Chloroethane	0.00061	U	0.0012	0.00061	mg/Kg	☼	11/04/23 15:29	1	AAT
Chloroform	0.0011	U	0.0012	0.0011	mg/Kg	☼	11/04/23 15:29	1	AAT
Chloromethane	0.00051	U	0.0012	0.00051	mg/Kg	☼	11/04/23 15:29	1	AAT
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	☼	11/04/23 15:29	1	AAT
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	11/04/23 15:29	1	AAT
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	11/04/23 15:29	1	AAT
Dichlorobromomethane	0.00030	U	0.0012	0.00030	mg/Kg	☼	11/04/23 15:29	1	AAT
Dichlorodifluoromethane	0.00039	U	0.0012	0.00039	mg/Kg	☼	11/04/23 15:29	1	AAT
Ethylbenzene	0.00023	U	0.0012	0.00023	mg/Kg	☼	11/04/23 15:29	1	AAT
Ethylene Dibromide	0.00021	U	0.0012	0.00021	mg/Kg	☼	11/04/23 15:29	1	AAT
Isopropylbenzene	0.00033	U	0.0012	0.00033	mg/Kg	☼	11/04/23 15:29	1	AAT
Methyl acetate	0.0050	U *1 UJ	0.0058	0.0050	mg/Kg	☼	11/04/23 15:29	1	AAT
Methyl tert-butyl ether	0.00059	U	0.0012	0.00059	mg/Kg	☼	11/04/23 15:29	1	AAT
Methylcyclohexane	0.00058	U	0.0012	0.00058	mg/Kg	☼	11/04/23 15:29	1	AAT
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	☼	11/04/23 15:29	1	AAT
m-Xylene & p-Xylene	0.00020	U	0.0012	0.00020	mg/Kg	☼	11/04/23 15:29	1	AAT
o-Xylene	0.00023	U	0.0012	0.00023	mg/Kg	☼	11/04/23 15:29	1	AAT
Styrene	0.00032	U	0.0012	0.00032	mg/Kg	☼	11/04/23 15:29	1	AAT
Tetrachloroethene	0.00035	U	0.0012	0.00035	mg/Kg	☼	11/04/23 15:29	1	AAT
Toluene	0.00059	J	0.0012	0.00027	mg/Kg	☼	11/04/23 15:29	1	AAT
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	11/04/23 15:29	1	AAT
trans-1,3-Dichloropropene	0.00031	U	0.0012	0.00031	mg/Kg	☼	11/04/23 15:29	1	AAT
Trichloroethene	0.00037	U	0.0012	0.00037	mg/Kg	☼	11/04/23 15:29	1	AAT
Trichlorofluoromethane	0.00047	U	0.0012	0.00047	mg/Kg	☼	11/04/23 15:29	1	AAT
Vinyl chloride	0.00063	U	0.0012	0.00063	mg/Kg	☼	11/04/23 15:29	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.0083	J N	mg/Kg	☼	2.13	75-18-3	11/04/23 15:29	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	100		72 - 138	11/04/23 15:29	1	AAT
4-Bromofluorobenzene	100		63 - 139	11/04/23 15:29	1	AAT
Dibromofluoromethane (Surr)	105		54 - 150	11/04/23 15:29	1	AAT
Toluene-d8 (Surr)	99		71 - 126	11/04/23 15:29	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (12.0-24.0)

Lab Sample ID: 460-291365-16

Date Collected: 10/27/23 09:07

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	✱	11/01/23 17:01	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Methylnaphthalene	0.011	J	0.33	0.0093	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	✱	11/01/23 17:01	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	✱	11/01/23 17:01	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	✱	11/01/23 17:01	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 17:01	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	11/01/23 17:01	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	✱	11/01/23 17:01	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 17:01	1	MDJ
Acenaphthylene	0.092	J	0.33	0.0095	mg/Kg	✱	11/01/23 17:01	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 17:01	1	MDJ
Anthracene	0.033	J	0.33	0.010	mg/Kg	✱	11/01/23 17:01	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzo[a]anthracene	0.10		0.033	0.025	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzo[a]pyrene	0.16		0.033	0.0088	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzo[b]fluoranthene	0.24		0.033	0.0086	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzo[g,h,i]perylene	0.11	J	0.33	0.0098	mg/Kg	✱	11/01/23 17:01	1	MDJ
Benzo[k]fluoranthene	0.10		0.033	0.0065	mg/Kg	✱	11/01/23 17:01	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 17:01	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 17:01	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 17:01	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 17:01	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:01	1	MDJ
Chrysene	0.13	J	0.33	0.014	mg/Kg	✱	11/01/23 17:01	1	MDJ
Dibenz(a,h)anthracene	0.034		0.033	0.014	mg/Kg	✱	11/01/23 17:01	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 17:01	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 17:01	1	MDJ
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	✱	11/01/23 17:01	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (12.0-24.0)

Lab Sample ID: 460-291365-16

Date Collected: 10/27/23 09:07

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:01	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 17:01	1	MDJ
Fluoranthene	0.13	J	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
Fluorene	0.012	J	0.33	0.0097	mg/Kg	✱	11/01/23 17:01	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 17:01	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	11/01/23 17:01	1	MDJ
Hexachlorocyclopentadiene	R 0.020	U *	0.33	0.020	mg/Kg	✱	11/01/23 17:01	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	✱	11/01/23 17:01	1	MDJ
Indeno[1,2,3-cd]pyrene	0.11		0.033	0.013	mg/Kg	✱	11/01/23 17:01	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	✱	11/01/23 17:01	1	MDJ
Naphthalene	0.017	J	0.33	0.0057	mg/Kg	✱	11/01/23 17:01	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	✱	11/01/23 17:01	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	✱	11/01/23 17:01	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	✱	11/01/23 17:01	1	MDJ
Pentachlorophenol	0.068	U J	0.27	0.068	mg/Kg	✱	11/01/23 17:01	1	MDJ
Phenanthrene	0.050	J	0.33	0.014	mg/Kg	✱	11/01/23 17:01	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:01	1	MDJ
Pyrene	0.19	J	0.33	0.0083	mg/Kg	✱	11/01/23 17:01	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.84	J N	mg/Kg	✱	2.02	N/A	11/01/23 17:01	1	MDJ
Unknown	0.44	J N	mg/Kg	✱	4.50	N/A	11/01/23 17:01	1	MDJ
Unknown	0.33	J N	mg/Kg	✱	4.75	N/A	11/01/23 17:01	1	MDJ
Unknown	0.30	J N	mg/Kg	✱	4.97	N/A	11/01/23 17:01	1	MDJ
Tetradecanoic acid	1.6	J N	mg/Kg	✱	8.10	544-63-8	11/01/23 17:01	1	MDJ
Unknown	0.62	J N	mg/Kg	✱	8.88	N/A	11/01/23 17:01	1	MDJ
n-Hexadecanoic acid	16	J N	mg/Kg	✱	8.96	57-10-3	11/01/23 17:01	1	MDJ
6-Octadecenoic acid, (Z)-	7.8	J N	mg/Kg	✱	9.63	593-39-5	11/01/23 17:01	1	MDJ
Cyclooctene, 3-methyl-	1.1	J N	mg/Kg	✱	10.35	13152-05-1	11/01/23 17:01	1	MDJ
Unknown	2.7	J N	mg/Kg	✱	10.43	N/A	11/01/23 17:01	1	MDJ
Docosanoic acid	0.69	J N	mg/Kg	✱	11.18	112-85-6	11/01/23 17:01	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	69		24 - 137	11/01/23 17:01	1	MDJ
2-Fluorobiphenyl	84		48 - 120	11/01/23 17:01	1	MDJ
2-Fluorophenol (Surr)	85		31 - 120	11/01/23 17:01	1	MDJ
Nitrobenzene-d5 (Surr)	89		38 - 120	11/01/23 17:01	1	MDJ
Phenol-d5 (Surr)	92		39 - 120	11/01/23 17:01	1	MDJ
Terphenyl-d14 (Surr)	101		25 - 126	11/01/23 17:01	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	3630		19.2	5.3	mg/Kg	✱	11/09/23 21:17	1	CDC
Antimony	0.73	J	0.96	0.14	mg/Kg	✱	11/09/23 21:17	1	CDC
Arsenic	2.7		0.96	0.099	mg/Kg	✱	11/09/23 21:17	1	CDC
Barium	44.5		1.9	0.14	mg/Kg	✱	11/09/23 21:17	1	CDC
Beryllium	0.17	J	0.38	0.055	mg/Kg	✱	11/09/23 21:17	1	CDC
Cadmium	0.35	J	0.96	0.11	mg/Kg	✱	11/09/23 21:17	1	CDC
Calcium	25900	J	96.2	39.1	mg/Kg	✱	11/09/23 21:17	1	CDC
Chromium	58.6	J	1.9	0.87	mg/Kg	✱	11/09/23 21:17	1	CDC

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-3 (12.0-24.0)

Lab Sample ID: 460-291365-16

Date Collected: 10/27/23 09:07

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cobalt	4.6	J	1.9	0.14	mg/Kg	✱	11/09/23 21:17	1	CDC
Copper	22.7	J	1.9	0.35	mg/Kg	✱	11/09/23 21:17	1	CDC
Iron	10900		57.7	19.4	mg/Kg	✱	11/09/23 21:17	1	CDC
Lead	307	J	0.58	0.19	mg/Kg	✱	11/09/23 21:17	1	CDC
Magnesium	14800	J	96.2	9.8	mg/Kg	✱	11/09/23 21:17	1	CDC
Manganese	187		3.8	0.39	mg/Kg	✱	11/09/23 21:17	1	CDC
Nickel	12.6	J	1.9	0.45	mg/Kg	✱	11/09/23 21:17	1	CDC
Potassium	1060		96.2	15.6	mg/Kg	✱	11/09/23 21:17	1	CDC
Selenium	0.14	J	1.2	0.12	mg/Kg	✱	11/09/23 21:17	1	CDC
Silver	0.17	J	0.38	0.086	mg/Kg	✱	11/09/23 21:17	1	CDC
Sodium	100		96.2	44.0	mg/Kg	✱	11/09/23 21:17	1	CDC
Thallium	0.075	J	0.38	0.039	mg/Kg	✱	11/09/23 21:17	1	CDC
Vanadium	22.1	J	1.9	0.20	mg/Kg	✱	11/09/23 21:17	1	CDC
Zinc	90.5		7.7	2.9	mg/Kg	✱	11/09/23 21:17	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.12	J	0.017	0.0079	mg/Kg	✱	11/10/23 06:26	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	1.2		0.21	0.11	mg/Kg	✱	11/08/23 23:41	1	VBG

Client Sample ID: SS-4 (2.0-12.0)

Lab Sample ID: 460-291365-17

Date Collected: 10/27/23 09:18

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 02:24	1	AAT
1,1,2,2-Tetrachloroethane	0.00019	UF1 UJ	0.00087	0.00019	mg/Kg	✱	11/04/23 02:24	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00087	0.00026	mg/Kg	✱	11/04/23 02:24	1	AAT
1,1,2-Trichloroethane	0.00016	UF1 UJ	0.00087	0.00016	mg/Kg	✱	11/04/23 02:24	1	AAT
1,1-Dichloroethane	0.00018	U	0.00087	0.00018	mg/Kg	✱	11/04/23 02:24	1	AAT
1,1-Dichloroethene	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2,3-Trichlorobenzene	0.00016	UF1 UJ	0.00087	0.00016	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2,4-Trichlorobenzene	0.00031	UF1 UJ	0.00087	0.00031	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2-Dibromo-3-Chloropropane	0.00040	UF1 UJ	0.00087	0.00040	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2-Dichlorobenzene	0.00031	UF1 UJ	0.00087	0.00031	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2-Dichloroethane	0.00026	U	0.00087	0.00026	mg/Kg	✱	11/04/23 02:24	1	AAT
1,2-Dichloropropane	0.00037	U	0.00087	0.00037	mg/Kg	✱	11/04/23 02:24	1	AAT
1,3-Dichlorobenzene	0.00032	UF1 UJ	0.00087	0.00032	mg/Kg	✱	11/04/23 02:24	1	AAT
1,4-Dichlorobenzene	0.00020	UF1 UJ	0.00087	0.00020	mg/Kg	✱	11/04/23 02:24	1	AAT
1,4-Dioxane	0.0080	U	0.087	0.0080	mg/Kg	✱	11/04/23 02:24	1	AAT
2-Butanone (MEK)	0.00032	U	0.0044	0.00032	mg/Kg	✱	11/04/23 02:24	1	AAT
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	✱	11/04/23 02:24	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	✱	11/04/23 02:24	1	AAT
Acetone	0.0050	U	0.0052	0.0050	mg/Kg	✱	11/04/23 02:24	1	AAT
Benzene	0.00023	U	0.00087	0.00023	mg/Kg	✱	11/04/23 02:24	1	AAT
Bromoform	0.00037	U	0.00087	0.00037	mg/Kg	✱	11/04/23 02:24	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (2.0-12.0)

Lab Sample ID: 460-291365-17

Date Collected: 10/27/23 09:18

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bromomethane	0.00087	U	0.0017	0.00087	mg/Kg	☼	11/04/23 02:24	1	AAT
Carbon disulfide	0.00023	~~U~~ F1 UJ	0.00087	0.00023	mg/Kg	☼	11/04/23 02:24	1	AAT
Carbon tetrachloride	0.00034	U	0.00087	0.00034	mg/Kg	☼	11/04/23 02:24	1	AAT
Chlorobenzene	0.00015	~~U~~ F1 UJ	0.00087	0.00015	mg/Kg	☼	11/04/23 02:24	1	AAT
Chlorobromomethane	0.00025	U	0.00087	0.00025	mg/Kg	☼	11/04/23 02:24	1	AAT
Chlorodibromomethane	0.00017	U	0.00087	0.00017	mg/Kg	☼	11/04/23 02:24	1	AAT
Chloroethane	0.00046	U	0.00087	0.00046	mg/Kg	☼	11/04/23 02:24	1	AAT
Chloroform	0.00085	U	0.00087	0.00085	mg/Kg	☼	11/04/23 02:24	1	AAT
Chloromethane	0.00038	~~U~~ F2 UJ	0.00087	0.00038	mg/Kg	☼	11/04/23 02:24	1	AAT
cis-1,2-Dichloroethene	0.00031	U	0.00087	0.00031	mg/Kg	☼	11/04/23 02:24	1	AAT
cis-1,3-Dichloropropene	0.00024	~~U~~ F1 UJ	0.00087	0.00024	mg/Kg	☼	11/04/23 02:24	1	AAT
Cyclohexane	0.00019	~~U~~ F1 UJ	0.00087	0.00019	mg/Kg	☼	11/04/23 02:24	1	AAT
Dichlorobromomethane	0.00022	U	0.00087	0.00022	mg/Kg	☼	11/04/23 02:24	1	AAT
Dichlorodifluoromethane	0.00029	U	0.00087	0.00029	mg/Kg	☼	11/04/23 02:24	1	AAT
Ethylbenzene	0.00017	~~U~~ F1 UJ	0.00087	0.00017	mg/Kg	☼	11/04/23 02:24	1	AAT
Ethylene Dibromide	0.00016	~~U~~ F1 UJ	0.00087	0.00016	mg/Kg	☼	11/04/23 02:24	1	AAT
Isopropylbenzene	0.00025	~~U~~ F1 UJ	0.00087	0.00025	mg/Kg	☼	11/04/23 02:24	1	AAT
Methyl acetate	0.0038	~~U~~ F1	0.0044	0.0038	mg/Kg	☼	11/04/23 02:24	1	AAT
Methyl tert-butyl ether	0.00045	U	0.00087	0.00045	mg/Kg	☼	11/04/23 02:24	1	AAT
Methylcyclohexane	0.00044	~~U~~ F1 UJ	0.00087	0.00044	mg/Kg	☼	11/04/23 02:24	1	AAT
Methylene Chloride	0.0010	U	0.0017	0.0010	mg/Kg	☼	11/04/23 02:24	1	AAT
m-Xylene & p-Xylene	0.00015	~~U~~ F1 UJ	0.00087	0.00015	mg/Kg	☼	11/04/23 02:24	1	AAT
o-Xylene	0.00017	~~U~~ F1 UJ	0.00087	0.00017	mg/Kg	☼	11/04/23 02:24	1	AAT
Styrene	0.00024	~~U~~ F1 UJ	0.00087	0.00024	mg/Kg	☼	11/04/23 02:24	1	AAT
Tetrachloroethene	0.00027	~~U~~ F1 UJ	0.00087	0.00027	mg/Kg	☼	11/04/23 02:24	1	AAT
Toluene	0.00020	~~U~~ F1 UJ	0.00087	0.00020	mg/Kg	☼	11/04/23 02:24	1	AAT
trans-1,2-Dichloroethene	0.00021	U	0.00087	0.00021	mg/Kg	☼	11/04/23 02:24	1	AAT
trans-1,3-Dichloropropene	0.00023	~~U~~ F1 UJ	0.00087	0.00023	mg/Kg	☼	11/04/23 02:24	1	AAT
Trichloroethene	0.00028	~~U~~ F1 UJ	0.00087	0.00028	mg/Kg	☼	11/04/23 02:24	1	AAT
Trichlorofluoromethane	0.00035	U	0.00087	0.00035	mg/Kg	☼	11/04/23 02:24	1	AAT
Vinyl chloride	0.00048	U	0.00087	0.00048	mg/Kg	☼	11/04/23 02:24	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/04/23 02:24	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	98		72 - 138	11/04/23 02:24	1	AAT
4-Bromofluorobenzene	101		63 - 139	11/04/23 02:24	1	AAT
Dibromofluoromethane (Surr)	107		54 - 150	11/04/23 02:24	1	AAT
Toluene-d8 (Surr)	102		71 - 126	11/04/23 02:24	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 17:24	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	11/01/23 17:24	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	☼	11/01/23 17:24	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	☼	11/01/23 17:24	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	11/01/23 17:24	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	11/01/23 17:24	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	11/01/23 17:24	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (2.0-12.0)

Lab Sample ID: 460-291365-17

Date Collected: 10/27/23 09:18

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 17:24	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 17:24	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	✱	11/01/23 17:24	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	✱	11/01/23 17:24	1	MDJ
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	✱	11/01/23 17:24	1	MDJ
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	✱	11/01/23 17:24	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 17:24	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	✱	11/01/23 17:24	1	MDJ
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	✱	11/01/23 17:24	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	✱	11/01/23 17:24	1	MDJ
Acenaphthylene	0.037	J	0.33	0.0095	mg/Kg	✱	11/01/23 17:24	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 17:24	1	MDJ
Anthracene	0.030	J	0.33	0.010	mg/Kg	✱	11/01/23 17:24	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzo[a]anthracene	0.11		0.033	0.025	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzo[a]pyrene	0.14		0.033	0.0089	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzo[b]fluoranthene	0.19		0.033	0.0086	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzo[g,h,i]perylene	0.067	J	0.33	0.0098	mg/Kg	✱	11/01/23 17:24	1	MDJ
Benzo[k]fluoranthene	0.064		0.033	0.0065	mg/Kg	✱	11/01/23 17:24	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 17:24	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	✱	11/01/23 17:24	1	MDJ
Bis(2-ethylhexyl) phthalate	0.026	J	0.33	0.018	mg/Kg	✱	11/01/23 17:24	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	✱	11/01/23 17:24	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	✱	11/01/23 17:24	1	MDJ
Carbazole	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:24	1	MDJ
Chrysene	0.12	J	0.33	0.014	mg/Kg	✱	11/01/23 17:24	1	MDJ
Dibenz(a,h)anthracene	0.023	J	0.033	0.014	mg/Kg	✱	11/01/23 17:24	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 17:24	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	✱	11/01/23 17:24	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	✱	11/01/23 17:24	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 17:24	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	✱	11/01/23 17:24	1	MDJ
Fluoranthene	0.16	J	0.33	0.012	mg/Kg	✱	11/01/23 17:24	1	MDJ
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	✱	11/01/23 17:24	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	✱	11/01/23 17:24	1	MDJ
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	✱	11/01/23 17:24	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	✱	11/01/23 17:24	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (2.0-12.0)

Lab Sample ID: 460-291365-17

Date Collected: 10/27/23 09:18

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	11/01/23 17:24	1	MDJ
Indeno[1,2,3-cd]pyrene	0.073		0.033	0.013	mg/Kg	☼	11/01/23 17:24	1	MDJ
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	11/01/23 17:24	1	MDJ
Naphthalene	0.0079	J	0.33	0.0058	mg/Kg	☼	11/01/23 17:24	1	MDJ
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	11/01/23 17:24	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	11/01/23 17:24	1	MDJ
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	11/01/23 17:24	1	MDJ
Pentachlorophenol	0.068	U J	0.27	0.068	mg/Kg	☼	11/01/23 17:24	1	MDJ
Phenanthrene	0.066	J	0.33	0.014	mg/Kg	☼	11/01/23 17:24	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 17:24	1	MDJ
Pyrene	0.21	J	0.33	0.0083	mg/Kg	☼	11/01/23 17:24	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	☼		N/A	11/01/23 17:24	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	74		24 - 137	11/01/23 17:24	1	MDJ
2-Fluorobiphenyl	88		48 - 120	11/01/23 17:24	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	11/01/23 17:24	1	MDJ
Nitrobenzene-d5 (Surr)	92		38 - 120	11/01/23 17:24	1	MDJ
Phenol-d5 (Surr)	96		39 - 120	11/01/23 17:24	1	MDJ
Terphenyl-d14 (Surr)	104		25 - 126	11/01/23 17:24	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	7110		20.2	5.5	mg/Kg	☼	11/09/23 20:25	1	CDC
Antimony	0.15	~~U~~ F1 UJ	1.0	0.15	mg/Kg	☼	11/09/23 20:25	1	CDC
Arsenic	2.7		1.0	0.10	mg/Kg	☼	11/09/23 20:25	1	CDC
Barium	51.3		2.0	0.15	mg/Kg	☼	11/09/23 20:25	1	CDC
Beryllium	0.42		0.40	0.058	mg/Kg	☼	11/09/23 20:25	1	CDC
Cadmium	0.13	J	1.0	0.11	mg/Kg	☼	11/09/23 20:25	1	CDC
Calcium	19600	J	101	41.1	mg/Kg	☼	11/09/23 20:25	1	CDC
Chromium	18.2	~~F2 F1~~ J	2.0	0.92	mg/Kg	☼	11/09/23 20:25	1	CDC
Cobalt	6.0	~~F2 F1~~ J	2.0	0.15	mg/Kg	☼	11/09/23 20:25	1	CDC
Copper	33.8	~~F1~~ J	2.0	0.37	mg/Kg	☼	11/09/23 20:25	1	CDC
Iron	18300		60.6	20.4	mg/Kg	☼	11/09/23 20:25	1	CDC
Lead	16.6	~~F1~~ J	0.61	0.20	mg/Kg	☼	11/09/23 20:25	1	CDC
Magnesium	12700	J	101	10.3	mg/Kg	☼	11/09/23 20:25	1	CDC
Manganese	249		4.0	0.41	mg/Kg	☼	11/09/23 20:25	1	CDC
Nickel	10.1	~~F2 F1~~ J	2.0	0.47	mg/Kg	☼	11/09/23 20:25	1	CDC
Potassium	1930		101	16.4	mg/Kg	☼	11/09/23 20:25	1	CDC
Selenium	0.23	J	1.3	0.13	mg/Kg	☼	11/09/23 20:25	1	CDC
Silver	0.090	U	0.40	0.090	mg/Kg	☼	11/09/23 20:25	1	CDC
Sodium	158		101	46.2	mg/Kg	☼	11/09/23 20:25	1	CDC
Thallium	0.17	J	0.40	0.041	mg/Kg	☼	11/09/23 20:25	1	CDC
Vanadium	35.5	~~F1~~ J	2.0	0.21	mg/Kg	☼	11/09/23 20:25	1	CDC
Zinc	54.7		8.1	3.1	mg/Kg	☼	11/09/23 20:25	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-4 (2.0-12.0)

Lab Sample ID: 460-291365-17

Date Collected: 10/27/23 09:18

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 99.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.038	F ~~A~~ J	0.016	0.0075	mg/Kg	☆	11/10/23 06:08	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.13	U F ~~A~~	0.23	0.13	mg/Kg	☆	11/08/23 23:30	1	VBG

Client Sample ID: DUP-20231027

Lab Sample ID: 460-291365-18

Date Collected: 10/27/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg	☆	11/04/23 15:52	1	AAT
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 15:52	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☆	11/04/23 15:52	1	AAT
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 15:52	1	AAT
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☆	11/04/23 15:52	1	AAT
1,1-Dichloroethene	0.00022	U	0.0010	0.00022	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2-Dichloroethane	0.00029	U	0.0010	0.00029	mg/Kg	☆	11/04/23 15:52	1	AAT
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☆	11/04/23 15:52	1	AAT
1,3-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 15:52	1	AAT
1,4-Dichlorobenzene	0.00022	U	0.0010	0.00022	mg/Kg	☆	11/04/23 15:52	1	AAT
1,4-Dioxane	0.0091	U J	0.10	0.0091	mg/Kg	☆	11/04/23 15:52	1	AAT
2-Butanone (MEK)	0.0049	J	0.0050	0.00037	mg/Kg	☆	11/04/23 15:52	1	AAT
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg	☆	11/04/23 15:52	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0050	0.0015	mg/Kg	☆	11/04/23 15:52	1	AAT
Acetone	0.019		0.0060	0.0057	mg/Kg	☆	11/04/23 15:52	1	AAT
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 15:52	1	AAT
Bromoform	0.00042	U	0.0010	0.00042	mg/Kg	☆	11/04/23 15:52	1	AAT
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☆	11/04/23 15:52	1	AAT
Carbon disulfide	0.00026	U J	0.0010	0.00026	mg/Kg	☆	11/04/23 15:52	1	AAT
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☆	11/04/23 15:52	1	AAT
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 15:52	1	AAT
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 15:52	1	AAT
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg	☆	11/04/23 15:52	1	AAT
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☆	11/04/23 15:52	1	AAT
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg	☆	11/04/23 15:52	1	AAT
Chloromethane	0.00043	U	0.0010	0.00043	mg/Kg	☆	11/04/23 15:52	1	AAT
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☆	11/04/23 15:52	1	AAT
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☆	11/04/23 15:52	1	AAT
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☆	11/04/23 15:52	1	AAT
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg	☆	11/04/23 15:52	1	AAT
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☆	11/04/23 15:52	1	AAT
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☆	11/04/23 15:52	1	AAT
Ethylene Dibromide	0.00018	U	0.0010	0.00018	mg/Kg	☆	11/04/23 15:52	1	AAT
Isopropylbenzene	0.00028	U	0.0010	0.00028	mg/Kg	☆	11/04/23 15:52	1	AAT

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: DUP-20231027

Lab Sample ID: 460-291365-18

Date Collected: 10/27/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Methyl acetate	0.0043	U+*+* UJ	0.0050	0.0043	mg/Kg	✱	11/04/23 15:52	1	AAT
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	✱	11/04/23 15:52	1	AAT
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg	✱	11/04/23 15:52	1	AAT
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	✱	11/04/23 15:52	1	AAT
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg	✱	11/04/23 15:52	1	AAT
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	✱	11/04/23 15:52	1	AAT
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	✱	11/04/23 15:52	1	AAT
Tetrachloroethene	0.00030	U	0.0010	0.00030	mg/Kg	✱	11/04/23 15:52	1	AAT
Toluene	0.00040	J	0.0010	0.00023	mg/Kg	✱	11/04/23 15:52	1	AAT
trans-1,2-Dichloroethene	0.00024	U	0.0010	0.00024	mg/Kg	✱	11/04/23 15:52	1	AAT
trans-1,3-Dichloropropene	0.00026	U	0.0010	0.00026	mg/Kg	✱	11/04/23 15:52	1	AAT
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	✱	11/04/23 15:52	1	AAT
Trichlorofluoromethane	0.00040	U	0.0010	0.00040	mg/Kg	✱	11/04/23 15:52	1	AAT
Vinyl chloride	0.00054	U	0.0010	0.00054	mg/Kg	✱	11/04/23 15:52	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.0061	J N	mg/Kg	✱	2.14	75-18-3	11/04/23 15:52	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	96		72 - 138	11/04/23 15:52	1	AAT
4-Bromofluorobenzene	100		63 - 139	11/04/23 15:52	1	AAT
Dibromofluoromethane (Surr)	111		54 - 150	11/04/23 15:52	1	AAT
Toluene-d8 (Surr)	101		71 - 126	11/04/23 15:52	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 18:32	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.33	0.020	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 18:32	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Methylnaphthalene	0.012	J	0.33	0.0094	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	✱	11/01/23 18:32	1	MDJ
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	✱	11/01/23 18:32	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	✱	11/01/23 18:32	1	MDJ
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	✱	11/01/23 18:32	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	✱	11/01/23 18:32	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	✱	11/01/23 18:32	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	✱	11/01/23 18:32	1	MDJ
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	✱	11/01/23 18:32	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	✱	11/01/23 18:32	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: DUP-20231027

Lab Sample ID: 460-291365-18

Date Collected: 10/27/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	11/01/23 18:32	1	MDJ
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	11/01/23 18:32	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	11/01/23 18:32	1	MDJ
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	11/01/23 18:32	1	MDJ
Acenaphthylene	0.12	J	0.33	0.0096	mg/Kg	☼	11/01/23 18:32	1	MDJ
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 18:32	1	MDJ
Anthracene	0.056	J	0.33	0.010	mg/Kg	☼	11/01/23 18:32	1	MDJ
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzaldehyde	0.055	U J	0.33	0.055	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzo[a]anthracene	0.18		0.033	0.025	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzo[a]pyrene	0.23		0.033	0.0089	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzo[b]fluoranthene	0.35		0.033	0.0087	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzo[g,h,i]perylene	0.15	J	0.33	0.0099	mg/Kg	☼	11/01/23 18:32	1	MDJ
Benzo[k]fluoranthene	0.13		0.033	0.0066	mg/Kg	☼	11/01/23 18:32	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	11/01/23 18:32	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	11/01/23 18:32	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	11/01/23 18:32	1	MDJ
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	11/01/23 18:32	1	MDJ
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	11/01/23 18:32	1	MDJ
Carbazole	0.014	J	0.33	0.013	mg/Kg	☼	11/01/23 18:32	1	MDJ
Chrysene	0.23	J	0.33	0.014	mg/Kg	☼	11/01/23 18:32	1	MDJ
Dibenz(a,h)anthracene	0.046		0.033	0.014	mg/Kg	☼	11/01/23 18:32	1	MDJ
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	11/01/23 18:32	1	MDJ
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	11/01/23 18:32	1	MDJ
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	11/01/23 18:32	1	MDJ
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	11/01/23 18:32	1	MDJ
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	11/01/23 18:32	1	MDJ
Fluoranthene	0.25	J	0.33	0.012	mg/Kg	☼	11/01/23 18:32	1	MDJ
Fluorene	0.017	J	0.33	0.0098	mg/Kg	☼	11/01/23 18:32	1	MDJ
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	11/01/23 18:32	1	MDJ
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	11/01/23 18:32	1	MDJ
Hexachlorocyclopentadiene	R 0.029	U *	0.33	0.029	mg/Kg	☼	11/01/23 18:32	1	MDJ
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	11/01/23 18:32	1	MDJ
Indeno[1,2,3-cd]pyrene	0.15		0.033	0.013	mg/Kg	☼	11/01/23 18:32	1	MDJ
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	11/01/23 18:32	1	MDJ
Naphthalene	0.023	J	0.33	0.0058	mg/Kg	☼	11/01/23 18:32	1	MDJ
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	11/01/23 18:32	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	11/01/23 18:32	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	11/01/23 18:32	1	MDJ
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☼	11/01/23 18:32	1	MDJ
Phenanthrene	0.12	J	0.33	0.014	mg/Kg	☼	11/01/23 18:32	1	MDJ
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	11/01/23 18:32	1	MDJ
Pyrene	0.37		0.33	0.0083	mg/Kg	☼	11/01/23 18:32	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Unknown	0.96	J N	mg/Kg	☼	2.02	N/A	11/01/23 18:32	1	MDJ
Unknown	0.43	J N	mg/Kg	☼	4.49	N/A	11/01/23 18:32	1	MDJ
Unknown	0.36	J N	mg/Kg	☼	4.75	N/A	11/01/23 18:32	1	MDJ
Unknown	0.29	J N	mg/Kg	☼	4.97	N/A	11/01/23 18:32	1	MDJ
Tetradecanoic acid	1.3	J N	mg/Kg	☼	8.10	544-63-8	11/01/23 18:32	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: DUP-20231027

Lab Sample ID: 460-291365-18

Date Collected: 10/27/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.9

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
9-Octadecenoic acid, (E)-	0.54	J N	mg/Kg	☼	8.88	112-79-8	11/01/23 18:32	1	MDJ
n-Hexadecanoic acid	13	J N	mg/Kg	☼	8.97	57-10-3	11/01/23 18:32	1	MDJ
6-Octadecenoic acid, (Z)-	6.7	J N	mg/Kg	☼	9.63	593-39-5	11/01/23 18:32	1	MDJ
2-Methyl-Z,Z-3,13-octadecadienol	0.88	J N	mg/Kg	☼	10.35	1000130-90-5	11/01/23 18:32	1	MDJ
Unknown	2.1	J N	mg/Kg	☼	10.43	N/A	11/01/23 18:32	1	MDJ
Docosanoic acid	0.52	J N	mg/Kg	☼	11.18	112-85-6	11/01/23 18:32	1	MDJ
Cyclopentane, (4-octyldodecyl)-	0.64	J N	mg/Kg	☼	11.73	5638-09-5	11/01/23 18:32	1	MDJ
Heptacosane	2.2	J N	mg/Kg	☼	12.60	593-49-7	11/01/23 18:32	1	MDJ
Heneicosane	1.6	J N	mg/Kg	☼	13.54	629-94-7	11/01/23 18:32	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	64		24 - 137	11/01/23 18:32	1	MDJ
2-Fluorobiphenyl	79		48 - 120	11/01/23 18:32	1	MDJ
2-Fluorophenol (Surr)	80		31 - 120	11/01/23 18:32	1	MDJ
Nitrobenzene-d5 (Surr)	82		38 - 120	11/01/23 18:32	1	MDJ
Phenol-d5 (Surr)	85		39 - 120	11/01/23 18:32	1	MDJ
Terphenyl-d14 (Surr)	96		25 - 126	11/01/23 18:32	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	3480		19.1	5.2	mg/Kg	☼	11/09/23 21:20	1	CDC
Antimony	0.41	J	0.95	0.14	mg/Kg	☼	11/09/23 21:20	1	CDC
Arsenic	2.3		0.95	0.098	mg/Kg	☼	11/09/23 21:20	1	CDC
Barium	41.8		1.9	0.14	mg/Kg	☼	11/09/23 21:20	1	CDC
Beryllium	0.12	J	0.38	0.054	mg/Kg	☼	11/09/23 21:20	1	CDC
Cadmium	0.20	J	0.95	0.11	mg/Kg	☼	11/09/23 21:20	1	CDC
Calcium	14200	J	95.4	38.8	mg/Kg	☼	11/09/23 21:20	1	CDC
Chromium	15.7	J	1.9	0.87	mg/Kg	☼	11/09/23 21:20	1	CDC
Cobalt	5.2	J	1.9	0.14	mg/Kg	☼	11/09/23 21:20	1	CDC
Copper	58.7	J	1.9	0.35	mg/Kg	☼	11/09/23 21:20	1	CDC
Iron	11800		57.2	19.3	mg/Kg	☼	11/09/23 21:20	1	CDC
Lead	100	J	0.57	0.19	mg/Kg	☼	11/09/23 21:20	1	CDC
Magnesium	7550	J	95.4	9.7	mg/Kg	☼	11/09/23 21:20	1	CDC
Manganese	170		3.8	0.38	mg/Kg	☼	11/09/23 21:20	1	CDC
Nickel	9.5	J	1.9	0.45	mg/Kg	☼	11/09/23 21:20	1	CDC
Potassium	1090		95.4	15.5	mg/Kg	☼	11/09/23 21:20	1	CDC
Selenium	0.19	J	1.2	0.12	mg/Kg	☼	11/09/23 21:20	1	CDC
Silver	0.11	J	0.38	0.085	mg/Kg	☼	11/09/23 21:20	1	CDC
Sodium	103		95.4	43.6	mg/Kg	☼	11/09/23 21:20	1	CDC
Thallium	0.058	J	0.38	0.039	mg/Kg	☼	11/09/23 21:20	1	CDC
Vanadium	19.9	J	1.9	0.20	mg/Kg	☼	11/09/23 21:20	1	CDC
Zinc	66.2		7.6	2.9	mg/Kg	☼	11/09/23 21:20	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.10	J	0.016	0.0076	mg/Kg	☼	11/10/23 06:28	1	TJS

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: DUP-20231027

Lab Sample ID: 460-291365-18

Date Collected: 10/27/23 00:00

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 98.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	1.4		0.23	0.13	mg/Kg	☆	11/08/23 23:42	1	VBG

Client Sample ID: Trip Blank

Lab Sample ID: 460-291365-19

Date Collected: 10/27/23 00:00

Matrix: Water

Date Received: 10/27/23 17:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L		10/31/23 11:35	1	CJM
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L		10/31/23 11:35	1	CJM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L		10/31/23 11:35	1	CJM
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L		10/31/23 11:35	1	CJM
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L		10/31/23 11:35	1	CJM
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L		10/31/23 11:35	1	CJM
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L		10/31/23 11:35	1	CJM
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L		10/31/23 11:35	1	CJM
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L		10/31/23 11:35	1	CJM
1,2-Dichlorobenzene	0.21	U	1.0	0.21	ug/L		10/31/23 11:35	1	CJM
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L		10/31/23 11:35	1	CJM
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L		10/31/23 11:35	1	CJM
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L		10/31/23 11:35	1	CJM
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L		10/31/23 11:35	1	CJM
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L		10/31/23 11:35	1	CJM
2-Hexanone	1.1	U	5.0	1.1	ug/L		10/31/23 11:35	1	CJM
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L		10/31/23 11:35	1	CJM
Acetone	4.4	U J	5.0	4.4	ug/L		10/31/23 11:35	1	CJM
Benzene	0.20	U	1.0	0.20	ug/L		10/31/23 11:35	1	CJM
Bromoform	0.54	U	1.0	0.54	ug/L		10/31/23 11:35	1	CJM
Bromomethane	0.55	U	1.0	0.55	ug/L		10/31/23 11:35	1	CJM
Carbon disulfide	0.82	U J	1.0	0.82	ug/L		10/31/23 11:35	1	CJM
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L		10/31/23 11:35	1	CJM
Chlorobenzene	0.38	U	1.0	0.38	ug/L		10/31/23 11:35	1	CJM
Chlorobromomethane	0.41	U	1.0	0.41	ug/L		10/31/23 11:35	1	CJM
Chlorodibromomethane	0.79	J	1.0	0.28	ug/L		10/31/23 11:35	1	CJM
Chloroethane	0.32	U	1.0	0.32	ug/L		10/31/23 11:35	1	CJM
Chloroform	0.33	U	1.0	0.33	ug/L		10/31/23 11:35	1	CJM
Chloromethane	0.40	U J	1.0	0.40	ug/L		10/31/23 11:35	1	CJM
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L		10/31/23 11:35	1	CJM
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/31/23 11:35	1	CJM
Cyclohexane	0.32	U	1.0	0.32	ug/L		10/31/23 11:35	1	CJM
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L		10/31/23 11:35	1	CJM
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L		10/31/23 11:35	1	CJM
Ethylbenzene	0.30	U	1.0	0.30	ug/L		10/31/23 11:35	1	CJM
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L		10/31/23 11:35	1	CJM
Isopropylbenzene	0.34	U	1.0	0.34	ug/L		10/31/23 11:35	1	CJM
Methyl acetate	0.79	U	5.0	0.79	ug/L		10/31/23 11:35	1	CJM
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L		10/31/23 11:35	1	CJM
Methylcyclohexane	0.71	U	1.0	0.71	ug/L		10/31/23 11:35	1	CJM
Methylene Chloride	0.32	U	1.0	0.32	ug/L		10/31/23 11:35	1	CJM
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L		10/31/23 11:35	1	CJM

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-291365-19

Date Collected: 10/27/23 00:00

Matrix: Water

Date Received: 10/27/23 17:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
o-Xylene	0.36	U	1.0	0.36	ug/L		10/31/23 11:35	1	CJM
Styrene	0.42	U	1.0	0.42	ug/L		10/31/23 11:35	1	CJM
Tetrachloroethene	0.25	U	1.0	0.25	ug/L		10/31/23 11:35	1	CJM
Toluene	0.38	U	1.0	0.38	ug/L		10/31/23 11:35	1	CJM
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L		10/31/23 11:35	1	CJM
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L		10/31/23 11:35	1	CJM
Trichloroethene	0.31	U	1.0	0.31	ug/L		10/31/23 11:35	1	CJM
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L		10/31/23 11:35	1	CJM
Vinyl chloride	0.17	U	1.0	0.17	ug/L		10/31/23 11:35	1	CJM

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	109		70 - 128	10/31/23 11:35	1	CJM
4-Bromofluorobenzene	108		76 - 120	10/31/23 11:35	1	CJM
Dibromofluoromethane (Surr)	120		77 - 132	10/31/23 11:35	1	CJM
Toluene-d8 (Surr)	97		80 - 120	10/31/23 11:35	1	CJM

Client Sample ID: SS-5 (0.0-2.0)

Lab Sample ID: 460-291365-20

Date Collected: 10/27/23 09:29

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 16:14	1	AAT
1,1,2,2-Tetrachloroethane	0.00019	U	0.00087	0.00019	mg/Kg	✱	11/04/23 16:14	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00087	0.00026	mg/Kg	✱	11/04/23 16:14	1	AAT
1,1,2-Trichloroethane	0.00016	U	0.00087	0.00016	mg/Kg	✱	11/04/23 16:14	1	AAT
1,1-Dichloroethane	0.00018	U	0.00087	0.00018	mg/Kg	✱	11/04/23 16:14	1	AAT
1,1-Dichloroethene	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2,3-Trichlorobenzene	0.00016	U	0.00087	0.00016	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2,4-Trichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2-Dibromo-3-Chloropropane	0.00040	U	0.00087	0.00040	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2-Dichlorobenzene	0.00031	U	0.00087	0.00031	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2-Dichloroethane	0.00026	U	0.00087	0.00026	mg/Kg	✱	11/04/23 16:14	1	AAT
1,2-Dichloropropane	0.00037	U	0.00087	0.00037	mg/Kg	✱	11/04/23 16:14	1	AAT
1,3-Dichlorobenzene	0.00032	U	0.00087	0.00032	mg/Kg	✱	11/04/23 16:14	1	AAT
1,4-Dichlorobenzene	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 16:14	1	AAT
1,4-Dioxane	0.0080	U	0.087	0.0080	mg/Kg	✱	11/04/23 16:14	1	AAT
2-Butanone (MEK)	0.0028	J	0.0044	0.00032	mg/Kg	✱	11/04/23 16:14	1	AAT
2-Hexanone	0.0015	U	0.0044	0.0015	mg/Kg	✱	11/04/23 16:14	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0044	0.0014	mg/Kg	✱	11/04/23 16:14	1	AAT
Acetone	0.017		0.0052	0.0050	mg/Kg	✱	11/04/23 16:14	1	AAT
Benzene	0.00023	U	0.00087	0.00023	mg/Kg	✱	11/04/23 16:14	1	AAT
Bromoform	0.00037	U	0.00087	0.00037	mg/Kg	✱	11/04/23 16:14	1	AAT
Bromomethane	0.00087	U	0.0017	0.00087	mg/Kg	✱	11/04/23 16:14	1	AAT
Carbon disulfide	0.00023	U	0.00087	0.00023	mg/Kg	✱	11/04/23 16:14	1	AAT
Carbon tetrachloride	0.00034	U	0.00087	0.00034	mg/Kg	✱	11/04/23 16:14	1	AAT
Chlorobenzene	0.00015	U	0.00087	0.00015	mg/Kg	✱	11/04/23 16:14	1	AAT
Chlorobromomethane	0.00025	U	0.00087	0.00025	mg/Kg	✱	11/04/23 16:14	1	AAT
Chlorodibromomethane	0.00017	U	0.00087	0.00017	mg/Kg	✱	11/04/23 16:14	1	AAT
Chloroethane	0.00046	U	0.00087	0.00046	mg/Kg	✱	11/04/23 16:14	1	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (0.0-2.0)

Lab Sample ID: 460-291365-20

Date Collected: 10/27/23 09:29

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chloroform	0.00085	U	0.00087	0.00085	mg/Kg	✱	11/04/23 16:14	1	AAT
Chloromethane	0.00038	U	0.00087	0.00038	mg/Kg	✱	11/04/23 16:14	1	AAT
cis-1,2-Dichloroethene	0.00031	U	0.00087	0.00031	mg/Kg	✱	11/04/23 16:14	1	AAT
cis-1,3-Dichloropropene	0.00024	U	0.00087	0.00024	mg/Kg	✱	11/04/23 16:14	1	AAT
Cyclohexane	0.00019	U	0.00087	0.00019	mg/Kg	✱	11/04/23 16:14	1	AAT
Dichlorobromomethane	0.00022	U	0.00087	0.00022	mg/Kg	✱	11/04/23 16:14	1	AAT
Dichlorodifluoromethane	0.00029	U	0.00087	0.00029	mg/Kg	✱	11/04/23 16:14	1	AAT
Ethylbenzene	0.00017	U	0.00087	0.00017	mg/Kg	✱	11/04/23 16:14	1	AAT
Ethylene Dibromide	0.00016	U	0.00087	0.00016	mg/Kg	✱	11/04/23 16:14	1	AAT
Isopropylbenzene	0.00025	U	0.00087	0.00025	mg/Kg	✱	11/04/23 16:14	1	AAT
Methyl acetate	0.0038	U ~~U~~ *1 JJ	0.0044	0.0038	mg/Kg	✱	11/04/23 16:14	1	AAT
Methyl tert-butyl ether	0.00045	U	0.00087	0.00045	mg/Kg	✱	11/04/23 16:14	1	AAT
Methylcyclohexane	0.00044	U	0.00087	0.00044	mg/Kg	✱	11/04/23 16:14	1	AAT
Methylene Chloride	0.0010	U	0.0017	0.0010	mg/Kg	✱	11/04/23 16:14	1	AAT
m-Xylene & p-Xylene	0.00015	U	0.00087	0.00015	mg/Kg	✱	11/04/23 16:14	1	AAT
o-Xylene	0.00017	U	0.00087	0.00017	mg/Kg	✱	11/04/23 16:14	1	AAT
Styrene	0.00024	U	0.00087	0.00024	mg/Kg	✱	11/04/23 16:14	1	AAT
Tetrachloroethene	0.00027	U	0.00087	0.00027	mg/Kg	✱	11/04/23 16:14	1	AAT
Toluene	0.00020	U	0.00087	0.00020	mg/Kg	✱	11/04/23 16:14	1	AAT
trans-1,2-Dichloroethene	0.00021	U	0.00087	0.00021	mg/Kg	✱	11/04/23 16:14	1	AAT
trans-1,3-Dichloropropene	0.00023	U	0.00087	0.00023	mg/Kg	✱	11/04/23 16:14	1	AAT
Trichloroethene	0.00028	U	0.00087	0.00028	mg/Kg	✱	11/04/23 16:14	1	AAT
Trichlorofluoromethane	0.00035	U	0.00087	0.00035	mg/Kg	✱	11/04/23 16:14	1	AAT
Vinyl chloride	0.00048	U	0.00087	0.00048	mg/Kg	✱	11/04/23 16:14	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Tentatively Identified Compound	None		mg/Kg	✱		N/A	11/04/23 16:14	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	102		72 - 138	11/04/23 16:14	1	AAT
4-Bromofluorobenzene	103		63 - 139	11/04/23 16:14	1	AAT
Dibromofluoromethane (Surr)	108		54 - 150	11/04/23 16:14	1	AAT
Toluene-d8 (Surr)	99		71 - 126	11/04/23 16:14	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 18:09	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,2'-oxybis[1-chloropropane]	0.020	U J	0.34	0.020	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	✱	11/01/23 18:09	1	MDJ
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	✱	11/01/23 18:09	1	MDJ
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	✱	11/01/23 18:09	1	MDJ
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	✱	11/01/23 18:09	1	MDJ
2-Methylnaphthalene	0.0094	U	0.34	0.0094	mg/Kg	✱	11/01/23 18:09	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (0.0-2.0)

Lab Sample ID: 460-291365-20

Date Collected: 10/27/23 09:29

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.8

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☆	11/01/23 18:09	1	MDJ
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☆	11/01/23 18:09	1	MDJ
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☆	11/01/23 18:09	1	MDJ
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	☆	11/01/23 18:09	1	MDJ
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	☆	11/01/23 18:09	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☆	11/01/23 18:09	1	MDJ
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☆	11/01/23 18:09	1	MDJ
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	☆	11/01/23 18:09	1	MDJ
Acenaphthylene	0.053	J	0.34	0.0096	mg/Kg	☆	11/01/23 18:09	1	MDJ
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☆	11/01/23 18:09	1	MDJ
Anthracene	0.071	J	0.34	0.010	mg/Kg	☆	11/01/23 18:09	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzaldehyde	0.056	U J	0.34	0.056	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzo[a]anthracene	0.22		0.034	0.025	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzo[a]pyrene	0.26		0.034	0.0090	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzo[b]fluoranthene	0.34		0.034	0.0087	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzo[g,h,i]perylene	0.13	J	0.34	0.0099	mg/Kg	☆	11/01/23 18:09	1	MDJ
Benzo[k]fluoranthene	0.13		0.034	0.0066	mg/Kg	☆	11/01/23 18:09	1	MDJ
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	☆	11/01/23 18:09	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☆	11/01/23 18:09	1	MDJ
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☆	11/01/23 18:09	1	MDJ
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☆	11/01/23 18:09	1	MDJ
Caprolactam	0.052	U	0.34	0.052	mg/Kg	☆	11/01/23 18:09	1	MDJ
Carbazole	0.017	J	0.34	0.013	mg/Kg	☆	11/01/23 18:09	1	MDJ
Chrysene	0.23	J	0.34	0.014	mg/Kg	☆	11/01/23 18:09	1	MDJ
Dibenz(a,h)anthracene	0.042		0.034	0.015	mg/Kg	☆	11/01/23 18:09	1	MDJ
Dibenzofuran	0.012	J	0.34	0.011	mg/Kg	☆	11/01/23 18:09	1	MDJ
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☆	11/01/23 18:09	1	MDJ
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	☆	11/01/23 18:09	1	MDJ
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☆	11/01/23 18:09	1	MDJ
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☆	11/01/23 18:09	1	MDJ
Fluoranthene	0.40		0.34	0.012	mg/Kg	☆	11/01/23 18:09	1	MDJ
Fluorene	0.023	J	0.34	0.0099	mg/Kg	☆	11/01/23 18:09	1	MDJ
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☆	11/01/23 18:09	1	MDJ
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	☆	11/01/23 18:09	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.34	0.030	mg/Kg	☆	11/01/23 18:09	1	MDJ
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☆	11/01/23 18:09	1	MDJ
Indeno[1,2,3-cd]pyrene	0.14		0.034	0.013	mg/Kg	☆	11/01/23 18:09	1	MDJ
Isophorone	0.097	U	0.14	0.097	mg/Kg	☆	11/01/23 18:09	1	MDJ
Naphthalene	0.012	J	0.34	0.0058	mg/Kg	☆	11/01/23 18:09	1	MDJ
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☆	11/01/23 18:09	1	MDJ
N-Nitrosodi-n-propylamine	0.024	U	0.034	0.024	mg/Kg	☆	11/01/23 18:09	1	MDJ
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☆	11/01/23 18:09	1	MDJ

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-5 (0.0-2.0)

Lab Sample ID: 460-291365-20

Date Collected: 10/27/23 09:29

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 97.8

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Pentachlorophenol	0.069	U J	0.27	0.069	mg/Kg	☼	11/01/23 18:09	1	MDJ
Phenanthrene	0.27	J	0.34	0.014	mg/Kg	☼	11/01/23 18:09	1	MDJ
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	11/01/23 18:09	1	MDJ
Pyrene	0.44		0.34	0.0084	mg/Kg	☼	11/01/23 18:09	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
1-Docosene	0.49	J N	mg/Kg	☼	11.72	1599-67-3	11/01/23 18:09	1	MDJ
Tetracosane	0.93	J N	mg/Kg	☼	12.60	646-31-1	11/01/23 18:09	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	72		24 - 137	11/01/23 18:09	1	MDJ
2-Fluorobiphenyl	87		48 - 120	11/01/23 18:09	1	MDJ
2-Fluorophenol (Surr)	89		31 - 120	11/01/23 18:09	1	MDJ
Nitrobenzene-d5 (Surr)	93		38 - 120	11/01/23 18:09	1	MDJ
Phenol-d5 (Surr)	95		39 - 120	11/01/23 18:09	1	MDJ
Terphenyl-d14 (Surr)	102		25 - 126	11/01/23 18:09	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	9020		18.6	5.1	mg/Kg	☼	11/09/23 21:22	1	CDC
Antimony	0.14	J	0.93	0.14	mg/Kg	☼	11/09/23 21:22	1	CDC
Arsenic	1.9		0.93	0.096	mg/Kg	☼	11/09/23 21:22	1	CDC
Barium	87.2		1.9	0.13	mg/Kg	☼	11/09/23 21:22	1	CDC
Beryllium	0.43		0.37	0.053	mg/Kg	☼	11/09/23 21:22	1	CDC
Cadmium	0.27	J	0.93	0.11	mg/Kg	☼	11/09/23 21:22	1	CDC
Calcium	13700	J	92.9	37.8	mg/Kg	☼	11/09/23 21:22	1	CDC
Chromium	14.3	J	1.9	0.84	mg/Kg	☼	11/09/23 21:22	1	CDC
Cobalt	6.8	J	1.9	0.14	mg/Kg	☼	11/09/23 21:22	1	CDC
Copper	24.8	J	1.9	0.34	mg/Kg	☼	11/09/23 21:22	1	CDC
Iron	14800		55.8	18.8	mg/Kg	☼	11/09/23 21:22	1	CDC
Lead	28.6	J	0.56	0.19	mg/Kg	☼	11/09/23 21:22	1	CDC
Magnesium	10700	J	92.9	9.5	mg/Kg	☼	11/09/23 21:22	1	CDC
Manganese	253		3.7	0.37	mg/Kg	☼	11/09/23 21:22	1	CDC
Nickel	12.3	J	1.9	0.44	mg/Kg	☼	11/09/23 21:22	1	CDC
Potassium	2910		92.9	15.1	mg/Kg	☼	11/09/23 21:22	1	CDC
Selenium	0.16	J	1.2	0.12	mg/Kg	☼	11/09/23 21:22	1	CDC
Silver	0.083	U	0.37	0.083	mg/Kg	☼	11/09/23 21:22	1	CDC
Sodium	157		92.9	42.5	mg/Kg	☼	11/09/23 21:22	1	CDC
Thallium	0.15	J	0.37	0.038	mg/Kg	☼	11/09/23 21:22	1	CDC
Vanadium	29.1	J	1.9	0.19	mg/Kg	☼	11/09/23 21:22	1	CDC
Zinc	58.5		7.4	2.8	mg/Kg	☼	11/09/23 21:22	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.045	J	0.017	0.0078	mg/Kg	☼	11/10/23 06:30	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.11	U	0.20	0.11	mg/Kg	☼	11/08/23 23:43	1	VBG

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (0.0-2.0)

Lab Sample ID: 460-291365-21

Date Collected: 10/27/23 08:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	✱	11/04/23 16:37	1	AAT
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	✱	11/04/23 16:37	1	AAT
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	✱	11/04/23 16:37	1	AAT
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 16:37	1	AAT
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	✱	11/04/23 16:37	1	AAT
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2,4-Trichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2-Dibromo-3-Chloropropane	0.00052	U	0.0011	0.00052	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	✱	11/04/23 16:37	1	AAT
1,2-Dichloropropane	0.00048	U	0.0011	0.00048	mg/Kg	✱	11/04/23 16:37	1	AAT
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	✱	11/04/23 16:37	1	AAT
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 16:37	1	AAT
1,4-Dioxane	0.010	U J	0.11	0.010	mg/Kg	✱	11/04/23 16:37	1	AAT
2-Butanone (MEK)	0.0035	J	0.0057	0.00042	mg/Kg	✱	11/04/23 16:37	1	AAT
2-Hexanone	0.0019	U	0.0057	0.0019	mg/Kg	✱	11/04/23 16:37	1	AAT
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0057	0.0018	mg/Kg	✱	11/04/23 16:37	1	AAT
Acetone	0.020		0.0068	0.0065	mg/Kg	✱	11/04/23 16:37	1	AAT
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	✱	11/04/23 16:37	1	AAT
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	✱	11/04/23 16:37	1	AAT
Bromomethane	0.0011	U	0.0023	0.0011	mg/Kg	✱	11/04/23 16:37	1	AAT
Carbon disulfide	0.00030	U J	0.0011	0.00030	mg/Kg	✱	11/04/23 16:37	1	AAT
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	✱	11/04/23 16:37	1	AAT
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 16:37	1	AAT
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/04/23 16:37	1	AAT
Chlorodibromomethane	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 16:37	1	AAT
Chloroethane	0.00059	U	0.0011	0.00059	mg/Kg	✱	11/04/23 16:37	1	AAT
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	✱	11/04/23 16:37	1	AAT
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	✱	11/04/23 16:37	1	AAT
cis-1,2-Dichloroethene	0.00041	U	0.0011	0.00041	mg/Kg	✱	11/04/23 16:37	1	AAT
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 16:37	1	AAT
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	✱	11/04/23 16:37	1	AAT
Dichlorobromomethane	0.00029	U	0.0011	0.00029	mg/Kg	✱	11/04/23 16:37	1	AAT
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	✱	11/04/23 16:37	1	AAT
Ethylbenzene	0.00023	U	0.0011	0.00023	mg/Kg	✱	11/04/23 16:37	1	AAT
Ethylene Dibromide	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 16:37	1	AAT
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	✱	11/04/23 16:37	1	AAT
Methyl acetate	0.0049	U ~~+~~ ~~+~~ ~~+~~ ~~+~~ UJ	0.0057	0.0049	mg/Kg	✱	11/04/23 16:37	1	AAT
Methyl tert-butyl ether	0.00058	U	0.0011	0.00058	mg/Kg	✱	11/04/23 16:37	1	AAT
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	✱	11/04/23 16:37	1	AAT
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	✱	11/04/23 16:37	1	AAT
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	✱	11/04/23 16:37	1	AAT
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	✱	11/04/23 16:37	1	AAT
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	✱	11/04/23 16:37	1	AAT
Tetrachloroethene	0.00035	U	0.0011	0.00035	mg/Kg	✱	11/04/23 16:37	1	AAT
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	✱	11/04/23 16:37	1	AAT
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	✱	11/04/23 16:37	1	AAT
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	✱	11/04/23 16:37	1	AAT

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (0.0-2.0)

Lab Sample ID: 460-291365-21

Date Collected: 10/27/23 08:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	11/04/23 16:37	1	AAT
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	11/04/23 16:37	1	AAT
Vinyl chloride	0.00062	U	0.0011	0.00062	mg/Kg	☼	11/04/23 16:37	1	AAT

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
Dimethyl sulfide	0.042	J N	mg/Kg	☼	2.14	75-18-3	11/04/23 16:37	1	AAT

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	101		72 - 138	11/04/23 16:37	1	AAT
4-Bromofluorobenzene	96		63 - 139	11/04/23 16:37	1	AAT
Dibromofluoromethane (Surr)	112		54 - 150	11/04/23 16:37	1	AAT
Toluene-d8 (Surr)	98		71 - 126	11/04/23 16:37	1	AAT

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,2'-oxybis[1-chloropropane]	0.021	U J	0.35	0.021	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	11/01/23 17:46	1	MDJ
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Methylnaphthalene	0.015	J	0.35	0.0097	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Nitroaniline	0.026	U	0.35	0.026	mg/Kg	☼	11/01/23 17:46	1	MDJ
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	11/01/23 17:46	1	MDJ
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	11/01/23 17:46	1	MDJ
3-Nitroaniline	0.082	U	0.35	0.082	mg/Kg	☼	11/01/23 17:46	1	MDJ
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Chloro-3-methylphenol	0.019	U	0.35	0.019	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	11/01/23 17:46	1	MDJ
4-Nitrophenol	0.057	U	0.70	0.057	mg/Kg	☼	11/01/23 17:46	1	MDJ
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	11/01/23 17:46	1	MDJ
Acenaphthylene	0.18	J	0.35	0.0099	mg/Kg	☼	11/01/23 17:46	1	MDJ
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	11/01/23 17:46	1	MDJ
Anthracene	0.11	J	0.35	0.011	mg/Kg	☼	11/01/23 17:46	1	MDJ
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	11/01/23 17:46	1	MDJ
Benzaldehyde	0.057	U J	0.35	0.057	mg/Kg	☼	11/01/23 17:46	1	MDJ
Benzo[a]anthracene	0.55		0.035	0.026	mg/Kg	☼	11/01/23 17:46	1	MDJ
Benzo[a]pyrene	0.66		0.035	0.0093	mg/Kg	☼	11/01/23 17:46	1	MDJ

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (0.0-2.0)

Lab Sample ID: 460-291365-21

Date Collected: 10/27/23 08:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.0

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzo[b]fluoranthene	0.88		0.035	0.0090	mg/Kg	☼	11/01/23 17:46	1	MDJ
Benzo[g,h,i]perylene	0.27	J	0.35	0.010	mg/Kg	☼	11/01/23 17:46	1	MDJ
Benzo[k]fluoranthene	0.36		0.035	0.0068	mg/Kg	☼	11/01/23 17:46	1	MDJ
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	11/01/23 17:46	1	MDJ
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
Bis(2-ethylhexyl) phthalate	0.040	J	0.35	0.018	mg/Kg	☼	11/01/23 17:46	1	MDJ
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	11/01/23 17:46	1	MDJ
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	11/01/23 17:46	1	MDJ
Carbazole	0.028	J	0.35	0.013	mg/Kg	☼	11/01/23 17:46	1	MDJ
Chrysene	0.53		0.35	0.015	mg/Kg	☼	11/01/23 17:46	1	MDJ
Dibenz(a,h)anthracene	0.076		0.035	0.015	mg/Kg	☼	11/01/23 17:46	1	MDJ
Dibenzofuran	0.017	J	0.35	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	11/01/23 17:46	1	MDJ
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	11/01/23 17:46	1	MDJ
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	11/01/23 17:46	1	MDJ
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	11/01/23 17:46	1	MDJ
Fluoranthene	0.88		0.35	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
Fluorene	0.024	J	0.35	0.010	mg/Kg	☼	11/01/23 17:46	1	MDJ
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	11/01/23 17:46	1	MDJ
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	☼	11/01/23 17:46	1	MDJ
Hexachlorocyclopentadiene	R 0.030	U *	0.35	0.030	mg/Kg	☼	11/01/23 17:46	1	MDJ
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	11/01/23 17:46	1	MDJ
Indeno[1,2,3-cd]pyrene	0.35		0.035	0.014	mg/Kg	☼	11/01/23 17:46	1	MDJ
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	11/01/23 17:46	1	MDJ
Naphthalene	0.054	J	0.35	0.0060	mg/Kg	☼	11/01/23 17:46	1	MDJ
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	11/01/23 17:46	1	MDJ
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	11/01/23 17:46	1	MDJ
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	11/01/23 17:46	1	MDJ
Pentachlorophenol	0.071	U J	0.28	0.071	mg/Kg	☼	11/01/23 17:46	1	MDJ
Phenanthrene	0.32	J	0.35	0.014	mg/Kg	☼	11/01/23 17:46	1	MDJ
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	11/01/23 17:46	1	MDJ
Pyrene	1.0		0.35	0.0086	mg/Kg	☼	11/01/23 17:46	1	MDJ

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Analyzed	Dil Fac	Analyst
n-Hexadecanoic acid	0.29	J N	mg/Kg	☼	8.93	57-10-3	11/01/23 17:46	1	MDJ
1-Docosene	0.52	J N	mg/Kg	☼	11.72	1599-67-3	11/01/23 17:46	1	MDJ
Heptadecane, 9-octyl-	2.3	J N	mg/Kg	☼	12.60	7225-64-1	11/01/23 17:46	1	MDJ
Oxirane, hexadecyl-	0.93	J N	mg/Kg	☼	13.28	7390-81-0	11/01/23 17:46	1	MDJ

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
2,4,6-Tribromophenol (Surr)	74		24 - 137	11/01/23 17:46	1	MDJ
2-Fluorobiphenyl	88		48 - 120	11/01/23 17:46	1	MDJ
2-Fluorophenol (Surr)	87		31 - 120	11/01/23 17:46	1	MDJ
Nitrobenzene-d5 (Surr)	90		38 - 120	11/01/23 17:46	1	MDJ
Phenol-d5 (Surr)	97		39 - 120	11/01/23 17:46	1	MDJ
Terphenyl-d14 (Surr)	104		25 - 126	11/01/23 17:46	1	MDJ

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Aluminum	7650		18.8	5.2	mg/Kg	☼	11/09/23 21:24	1	CDC

Eurofins Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison Former Ossining Works

Job ID: 460-291365-1

Client Sample ID: SS-2 (0.0-2.0)

Lab Sample ID: 460-291365-21

Date Collected: 10/27/23 08:40

Matrix: Solid

Date Received: 10/27/23 17:17

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	0.68	J	0.94	0.14	mg/Kg	✱	11/09/23 21:24	1	CDC
Arsenic	2.8		0.94	0.097	mg/Kg	✱	11/09/23 21:24	1	CDC
Barium	75.9		1.9	0.14	mg/Kg	✱	11/09/23 21:24	1	CDC
Beryllium	0.30	J	0.38	0.054	mg/Kg	✱	11/09/23 21:24	1	CDC
Cadmium	0.53	J	0.94	0.11	mg/Kg	✱	11/09/23 21:24	1	CDC
Calcium	9820	J	94.0	38.2	mg/Kg	✱	11/09/23 21:24	1	CDC
Chromium	16.7	J	1.9	0.85	mg/Kg	✱	11/09/23 21:24	1	CDC
Cobalt	6.6	J	1.9	0.14	mg/Kg	✱	11/09/23 21:24	1	CDC
Copper	43.9	J	1.9	0.35	mg/Kg	✱	11/09/23 21:24	1	CDC
Iron	26200		56.4	19.0	mg/Kg	✱	11/09/23 21:24	1	CDC
Lead	75.5	J	0.56	0.19	mg/Kg	✱	11/09/23 21:24	1	CDC
Magnesium	7570	J	94.0	9.6	mg/Kg	✱	11/09/23 21:24	1	CDC
Manganese	310		3.8	0.38	mg/Kg	✱	11/09/23 21:24	1	CDC
Nickel	13.8	J	1.9	0.44	mg/Kg	✱	11/09/23 21:24	1	CDC
Potassium	2620		94.0	15.2	mg/Kg	✱	11/09/23 21:24	1	CDC
Selenium	0.22	J	1.2	0.12	mg/Kg	✱	11/09/23 21:24	1	CDC
Silver	0.48		0.38	0.084	mg/Kg	✱	11/09/23 21:24	1	CDC
Sodium	114		94.0	42.9	mg/Kg	✱	11/09/23 21:24	1	CDC
Thallium	0.15	J	0.38	0.039	mg/Kg	✱	11/09/23 21:24	1	CDC
Vanadium	25.0	J	1.9	0.19	mg/Kg	✱	11/09/23 21:24	1	CDC
Zinc	107		7.5	2.9	mg/Kg	✱	11/09/23 21:24	1	CDC

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.25	J	0.018	0.0084	mg/Kg	✱	11/10/23 06:32	1	TJS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cyanide, Total	0.80		0.23	0.13	mg/Kg	✱	11/08/23 23:44	1	VBG

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