Long Island Rail Road

Cedar Manor Substation

QUEENS, NEW YORK

Final Engineering Report

NYSDEC Site Number: 241221

Prepared for:

METROPOLITAN TRANSPORTATION AUTHORTIY

LONG ISLAND RAIL ROAD

Jamaica Station

Jamaica, New York 11435-4380

Prepared by:

AECOM

1255 Broad Street # 201

Clifton, New Jersey 07012

(973) 883-8500

SEPTEMBER 2024

CERTIFICATIONS

I, Claire Hunt, am currently a registered professional engineer licensed by the State of New York. I certify that the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) for the Long Island Rail Road (LIRR) Cedar Manor Substation (the Site) was implemented, and that all construction activities were completed in substantial conformance with the NYSDEC-approved RAWP. The work was witnessed by representatives of the LIRR.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the RAWP and in all applicable statutes and regulations have been or will be achieved.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in a Deed Restriction, which is appended to this Final Engineering Report. In addition, all affected local governments, as defined in ECL 71-3603, have been notified that such Deed Restriction has been recorded.

I certify that a Site Management Plan has been submitted in support of the Institutional Controls, and that such plan has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Claire Hunt, of AECOM, am certifying as Owner’s Designated Site Representative for the Site.

Claire Hunt 9/25/2024

NYS Professional Engineer # 094202 Date



TABLE OF CONTENTS

CERTIFICATIONS ..... **II**

TABLE OF CONTENTS ..... **III**

LIST OF ACRONYMS ..... **VI**

FINAL ENGINEERING REPORT **1**

1.0 BACKGROUND AND SITE DESCRIPTION **1**

2.0 SUMMARY OF SITE REMEDY **1**
2.1 Remedial Action Objectives **1**
2.1.1 Soil RAOs 1
2.2 Description of Selected Remedy **2**

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS **4**
3.1 Operable Units **4**
3.2 Remedial Contracts **4**

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED **5**
4.1 Governing Documents **5**
4.1.1 Site Specific Health & Safety Plan (HASP) 5
4.1.2 Quality Assurance Project Plan (QAPP) 5
4.1.3 Construction Quality Assurance Plan (CQAP) 5
4.1.4 Soil/Materials Management Plan (S/MMP) 5
4.1.5 Storm-Water Pollution Prevention Plan (SWPPP) 6
4.1.6 Community Air Monitoring Plan (CAMP) 6
4.1.7 Contractors Site Operations Plans (SOPs) 8
4.1.8 Community Participation Plan 8
4.2 Remedial Program Elements **8**
4.2.1 Contractors and Consultants 8
4.2.2 Site Preparation 9
4.2.3 General Site Controls 10
4.2.4 Nuisance Controls 10
4.2.5 CAMP Results 11
4.2.6 Reporting 11
4.3 Contaminated Materials Removal **12**

4.3.1 Mercury Soil Removal....12
4.3.2 Disposal Details....17
4.3.3 On-Site Soil Reuse....18
4.4 Remedial Performance/Documentation Sampling....18
4.5 Imported Backfill....19
4.6 Contamination Remaining at the Site....19
4.7 Institutional Controls....20
4.8 Deviations from the Remedial Action Work Plan....20

LIST OF TABLES

Table 1 – Soil Cleanup Objectives (SCOs)

Table 2 – Endpoint Sampling Results

Table 2A – Dry Well End Point Sampling Results

Table 3 – Offsite Soil/Waste Disposal Tonnage and Facilities

Table 4 – Waste Characterization Sample Results

Table 4A – Waste Characterization Sample Results - Toxicity Characteristic Leaching Procedure (TCLP) and RCRA Characteristics

Table 5 – Backfill Sources and Quantities

Table 6 – Analytical Results and Associated Limits for Imported Material

Table 7 – Soils Exceeding Unrestricted SCOs After the Remedial Action

LIST OF FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Plan with Remediation Areas and Sample Locations

Figure 3 – Site Plan with Cut and Fill Contours

Figure 4 – Site Plan with Endpoint Sample Locations and Analytical Results

Figure 5 – Soil Results Remaining Exceeding Unrestricted SCOs

Figure 6 – Soil Results Remaining Compliant with Unrestricted SCOs

LIST OF APPENDICES

Appendix A – As-built Survey

Appendix B – Digital Copy of the FER (CD)

Appendix C – Daily Reports Including CAMP Data Sheets and Air Monitoring Data

Appendix D – Imported Materials Documentation

Appendix E – Waste Documentation

- Waste Hauler Permit Certificates
- Disposal Facility Approval Letter
- Facility Permit Certificates
- Tabulated Load Summaries
- Waste Manifests

Appendix F – Raw Analytical Laboratory Data

Appendix G – Deed Restriction

LIST OF ACRONYMS

Acronym	Definition
AC	Alternating Current
BSG	Below Surface Grade
CAMP	Community Air Monitoring Program
CEC	Clean Earth of Carteret
CFR	Code of Federal Regulation
CQ/QCAP	Construction Quality/Quality Control Assurance Plan
EC	Engineering Controls
EV	Electron Volt
FT	Foot or Feet
HASP	Health And Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IC	Institutional Controls
IRM	Interim Remedial Measure
LIRR	Long Island Rail Road
mcg/m3	Micrograms per cubic meter
mg/kg	Milligrams per Kilogram
MVA	Mercury Vapor Analyzer
NYCRR	New York Codes Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photo Ionization Detector
PM-10	Particulate Matter 10 microns
PPM	Parts per Million
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objectives
RAWP	Remedial Action Work Plan
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria, and Guidelines
SEQRA	State Environmental Quality Review Act
S/MMP	Soil/Materials Management Plan
SOP	Site Operations Plans
SVIG	Soil Vapor Intrusion Guidance
SWPPP	Storm Water Pollution Prevention Program

Acronym	Definition
TAGM	Technical and Administrative Guidance Memorandum
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
yd3	Cubic Yards

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

The Long Island Railroad (LIRR) entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) in November 2004, and subsequently an Order on Consent in July 2018, to investigate and remediate an approximately 0.25-acre property located in Cedar Manor, Queens, New York. The property was remediated to industrial use, and will be used as an electrical substation.

The Site is located at the foot of 158th Street in the County of Queens, New York and is identified as a portion of the LIRR. The Site is situated on an approximately 0.25-acre area bounded by Brinkerhoff Avenue to the north, 158th Street to the south, railroad tracks to the east, and a residential property to the west (see Figure 1). A survey of the Site is shown in Appendix A.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of the Site assessments, the following Remedial Action Objectives (RAOs) were identified for this Site.

2.1.1 Soil RAOs

RAOs are for the protection of human health and the environment. Remedial goals are established based on standards, criteria, and guidelines (SCGs) to protect human health and the environment. SCGs for the Site listed in the RAWP include New York Codes, Rules and Regulations Title 6 (6 NYCRR) Part 375 Environmental Remediation Programs Soil Cleanup Objectives (SCOs) for Industrial Use and for Residential Use, which have been used to define areas requiring remediation at the Cedar Manor Substation. Industrial use SCOs will be used for the majority of the substation with the exception of a small portion of the southwestern substation property that is not located

within the substation fencing (Figure 2). Since this area poses a potential exposure risk to off-site receptors, the Residential SCO will be used for the area southwest of the substation fence. However, note that this area is covered by approximately 6 inches of crushed stone. Protection of Groundwater SCOs will be applied to the soil sample from the dry well located in Area 7. The purpose of these RAOs will be to protect human health and the environment as follows:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

2.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the RAWP dated June 23, 2011.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation of soil exceeding the Residential SCO for the small area outside the existing fence, Industrial SCOs for the areas inside the existing fence and Protection of Groundwater SCOs for the drywell in Area 7. The SCOs are listed in Table 1.
2. Execution and recording of a Deed Restriction to restrict land use and prevent future exposure to any contamination remaining at the Site.

3. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Deed Restriction, which includes plans for: (1) Institutional Controls, and (2) reporting.

4. Periodic certification of the institutional controls listed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this Site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed. The information and certifications made in the June 23, 2011 Remedial Action Work Plan were relied upon to prepare this report and certify that the remediation requirements for the Site have been met.

3.1 Operable Units

An Operable Unit (OU) is a portion of a Site that can be addressed by a distinct investigative and remedial approach. The Cedar Manor Substation has a single OU identified as OU-1: Mercury impacted soil. OU-1 consists of nine areas as follows:

- Area 1 – Mercury impacted soil to a depth of 1.0 feet (ft.) bgs (below ground surface).
- Area 2 – Mercury impacted soil to a depth of 2.0 ft. bgs.
- Area 3 – Mercury impacted soil to a depth of 4.0 ft. bgs.
- Area 4 – Mercury impacted soil to a depth of 6.0 ft. bgs.
- Area 5 – Mercury impacted soil to a depth of 10.0 ft bgs.
- Area 6 – Mercury impacted soil to a depth 10.0 ft. bgs around drywell.
- Area 7 – Dry well approximately 6 feet south of the building to be excavated to a depth of 14.0 ft. bgs.
- Area 8 – Water meter pit adjacent to the southwest corner of the substation building to be excavated to a depth of 6.0 ft. bgs.
- Area 9 – Drywell in 158th Street with mercury impacted sediment.

These locations are depicted on Figure 2.

3.2 Remedial Contracts

AARCO was retained to complete the remedial action as described in the RAWP.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved RAWP for the LIRR Cedar Manor Substation Site (June 2011). All deviations from the RAWP are noted below.

4.1 Governing Documents

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

4.1.2 Quality Assurance Project Plan (QAPP)

Section 4.0 of the RAWP approved by the NYSDEC specifies the requirements of the Construction Quality Assurance/Quality Control Plan (CQA/QCP). The CQA/QCP describes the specific policies, objectives, organization, functional activities, and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality Assurance Plan (CQ/QCAP)

The Construction Quality/Quality Control Assurance Plan(s) (CQ/QCAPs) managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQ/QCAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications.

4.1.4 Soil/Materials Management Plan (S/MMP)

To limit migration of impacted soil during the remediation, AARCO used a vacuum truck and hand tools to excavate soil from the impacted areas. To prevent migration of impacted soil at the Site, soil excavated from each area was placed on a properly prepared stockpile. The stockpile was constructed of polyethylene sheeting

surrounded by a silt fence. At the end of each working day the stockpile was covered with plastic sheeting. Periodically the soil was loaded onto trucks for transport to a disposal facility. Prior to loading soil, plastic sheeting was spread at the loading area to collect any loose soil generated during the loading process. After loading, soil on the plastic sheeting was returned to the stockpile area.

4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the site-specific Storm Water Pollution Prevention Plan included in the contractor's September 2019 Site Specific Work Plan.

4.1.6 Community Air Monitoring Plan (CAMP)

Community air monitoring consisted of setting up a minimum of three monitoring locations including an upwind location, a downwind location, and a location within the work zone. In addition to the planned locations, Preferred Environmental Services setup three perimeter locations and collected breathing zone samples from two high-risk workers.

Air monitoring was conducted for Volatile Organic Compounds (VOCs), mercury vapors, and dust particles. Instruments included a photoionization detector (PID) with a 10. 6 electron volt (EV) bulb, a Jerome Mercury Vapor Meter, and a dust monitor. The monitoring equipment was capable of calculating 15-minute average concentrations. Monitoring equipment was set up at the beginning of each workday and ran continuously until work ceased. Data from each instrument was logged continuously. CAMP results are provided in Appendix C.

Data was compared to action levels for each parameter as follows:

- VOC Monitoring - Downwind VOC limits were 5 parts per million (ppm) for a 15-minute average. If VOC concentrations ranged from 5 ppm to 25 ppm, work must be halted until VOC emission sources could be identified and corrective action taken. Work may resume provided that VOCs 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor, whichever is less (but no less than 20 feet) is below 5

ppm for a 15-minute average. Work activities must cease if VOCs at the perimeter of the work area exceed 25 ppm.

- Mercury Monitoring – Mercury vapors must be monitored at the downwind perimeter of the work area on a continuous basis during construction. If total mercury vapor levels exceed 0.01 mg/m^3 above background, work activities must be halted and techniques must be employed to reduce the downwind mercury vapor level. If any mercury vapors are identified 200 feet downwind from the work area or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted. If efforts to abate the emission source are unsuccessful and mercury vapor is detected for more than 30 minutes within 20 feet of the perimeter of the nearest residential or commercial structure, then all emergency response contacts will be notified, the local police authorities shall immediately be contacted by the safety manager and advised of the situation, and frequent air monitoring shall be conducted at 30 minute intervals within the 20 foot zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the safety manager.

- Particulate Monitoring – Particulate monitoring equipment must be capable of measuring particulates less than 10 micrometers in diameter (PM-10) and integrating readings over a 15-minute period. Equipment must have an audible alarm that sounds if the action level is exceeded. The action level for PM-10 is 100 micrograms per cubic meter (mcg/m^3) greater than background. Dust suppression techniques must be employed. Work can continue during suppression provided downwind readings are below 150 mcg/m^3 above the upwind readings and no visible dust is migrating from the work area. If downwind readings are 150 mcg/m^3 above the upwind readings work must cease until dust suppression measures and other controls reduce PM-10 concentrations to 150 mcg/m^3 or below.

4.1.7 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e., those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RAWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.8 Community Participation Plan

The Citizen Participation Plan (CPP) provides details on the citizen participation activities that will occur at several milestones during the remediation. A fact sheet was published online by NYSDEC in September 2020, prior to the start of the remedial action in compliance with the final May 2020 CPP for the Site. A fact sheet will be distributed once NYSDEC certifies the cleanup requirements are achieved and if NYSDEC reclassifies or delists the Site from the Registry of Contaminated Sites. The project contacts, locations of reports and information, and Site contacts are provided in the CPP.

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

The following consultants and contractors participated in the Remedial Action at the Cedar Manor Substation.

- AARCO conducted all remediation activities.
- Sky Testing Inc. (STI) and Soil Mechanics conducted geotechnical compaction testing.
- X-Ray Utility Locating (X-Ray) provided utility location and geophysical services.
- Paul J. Petretti provided surveying and location services.
- Preferred Environmental Services (Preferred) provided site health and safety oversight, perimeter air monitoring, and post-excavation soil sampling.
- LIRR Department of Program Management Resident Engineer provided daily remediation oversight.
- Claire Hunt, PE, is the certifying Engineer of Record responsible for inspection of the work.

4.2.2 Site Preparation

Prior to mobilization AARCO obtained all necessary permits and approvals and contacted New York 811 to request a utility mark-out at the substation. The following substantive technical requirements and regulations were followed as minimum performance specifications for this Remedial Action:

- 6 NYCRR Part 364 – Waste Transporter Permits
- 6 NYCRR Part 370 – Hazardous Waste Management Systems
- 6 NYCRR Part 375 – Environmental Remediation Programs
    - Part 375 Industrial SCOs
    - Part 375 Residential SCOs
    - Part 375 Protection of Groundwater SCOs
- NYSDEC CP-51 – Soil Cleanup Guidance
- 6 NYCRR Part 376 Land Disposal Restrictions
- 29 Code of Federal Regulations (CFR) Part 1910.120 – Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard
- 29 CFR Part 1926 – Safety and Health Regulations for Consideration
- Technical and Administrative Guidance Memorandum (TAGM) 4031 – Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites
- NYSDOH Generic CAMP

As per Section 1266, paragraph 11 of the Public Authorities Law, the LIRR is exempt from the requirements of the State Environmental Quality Review Act (SEQRA).

Documentation of agency approval required by the RAWP is included in Appendix D for imported fill.

AARCO mobilized to the Site on December 14, 2020. AARCO staged equipment onsite, setup the stockpile area along the southwestern side of the substation building and removed ballast from the stockpile area for later reuse onsite. X-Ray Utility Locating (X-Ray) marked out all onsite utilities and excavation areas. A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action.

4.2.3 General Site Controls

With the exception of a small area on the southwestern side of the substation, the Site is secured by a chain link fence to the north and west, a vinyl fence covering most of the yard's southern side, and an earthen track berm to the east. The small area on the southwestern side of the substation that is not protected by fencing is covered by a 6-inch thick layer of crushed stone, limiting potential direct contact and the generation of airborne dust. The Site may only be accessed in the presence of authorized LIRR personnel.

Records maintained on Site include daily reports, toolbox safety meeting sign-in sheets, and a copy of the Site HASP.

A Jerome Mercury Vapor Monitor was used to collect soil screening data for mercury and a MiniRAE 3000 photo ionization detector (PID) was used to collect soil screening data for Volatile Organic Compounds (VOCs).

Erosion and sediment controls consist of polyethylene sheeting beneath the stockpile, a silt fence built around the perimeter of the soil stockpile, and polyethylene sheeting covering the soil stockpile. Plastic sheeting was also placed beneath the area where trucks were loaded with soil.

Excavated material was temporarily stockpiled on-site in areas approved by LIRR. Stockpiled soil was placed on polyethylene sheeting with a minimum thickness of 25 mm (10 mils). Stockpiles were constructed to isolate stored contaminated material from the environment. The maximum stockpile height was 10 feet. Diversion measures were employed, to prevent storm water run-on and run-off. Stockpiles were covered at all times except when being worked.

All vehicles and equipment used was decontaminated to the satisfaction of the LIRR prior to leaving the Site.

4.2.4 Nuisance Controls

The following controls were used at the Site. Trucks were loaded on a sheet of 6-mil thick polyethylene sheeting to prevent potential migration of impacted soil during loading. Trucks did not enter the remediation area; therefore, no truck wash was used prior to Site egress. As per the RAWP, based on dust monitoring using a digital dust monitor, implementation of dust controls was not necessary. Based on the results of a mercury vapor soil screening conducted during the Delineation Phase II Site Assessment, "mercury vapor is not a concern at this site." Additionally, the contaminants of concern at the Site (i.e., mercury) do not emit odors; therefore, odor control procedures were not

established. There was no record of complaints during the project. If complaints had been received, they would have been made directly to the LIRR and referred to the AECOM project manager.

4.2.5 CAMP Results

CAMP monitoring reported no exceedances for December 15, 16, 28, 29 and 30, 2020; January 4, 5, 6, 7, 8, 11, 12, 13, 14, 19, 27, 28, and 29, 2021; March 2, 3, 4, 5, 8, 9, 11, 12, 15, 16, 17, 19, 30, and 31, 2021; April 1, 5, 6, 7, and 8, 2021. Air monitoring was not conducted on December 14 or 31, 2020; January 15, 2021 and March 18, 2021 due to rain. Air monitoring was not conducted on April 9, 12, 13, or 14, 2021 because no intrusive work was performed. No Site work was conducted on days that are not listed above.

On January 4, 2021, the dust monitor for the downwind station was replaced with the upwind dust monitor due to a low battery. On March 2, 2021, the work zone PID was not logging properly for approximately 30 minutes. On March 4, 2021, the downwind dust monitor stopped logging and was replaced with the upwind dust monitor until the next day when the vendor delivered a replacement. On March 16, 2021, the downwind dust monitor had a temporary recording issue. On March 31, 2021, the work zone PID had a connectivity issue which was restored at approximately 13:10. Copies of all field data sheets relating to the CAMP are provided in electronic format with the daily reports in Appendix C.

4.2.6 Reporting

Preferred Environmental Services prepared and maintained daily records during the remedial activities at the Site. AARCO and Preferred Environmental Services conducted daily tailgate/toolbox meetings to review the scope of work, planned activities, and health and safety protocols. Each member of the field team signed a daily form acknowledging attendance of the meeting.

Preferred Environmental Services prepared daily status reports documenting site conditions, the weather, daily work activities, and air monitoring results. Specific topics addressed included the location of air monitoring stations, personnel air monitoring, stockpile construction and deconstruction, compaction testing results, and endpoint soil sampling locations.

All daily reports are included in electronic format in Appendix C.

The construction photos required by the RAWP are included in electronic format in Appendix C.

4.3 Contaminated Materials Removal

A list of SCOs for the contaminants of concern for this project is provided in Table 1. The SCOs for this Site include NYCRR Part 375 Residential Use SCO for mercury of 0.81 mg/kg, the Industrial SCO for mercury of 5.7 mg/kg, and the Protection of Groundwater SCO for mercury of 0.73 mg/kg. Residential SCOs apply to the small portion of Area 7 that is outside of the fenced area. Industrial SCOs apply within the fenced area.

Remedial performance criteria were based on the removal of soil to depths specified in the RAWP as follows:

- Area 1 – 1.0 ft. bgs.
- Area 2 – 2.0 ft. bgs.
- Area 3 – 4.0 ft. bgs.
- Area 4 – 6.0 ft. bgs.
- Area 5 – 10.0 ft bgs.
- Area 6 –10.0 ft. bgs.
- Area 7 – 14.0 ft. bgs.
- Area 8 – 6.0 ft. bgs.
- Area 9 – to the base of the drywell.

AARCO removed 296.21 tons of mercury impacted soil from Areas 1 through 9 at the Cedar Manor Substation. A figure of the location of original sources and areas where excavations were performed is shown in Figure 2.

4.3.1 Mercury Soil Removal

From December 14, 2020, through April 14, 2021, AARCO removed 296.21 tons of mercury impacted soil from Areas 1 through 9. As stated above the soil removal locations are depicted in Figure 2. A map showing cut and fill contours is provided as Figure 3. A summary of the soil removal activities is provided below.

AARCO mobilized to the Site on December 14, 2021. The stockpile area was prepared by removing stone ballast for later reuse onsite; placing a sheet of 6-mil thick polyethylene sheeting at the stockpile area; and erecting a silt fence around the stockpile area. X-Ray marked out utility locations and excavation areas.

On December 15, 2020, AARCO utilized hand tools to expose underground utilities near the excavation areas. AARCO staged equipment on Site, secured the Site by erecting temporary fencing, and installed a lock on the substation building's rear door.

AARCO used a small track-mounted excavator to begin excavating Area 3 on December 16, 2020. The excavator placed soil in the loading bucket of a backhoe, which was used to transport the soil to the stockpile location. After Area 3 was excavated to a depth of 4.0 ft. bgs, Preferred collected endpoint sample CM-EP 12-13 4 ft. Work was stopped early due to weather conditions.

AARCO began backfilling Area 3 on December 28, 2020. Clean sand was placed in 8-inch lifts and compacted with a vibratory plate compactor to 95% compaction as verified by STI. A 6-inch layer of 3/4-inch stone was placed as top cover at Area 3.

AARCO began excavation of Area 4 on December 29, 2020 and completed excavation of the area on March 12, 2021. The area was excavated in phases to allow for the placement of shoring panels to prevent the sidewalls from collapsing into the excavation.

On December 30, 2020, Preferred collected endpoint sample CM-EP-10-06 B (6ft) from inside Area 4.

On December 31, 2020, X-Ray traced the path of a damaged cable within the Area 4 excavation. The cable ran to a utility pole currently holding fiber optic signaling cable; however, the cable stopped approximately 8 feet northeast of the excavation edge. X-Ray identified two hoses found within the excavation as sump hoses connected to a pump inside the utility vault inside Area 4.

AARCO continued excavating at Area 4 on January 4, 2021, and loaded two trucks with soil for transport to Clean Earth Carteret (CEC) for disposal from Area 1, Area 3, and Area 4. Preferred Environmental used a PID to field screen the soil for

VOCs and a Jerome Mercury Vapor Monitor to field screen the soil for mercury vapors. Instrument readings revealed no field screening results above background levels of 0.0 parts per million (ppm) for VOCs or 0.000 milligrams per cubic meter (mg/m^3) for mercury.

On January 5, 2021, AARCO backfilled the previously excavated section of Area 4 with clean sand. The backfill was placed in 8 to 10 inch lifts and compacted with a vibratory plate compactor to 95% compaction as verified by testing conducted by STI.

On January 7, 2021 AARCO loaded soil for transport to CEC for disposal from Area 1, Area 3, and Area 4.

On January 7, 2021, Preferred collected endpoint sample CM-EP-11-B(6ft) from inside Area 4.

Excavation and backfilling Area 1 and Area 4 in sections continued from January 8 through January 29, 2021. As AARCO completed excavation of a section, each section was backfilled, compacted with a vibratory plate compactor, and tested to verify 95% compaction prior to removal of the excavation shoring. On January 14, 2021, Preferred collected endpoint samples CM-EP-08 B(1ft), CMSW-01, and CMSW-02 from Area 1.

On January 14 and 15, 2021 AARCO loaded soil for transport to CEC for disposal from Area 4.

On January 28, 2021, Preferred collected endpoint sample CM-EP-09-B(6ft) and a duplicate sample from inside Area 4.

On March 2, 2021, AARCO uncovered the dry well (Area 7), which is located inside of Area 4 approximately 6 feet south of the substation building (See Figure 3). As the drywell was exposed, AARCO set up a shoring box around the dry well. The top ring of the dry well was broken up and the concrete was removed for disposal. After demolishing the top ring of the dry well, AARCO began excavating impacted soil from the floor of the dry well.

On March 5, 2021 AARCO loaded soil for transport to CEC for disposal from Area 4 and Area 7.

On March 8, 2021, AARCO completed excavation of Area 7 to a depth of 14.0 ft. bgs and excavation of the surrounding Area 6 to a depth of 10.0 ft. Preferred conducted field screening for VOCs and mercury and found no readings above background levels of 0.0 ppm for VOCs or 0.000 mg/m3 for mercury. Preferred collected two endpoint soil samples CM-DW-EP-01 B(14) from Area 7 and CM-EP-07 B(10) from Area 6.

On March 2, 2021, AARCO completed a portion of the excavation of Area 1. Preferred collected endpoint CM-EP-05-B(1).

AARCO excavated the next section of Area 4 between the drywell and the substation to a depth of 6.0 ft. bgs on March 9, 2021. Preferred collected endpoint sample CM-EP-06 B (6ft).

AARCO backfilled Area 4, Area 6, and Area 7 on March 11, and 12, 2021. Sand was placed in 8 to 10-inch lifts and compacted with a vibratory plate compactor to 95% compaction as verified by STI. Prior to completing backfilling of the dry well, AARCO began reconnecting a sanitary sewer line that ran through the dry well.

On March 15, 2021, AARCO used a vacuum truck to excavate Area 8 and Area 9. Area 8 was excavated to a depth of 6.0 ft. bgs. Sediment was removed to the floor of the 158th Street dry well (Area 9). Preferred collected endpoint soil sample CM-WM-EP-01 B(6) from Area 8.

On March 16, 2021, AARCO resumed backfilling Area 4, Area 6 and Area 7 and completed connection of the sanitary sewer line inside Area 7. Backfill was placed in 8 to 10-inch lifts and compacted to 95 % compaction with a vibratory plate compactor as verified by STI. A 6-inch layer of 3/4-inch stone was placed as top cover at Area 4, Area 6 and Area 7.

On March 17, 2021, AARCO began excavating the section of Area 4 west of Area 7. Field screening results found no mercury or VOC concentrations above background levels. At approximately 11:30 am, AARCO noted that water started entering the excavation. It was determined that the water service line to the substation had been struck by the excavator. AARCO notified the LIRR and JCC Construction (JCC) was dispatched to the Site to repair the line. JCC located the water shutoff valve; however,

the valve would not turn. JCC notified the New York City Department of Environmental Protection (NYCDEP). The NYCDEP was unable to respond until March 19, 2021. Preferred collected endpoint CM-EP-03 B(1 ft) from Area 1.

On March 18, 2021, AARCO loaded two trucks of soil from Area 7, Area 8, and Area 9, which were transported to CEC for disposal.

On March 19, 2021, the NYCDEP determined that water valves at 158th Street and 111th Avenue would have to be shut off until the repair of the water line could be completed. Road plates were placed over the excavation area until the scheduled repair date.

On March 30, 2021, AARCO used a vacuum tank truck to remove soil from the remaining portion of Area 4. After excavating to 6.0 ft. bgs, AARCO installed shoring to support the substation foundation and transformer yard fence. On March 31, 2021, AARCO continued excavating with the vacuum truck in Area 2, Area 4, and Area 5. Preferred collected endpoint soil samples CM-EP-01 B 2ft from Area 2, CM-EP-04 B 6ft from Area 4, and CM-EP-02 B 10ft from Area 5.

On April 1, 2021, AARCO removed the road plates covering the water line location. JCC completed the repair of the water line, connecting a 1-inch diameter water line and installing a new shut off valve next to the water meter pit at Area 8. AARCO exposed the water main connection and road box for New York State Department of Transportation inspection. After inspection and approval, AARCO backfilled the excavation and loaded the road plates for transport offsite.

On April 5, 2021, AARCO began backfilling the excavation along 158th Street where the water line was repaired with 8 to 10-inch lifts of sand compacted by a vibratory plate compactor. Backfilling and compaction of the excavation was completed on April 6, 2021. Compaction was verified at 95% by STI. Paul J. Petretti was onsite to survey the endpoint sample locations. On April 7, 2021, AARCO loaded a roll-off container with impacted soil for disposal to CEC. Backfilling operations continued with sand in 8 to 10-inch lifts. A 6-inch layer of 3/4-inch stone was placed as top cover.

On April 7 and 8, 2021 AARCO loaded the remaining stockpiled soil for transport to CEC for disposal from Area 2, Area 4, and Area 5. Backfilling operations continued as discussed above through April 9, 2021.

On April 12, 2021, the LIRR took the substation offline to allow AARCO to collect endpoint samples CM-B-EP-01, CM-B-EP-02, and CM-B-EP-03 from below the substation building floor slab. All holes were patched with concrete after sample collection was completed.

On April 13, 2021, AARCO installed new fence posts at the locations of previous fencing prior to remedial construction. Paul J. Petretti was onsite to survey final excavation limits. A new chain link fence was installed at the location of previous fencing prior to remedial construction and AARCO demobilized on April 14, 2021.

A summary of analytical results for endpoint samples is provided in Tables 2 and 2A, and on Figure 4.

A map of estimated cut and fill thicknesses for remedial activities at the Site are included in Figure 3.

4.3.2 Disposal Details

During the Remedial Action, a total of 296.21 tons of soil were removed from the Cedar Manor Substation and transported to CEC in New Jersey for disposal. A total of eleven (11) loads of soil were transported from the Cedar Manor Substation to CEC for disposal on January 4, 2021, January 7, 2021, January 14, 2021, January 15, 2021, March 5, 2021, March 18, 2021, April 7, 2021, and April 8, 2021. The soil was transported by Munoz Trucking, Corp., Waste Transporter Permit No. NJ-777 (Appendix E).

The loads were from combined remedial areas as listed on Table 3.

Three waste characterization soil samples were collected using composite sampling techniques. Analysis of the waste characterization samples revealed that the impacted soil was nonhazardous. A summary of the samples collected to characterize the waste, and associated analytical results are summarized on Table 4 and Table 4A.

The acceptance letter and commitment letter from the disposal facility owner is attached in Appendix E.

Manifests and bills of lading are included in electronic format in Appendix E.

4.3.3 On-Site Soil Reuse

There was no onsite reuse of soil excavated at the Site.

4.4 Remedial Performance/Documentation Sampling

Preferred used grab sampling techniques to collect endpoint soil samples at the Site. Endpoint samples were collected as follows:

- Area 1 – CM-EP-05-B(1) on 3/2/21, CM-EP-03 B(1 ft) on 3/17/2021, and CM-EP-08 B(1ft), CMSW-01, and CMSW-02 on 1/14/2021
- Area 2 – CM-EP-01 B 2ft on 3/31/21
- Area 3 – CM-EP 12-13 4 ft on 12/16/2021,
- Area 4 – CM-EP10-BC 6ft on 12/30/20, CM-EP-11-B(6ft) on 1/7/2021, CM-EP-09-B(6ft) and duplicate on 1/28/2021, CM-EP-06 B (6ft) on 3/9/21, CM-EP-04 B 6ft on 3/31/21
- Area 5 – CM-EP-02 B 10ft on 3/31/21
- Area 6 – CM-EP-07 B(10) on 3/8/2021
- Area 7 – CM-DW-EP-01 B(14) on 3/8/21. This sample was analyzed for mercury and also VOCs, semivolatile organic compounds, polychlorinated biphenyls, Target Analyte List metals, and total petroleum hydrocarbons.
- Area 8 – CM-WM-EP-01 B(6) on 3/15/21
- Substation Sub-slab Samples - CM-B-EP-01, CM-B-EP-02, and CM-B-EP-03 on 4/12/21

Quality control samples including a duplicate (1/28/2021) were collected during remedial activities at the Site.

On April 12, 2021, AARCO cored through the concrete floor of the substation building and collect soil samples CM-B-EP-01, CM-B-EP-02, and CM-B-EP-03. The samples were analyzed for mercury.

A table and figure summarizing all endpoint sampling is included in Tables 2 and 2A, and Figure 2, respectively. Based on a review of available endpoint samples, there were no exceedances of the applicable Residential Use, Industrial Use and Protection of Groundwater SCOs.

The laboratory data reports are provided electronically in Appendix F.

4.5 Imported Backfill

AARCO imported 219.97 tons of clean fill from 110 Sand Company and 85.65 tons of ¾-inch stone from Tilcon New York Inc. and placed it in each remedial area. The backfill was placed in 6 to 10 inch thick lifts and compacted with a vibratory plate compactor to 95% compaction. Analytical results provided for the fill material demonstrated that the backfill material was nonhazardous and concentrations were reported below the Allowable Levels for Imported Fill or Soil, Residential, Commercial or Industrial Use. After a review of the analytical results the backfill was approved for use by the LIRR and the NYSDEC case manager (email from Charles Post, dated January 30, 2020 in Appendix D).

Table 5 lists the backfill imported to the Site for each of the areas; however, the loads of clean fill and ¾-inch stone were distributed among the remedial areas and the exact amount of soil or stone backfilled in each area is not available.

A table summarizing chemical analytical results for backfill, in comparison to allowable levels, is provided in Table 6. A figure showing the Site locations where backfill was used at the Site is shown in Figure 2.

Imported material documentation is provided in Appendix D.

4.6 Contamination Remaining at the Site

Mercury concentrations in soils remaining exceed the Unrestricted SCOs; however, consistent with the RAWP, no concentrations exceed the Industrial SCO within the substation fenced area and no concentrations exceed the Residential SCO in the remediated areas outside the fenced area. Table 7 and Figure 5 summarize the results of all soil samples remaining at the Site after completion of the Remedial Action that exceed the Track 1 (unrestricted) SCOs. Figure 6 summarizes the results of all soil samples remaining at the Site after completion of the remedial action that meet the SCOs for unrestricted use of the Site.

Since contaminated soil remains beneath the Site after completion of the Remedial Action, Institutional Controls are required to protect human health and the environment. This Institutional Control (IC) is described in the following sections. Long-term management of this IC and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.7 Institutional Controls

The Site remedy requires that a Deed Restriction be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to industrial uses only.

The Deed Restriction for the Site was executed by the Department on October 12, 2022, and filed with the Queens County Clerk on May 29, 2024. The County Recording Identifier number for this filing is 2024040900678001. A copy of the deed restriction and proof of filing is provided in Appendix G.

4.8 Deviations from the Remedial Action Work Plan

There were no deviations from the June 23, 2011 RAWP.

TABLES

Table 1
Soil Cleanup Objectives (SCOs)
LIRR Cedar Manor Substation, Queens, New York

Analyte	Soil Cleanup Objective (mg/kg)		
	Residential	Industrial	Protection of Groundwater
Mercury	0.81	5.7	0.73

Notes:
Soil Cleanup Objectives as published in
6NYCRR Part 375-6.8b.
mg/kg - milligrams per kilogram

Table 2
Endpoint Sampling Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375	CM-EP-03 B(1 ft)	CM-EP-05-B(1)	CM-EP-08 B(1ft)	CMSW-01	CMSW-02
Lab ID	Industrial Use	21C0843-01	21C0101-01	21A0563-01	21A0563-03	21A0563-02
Location ID	Soil	CMEP-03	CMEP-05	CMEP-08	CMSW-01	CMSW-02
Area	Cleanup	Area 1	Area 1	Area 1	Area 1	Area 1
Date	Objectives	3/17/2021	3/2/2021	1/14/2021	1/14/2021	1/14/2021
Mercury (mg/kg)	5.7	ND	ND	0.223	ND	ND

Sample ID	NYSDEC Part 375	CM-EP 12-13 4 ft	CM-EP-06 B (6ft)	CM-EP-09-B(6ft)	CM-EP-09-B(6ft) Dup	CM-EP10-BC 6ft	CM-EP-11-B(6ft)
Lab ID	Industrial Use	20L0916-01	21C0436-01	21A1152-01	21A1152-02	20L1331-01	21A0233-01
Location ID	Soil	CMEP-12	CMEP-06	CMEP-09	CMEP-09	CMEP-10	CMEP-11
Area	Cleanup	Area 3	Area 4	Area 4	Area 4	Area 4	Area 4
Date	Objectives	12/16/2020	3/9/2021	1/28/2021	1/28/2021	12/30/2020	1/7/2021
Mercury (mg/kg)	5.7	2.0	ND	ND	ND	ND	ND

Sample ID	NYSDEC Part 375	CM-EP-07 B(10)	CM-B-EP-01	CM-B-EP-02	CM-B-EP-03
Lab ID	Industrial Use	21C0390-02	21D0545-01	21D0545-02	21D0545-03
Location ID	Soil	CMEP-07	CMBEP-01	CMBEP-02	CMBEP-03
Area	Cleanup	Area 6	Sub-Slab	Sub-Slab	Sub-Slab
Date	Objectives	3/8/2021	4/12/2021	4/12/2021	4/12/2021
Mercury (mg/kg)	5.7	ND	ND	ND	ND

Outside the Facility Fence

Sample ID	NYSDEC Part 375	CM-EP-01 B 2ft	CM-EP-04 B 6ft	CM-EP-02 B 10ft	CM-WM-EP-01 B(6)
Lab ID	Residential Use	21C1526-03	21C1526-02	21C1526-01	21C0697-01
Location ID	Soil	CMEP-01	CMEP-04	CMEP-02	CMWMEP-01
Area	Cleanup	Area 2	Area 4	Area 5	Area 8
Date	Objectives	3/31/2021	3/31/2021	3/31/2021	3/15/2021
Mercury (mg/kg)	0.81	ND	ND	ND	ND

Surrounding Dry Well

Sample ID	NYSDEC Part 375	CM-DW-EP-01 B(14)
Lab ID	Protection of	21C0390-01
Location ID	Groundwater	CMDWEP-01
Area	Soil Cleanup	Area 7
Date	Objectives	3/8/2021
Mercury (mg/kg)	0.73	ND

mg/kg - milligrams per kilogram
ND - Not Detected

Table 2A
Dry Well End Point Sampling Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives	CM-DW-EP-01-B(14)
Lab ID		21C0390-01
Location ID		CMDWEP-01
Area		Area 7
Date		3/9/2021
Volatile Organics (µg/kg)		
1,1,1,2-Tetrachloroethane	NL	ND
1,1,1-Trichloroethane	0.68	ND
1,1,2,2-Tetrachloroethane	NL	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NL	ND
1,1,2-Trichlorehtane	NL	ND
1,1-Dichloroethane	0.27	ND
1,1-Dichloroehtylene	0.33	ND
1,2,3-Trichlorobenzene	NL	ND
1,2,3-Trichloropropane	NL	ND
1,2,4-Trichlorobenzene	NL	ND
1,2,4-Trimethylbenzene	NL	ND
1,2-Dibromo-3-chloropropane	NL	ND
1,2-Dibromoethane	NL	ND
1,2-Dichlorobenzene	1.1	ND
1,2-Dichloroethane	0.02	ND
1,2-Dichloropropane	NL	ND
1,3,5-Trimethylbenzene	NL	ND
1,3-Dichlorobenzene	2.4	ND
1,4-Dichlorobenzene	1.8	ND
1,4-Dioxane	0.1	ND
2-Butanone	NL	7.4 J, B
2-Hexanone	NL	ND
Acetone	0.05	ND
Acrolein	NL	ND
Benzene	0.06	ND
Bromochlormethane	NL	ND
Bromodichloromethane	NL	ND
Bromoform	NL	ND
Bromomethane	NL	4.8J
Carbon Disulfie	NL	ND
Chlorobenzene	1.1	ND
Chloroethane	NL	ND
Chloroform	0.37	ND
Chloromethane	NL	ND
cis-1,2-Dichloroethylene	0.25	ND
cis-1,3-Dichloropropylene	NL	ND
Cyclohexane	NL	ND
Dibromochloromethane	NL	ND
Dibromoethane	NL	ND
Dichlorodifluoromethane	NL	ND
Ethyl Benzene	1	ND
Hexachlorobutadiene	NL	ND
Isopropylbenzene	NL	ND
Methyl Acetate	NL	ND
Methyl-tert-butyl-ether (MTBE)	0.93	ND
Methylcylcohexane	NL	ND
n-Butylbenzene	~	ND
n-Propylbenzne	3.9	ND
o-Xylene	~	ND
p & m-Xylenes	~	ND
p-Isopropopyltoluene	NL	ND
sec-Butylbenzene	11	ND
styrene	NL	ND
tert-Butyl alcohol (TBA)	NL	14
tert-Butylbenzene	5.9	ND
Tetrachloroethylene	1.3	ND
Toluene	0.7	ND
trans-1,2-Dichloroethylene	0.19	ND
trans-1,3-Dichloropropylene	NL	ND

Table 2A
Dry Well End Point Sampling Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives	CM-DW-EP-01-B(14)
Lab ID		21C0390-01
Location ID		CMDWEP-01
Area		Area 7
Date		3/9/2021
*trans-1,4-dichloro-2-butene	NL	ND
Trichloroethylene	0.47	ND
Vinyl Chloride	0.02	ND
Xylenes, Total	1.6	ND
Semi-Volatile (µg/kg)		
1,1-Biphenyl	NL	ND
1,2,4,5-Tetrachlorobenzene	NL	ND
1,2,4-Trichlorobenzene	NL	ND
1,2-Dichlorobenzene	1.1	ND
1,2-Diphenylhydrazine (as Azobenzene)	NL	ND
1,3-Dichlorobenzene	2.4	ND
1,4-Dichlorobenzene	1.8	ND
2,3,4,6-Tetrachlorophenol	NL	ND
2,4,5-Trichlorophenol	NL	ND
2,4,6-Trichlorophenol	NL	ND
2,4-Dichlorophenol	NL	ND
2,4-Dimethylphenol	NL	ND
2,4-Dinitrophenol	NL	ND
2,4-Dinitrotoluene	NL	ND
2,6-Dinitrotoluene	NL	ND
2-Chloronaphthalene	NL	ND
2-Chlorophenol	NL	ND
2-Methylnaphthalene	NL	ND
2-Methylphenol	NL	ND
2-Nitroaniline	NL	ND
2-Nitrophenol	NL	ND
3- & 4-Methylphenols	NL	ND
3,3-Dichlorobenzidine	NL	ND
3-Nitroaniline ND	NL	ND
4,6-Dinitro-2-methylphenol	NL	ND
4-Bromophenyl phenyl ether	NL	ND
4-Chloro-3-methylphenol	NL	ND
4-Chloroaniline	NL	ND
4-Chlorophenyl phenyl ether	NL	ND
4-Nitrophenol	NL	ND
Acenaphthene	98	ND
Acenaphthylene	107	ND
Acetophenone	NL	ND
Aniline	NL	ND
Anthracene	1000	ND
Atrazine	NL	ND
Benzaldehyde	NL	ND
Benzidene	NL	ND
Benzo(a)anthracene	1	ND
Benzo(a)pyrene	22	ND
Benzo(b)fluoranthene	1.7	ND
Benzo(g,h,i)perylene	1000	ND
Benzo(k)fluoranthene	1.7	ND
Benzoic acid	NL	ND
Benzyl alcohol	NL	ND
Benzyl butyl phthalate	NL	ND
Bis(2-chloroethoxy)methane	NL	ND
Bis(2-chloroethyl)ether	NL	ND
Bis(2-chloroisopropyl)ether	NL	ND
Bis(2-ethylhexyl)phthalate	NL	ND
Caprolactam	NL	ND
Carbazole	NL	ND
Chrysene	1	ND
Dibenzo(a,h)anthracene	1000	ND
Dibenzofuran	NL	ND

Table 2A
Dry Well End Point Sampling Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives	CM-DW-EP-01-B(14)
Lab ID		21C0390-01
Location ID		CMDWEP-01
Area		Area 7
Date		3/9/2021
Diethyl phthalate	NL	ND
Dimethyl phthalate	NL	ND
Di-n-butyl phthalate	NL	ND
Di-n-octyl phthalate	NL	ND
* Diphenylamine	NL	ND
Fluoranthene	1000	ND
Fluorene	386	ND
Hexachlorobenzene	NL	ND
Hexachlorobutadiene	NL	ND
Hexachlorocyclopentadiene	NL	ND
Hexachloroethane	NL	ND
Indeno(1,2,3-cd)pyrene	8.2	ND
Isophorone	NL	ND
Naphthalene	12	ND
Nitrobenzene	NL	ND
N-Nitrosodimethylamine	NL	ND
N-nitroso-di-n-propylamine	NL	ND
N-Nitrosodiphenylamine	NL	ND
Pentachlorophenol	0.8	ND
Phenanthrene	1000	ND
Phenol	0.33	ND
Pyrene	1000	ND
Polychlorinated Biphenyls (mg/kg)		
Aroclor 1016	NL	ND
Aroclor 1221	NL	ND
Aroclor 1232	NL	ND
Aroclor 1242	NL	ND
Aroclor 1248	NL	ND
Aroclor 1254	NL	ND
Aroclor 1260	NL	ND
Total PCBs	3.2	ND
Total Petroleum Hydrocarbons-DRO (mg/kg)		
TPH-DRO	NL	ND
Metals, Target Analyte (mg/kg)		
Arsenic	16	ND
Aluminum	NL	2480
Antimony	NL	ND
Barium	820	20.7
Beryllium	47	ND
Cadmium	7.5	ND
Calcium	NL	555 B
Chromium	19	8.12
Cobalt	NL	3.18
Copper	1720	5.82
Iron	NL	12100
Lead	450	1.63
Magnesium	NL	979
Manganese	2000	217
Nickel	130	7.18
Potassium	NL	400
Selenium	4	ND
Silver	8.3	ND
Sodium	NL	ND
Thallium	NL	ND
Vanadium	NL	11.7
Zinc	2480	12.8

µg/kg - micrograms per kilogram
ND - Analyte Not Detected

Table 3
Offsite Soil/Waste Disposal Tonnage and Facilities
LIRR Cedar Manor Substation, Queens, New York

Date	Soil Weight (tons)	Disposal Destination
1/4/2021	56.49	Clean Earth of Carteret
1/7/2021	29.48	Clean Earth of Carteret
1/14/2021	28.22	Clean Earth of Carteret
1/15/2021	29.28	Clean Earth of Carteret
3/5/2021	59.07	Clean Earth of Carteret
3/18/2021	53.54	Clean Earth of Carteret
4/7/2021	29.67	Clean Earth of Carteret
4/8/2021	10.46	Clean Earth of Carteret
Total	296.21	

Table 4
Waste Characterization Sample Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375	CM-Area9-DW-WC-1		CM-Area9-DW-WC-1-VOC grab #1 (9-10')		CM-Area7-DW-WC-2		CM-Area7-DW-WC-2-VOC grab #2 (13-14')		CM-CS-1		CM-CS-1-VOC grab #2 (4-6')	
Laboratory ID	Restricted Use	19J0828-01		19J0828-02		19J0828-03		19J0828-04		19J0828-05		19J0828-06	
Sampling Date	Soil Cleanup	10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019	
Matrix	Objectives-Industrial	Soil		Soil		Soil		Soil		Soil		Soil	
Volatile Organics by USEPA 8260 (mg/kg)		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Dilution Factor	mg/Kg			1				1				1	
1,1,1,2-Tetrachloroethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1,1-Trichloroethane	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1,2,2-Tetrachloroethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1,2-Trichloroethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1-Dichloroethane	480	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,1-Dichloroethylene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2,3-Trichlorobenzene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2,3-Trichloropropane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2,4-Trichlorobenzene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2,4-Trimethylbenzene	380	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2-Dibromo-3-chloropropane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2-Dibromoethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2-Dichlorobenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2-Dichloroethane	60	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,2-Dichloropropane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,3,5-Trimethylbenzene	380	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,3-Dichlorobenzene	560	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,4-Dichlorobenzene	250	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
1,4-Dioxane	250	NT		0.0500	U	NT		0.0490	U	NT		0.0480	U
2-Butanone	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
2-Hexanone	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
4-Methyl-2-pentanone	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Acetone	1000	NT		0.00500	U	NT		0.00490	U	NT		0.00480	U
Acrolein	~	NT		0.00500	U	NT		0.00490	U	NT		0.00480	U
Acrylonitrile	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Benzene	89	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Bromochloromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Bromodichloromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Bromoform	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Bromomethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Carbon disulfide	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Carbon tetrachloride	44	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Chlorobenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Chloroethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Chloroform	700	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Chloromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
cis-1,2-Dichloroethylene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
cis-1,3-Dichloropropylene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Cyclohexane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Dibromochloromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Dibromomethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Dichlorodifluoromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Ethyl Benzene	780	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Hexachlorobutadiene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Isopropylbenzene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Methyl acetate	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Methyl tert-butyl ether (MTBE)	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Methylcyclohexane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Methylene chloride	1000	NT		0.00500	U	NT		0.00790	J	NT		0.00480	U
n-Butylbenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
n-Propylbenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
o-Xylene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
p- & m- Xylenes	~	NT		0.00500	U	NT		0.00490	U	NT		0.00480	U
p-Isopropyltoluene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
sec-Butylbenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Styrene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
tert-Butyl alcohol (TBA)	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
tert-Butylbenzene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Tetrachloroethylene	300	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Toluene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
trans-1,2-Dichloroethylene	1000	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
trans-1,3-Dichloropropylene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
trans-1,4-dichloro-2-butene	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Trichloroethylene	400	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Trichlorofluoromethane	~	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Vinyl Chloride	27	NT		0.00250	U	NT		0.00250	U	NT		0.00240	U
Xylenes, Total	1000	NT		0.00750	U	NT		0.00740	U	NT		0.00730	U

Table 4
Waste Characterization Sample Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375	CM-Area9-DW-WC-1		CM-Area9-DW-WC-1-VOC grab #1 (9-10')		CM-Area7-DW-WC-2		CM-Area7-DW-WC-2-VOC grab #2 (13-14')		CM-CS-1		CM-CS-1-VOC grab #2 (4-6')	
Laboratory ID	Restricted Use	19J0828-01		19J0828-02		19J0828-03		19J0828-04		19J0828-05		19J0828-06	
Sampling Date	Soil Cleanup	10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019	
Matrix	Objectives-Industrial	Soil		Soil		Soil		Soil		Soil		Soil	
Semi-Volatiles by USEPA 8270 (mg/kg)	**mg/Kg**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		2				2				2			
1,1-Biphenyl	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
1,2,4,5-Tetrachlorobenzene	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
1,2,4-Trichlorobenzene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
1,2-Dichlorobenzene	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
1,2-Diphenylhydrazine (as Azobenzene)	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
1,3-Dichlorobenzene	560	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
1,4-Dichlorobenzene	250	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,3,4,6-Tetrachlorophenol	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
2,4,5-Trichlorophenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,4,6-Trichlorophenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,4-Dichlorophenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,4-Dimethylphenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,4-Dinitrophenol	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
2,4-Dinitrotoluene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2,6-Dinitrotoluene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2-Chloronaphthalene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2-Chlorophenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2-Methylnaphthalene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2-Methylphenol	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
2-Nitroaniline	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
2-Nitrophenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
3- & 4-Methylphenols	~	0.0984	JD	NT		0.0431	U	NT		0.0451	U	NT	
3,3-Dichlorobenzidine	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
3-Nitroaniline	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
4,6-Dinitro-2-methylphenol	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
4-Bromophenyl phenyl ether	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
4-Chloro-3-methylphenol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
4-Chloroaniline	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
4-Chlorophenyl phenyl ether	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
4-Nitroaniline	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
4-Nitrophenol	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
Acenaphthene	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Acenaphthylene	1000	0.0551	JD	NT		0.0431	U	NT		0.0451	U	NT	
Acetophenone	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Aniline	~	0.213	U	NT		0.172	U	NT		0.180	U	NT	
Anthracene	1000	0.109	D	NT		0.0431	U	NT		0.0546	JD	NT	
Atrazine	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Benzaldehyde	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Benzidine	~	0.213	U	NT		0.172	U	NT		0.180	U	NT	
Benzo(a)anthracene	11	0.362	D	NT		0.0431	U	NT		0.233	D	NT	
Benzo(a)pyrene	1.1	0.345	D	NT		0.0431	U	NT		0.259	D	NT	
Benzo(b)fluoranthene	11	0.315	D	NT		0.0431	U	NT		0.259	D	NT	
Benzo(g,h,i)perylene	1000	0.381	D	NT		0.0431	U	NT		0.172	D	NT	
Benzo(k)fluoranthene	110	0.291	D	NT		0.0431	U	NT		0.220	D	NT	
Benzoic acid	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Benzyl alcohol	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Benzyl butyl phthalate	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Bis(2-chloroethoxy)methane	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Bis(2-chloroethyl)ether	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Bis(2-chloroisopropyl)ether	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Bis(2-ethylhexyl)phthalate	~	1.280	D	NT		0.0431	U	NT		0.456	D	NT	
Caprolactam	~	0.106	U	NT		0.0861	U	NT		0.0899	U	NT	
Carbazole	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Chrysene	110	0.349	D	NT		0.0431	U	NT		0.232	D	NT	
Dibenzo(a,h)anthracene	1.1	0.0865	JD	NT		0.0431	U	NT		0.0596	JD	NT	
Dibenzofuran	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Diethyl phthalate	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Dimethyl phthalate	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Di-n-butyl phthalate	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Di-n-octyl phthalate	~	0.0619	JD	NT		0.0431	U	NT		0.0451	U	NT	
Fluoranthene	1000	0.545	D	NT		0.0431	U	NT		0.368	D	NT	
Fluorene	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Hexachlorobenzene	12	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Hexachlorobutadiene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Hexachlorocyclopentadiene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Hexachloroethane	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Indeno(1,2,3-cd)pyrene	11	0.245	D	NT		0.0431	U	NT		0.188	D	NT	
Isophorone	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Naphthalene	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Nitrobenzene	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
N-Nitrosodimethylamine	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
N-nitroso-di-n-propylamine	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
N-Nitrosodiphenylamine	~	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	

Table 4
Waste Characterization Sample Results
LIRR Cedar Manor Substation, Queens, New York

Sample ID	NYSDEC Part 375	CM-Area9-DW-WC-1		CM-Area9-DW-WC-1-VOC grab #1 (9-10')		CM-Area7-DW-WC-2		CM-Area7-DW-WC-2-VOC grab #2 (13-14')		CM-CS-1		CM-CS-1-VOC grab #2 (4-6')	
Laboratory ID	Restricted Use	19J0828-01		19J0828-02		19J0828-03		19J0828-04		19J0828-05		19J0828-06	
Sampling Date	Soil Cleanup	10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019		10/17/2019	
Matrix	Objectives-Industrial	Soil		Soil		Soil		Soil		Soil		Soil	
Pentachlorophenol	55	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Phenanthrene	1000	0.318	D	NT		0.0431	U	NT		0.156	D	NT	
Phenol	1000	0.0532	U	NT		0.0431	U	NT		0.0451	U	NT	
Pyrene	1000	0.530	D	NT		0.0431	U	NT		0.338	D	NT	
Total Petroleum Hydrocarbons-DRO (mg/kg)		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Total Petroleum Hydrocarbons-DRO	~	1,360		NT		16.600		NT		42.300		NT	
Pesticides by USEAP 8081 (mg/kg)	**mg/Kg**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		5				5				5			
4,4'-DDD	180	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
4,4'-DDE	120	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
4,4'-DDT	94	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Aldrin	1.4	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
alpha-BHC	6.8	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
alpha-Chlordane	47	0.00550	D	NT		0.00170	U	NT		0.00178	U	NT	
beta-BHC	14	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Chlordane, total	~	0.0419	U	NT		0.0341	U	NT		0.0357	U	NT	
delta-BHC	1000	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Dieldrin	2.8	0.0107	D	NT		0.00170	U	NT		0.00178	U	NT	
Endosulfan I	920	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Endosulfan II	920	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Endosulfan sulfate	920	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Endrin	410	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Endrin aldehyde	~	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Endrin ketone	~	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
gamma-BHC (Lindane)	23	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
gamma-Chlordane	~	0.00305	DP	NT		0.00170	U	NT		0.00178	U	NT	
Heptachlor	29	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Heptachlor epoxide	~	0.00209	U	NT		0.00170	U	NT		0.00178	U	NT	
Methoxychlor	~	0.0105	U	NT		0.00852	U	NT		0.00892	U	NT	
Toxaphene	~	0.106	U	NT		0.0862	U	NT		0.0903	U	NT	
RCRA Metals (mg/kg)	**mg/Kg**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Arsenic	16	2.030		NT		1.570	U	NT		1.630	U	NT	
Barium	10000	299		NT		18.700		NT		57.400		NT	
Cadmium	60	1.310		NT		0.314	U	NT		0.785		NT	
Chromium	~	15.200		NT		6.740		NT		12.500		NT	
Lead	3900	263		NT		4.760		NT		123		NT	
Selenium	6800	3.190	U	NT		2.620	U	NT		2.720	U	NT	
Silver	6800	0.638	U	NT		0.523	U	NT		0.544	U	NT	
Metals by USEPA 6010 (mg/kg)		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Beryllium	2700	0.0638	U	NT		0.0523	U	NT		0.0544	U	NT	
Copper	10000	145		NT		6.620		NT		53.400		NT	
Nickel	10000	24.800		NT		5.850		NT		11		NT	
Vanadium	~	23.600		NT		7.920		NT		16.400		NT	
Zinc	10000	512		NT		24.400		NT		168		NT	
Mercury by USEPA 7473 (mg/kg)		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Mercury	5.7	10.400		NT		0.745		NT		13.500		NT	
Chromium, Hexavalent (mg/kg)		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Chromium, Hexavalent	800	0.638	U	NT		0.523	U	NT		0.544	U	NT	
Herbicides, NJDEP/TCL/Part 375 List	**mg/Kg**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
2,4,5-T	~	0.0251	U	NT		0.0207	U	NT		0.0217	U	NT	
2,4,5-TP (Silvex)	1000	0.0251	U	NT		0.0207	U	NT		0.0217	U	NT	
2,4-D	~	0.0251	U	NT		0.0207	U	NT		0.0217	U	NT	
Polychlorinated Biphenyls (PCB)	**mg/Kg**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Dilution Factor		1				1				1			
Aroclor 1016	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1221	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1232	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1242	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1248	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1254	~	0.0211	U	NT		0.0172	U	NT		0.0180	U	NT	
Aroclor 1260	~	0.0426		NT		0.0172	U	NT		0.0495		NT	
Total PCBs	25	0.0426		NT		0.0172	U	NT		0.0495		NT	

NOTES:
Qualifiers (Q)
U - analyte not detected at or above the level indicated
NT - this indicates the analyte was not a target for this sample
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

Table 4A
Waste Characterization Soil Sample Results
Toxicity Characteristic Leaching Procedure (TCLP) and RCRA Characteristics
LIRR Cedar Manor Substation, Queens, New York

Sample ID Laboratory ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Commercial or Industrial	CM-Area9-DW-WC-1 19J0828-01 10/17/2019 Soil		CM-Area7-DW-WC-2 19J0828-03 10/17/2019 Soil		CM-CS-1 19J0828-05 10/17/2019 Soil	
Compound		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Volatile Organics, RCRA List (mg/L)							
Dilution Factor		10		10		10	
1,1-Dichloroethylene	~	0.0250	U	0.0250	U	0.0250	U
1,2-Dichloroethane	~	0.0250	U	0.0250	U	0.0250	U
1,4-Dichlorobenzene	~	0.0250	U	0.0250	U	0.0250	U
2-Butanone	~	0.0250	U	0.0250	U	0.0250	U
Benzene	~	0.0250	U	0.0250	U	0.0250	U
Carbon tetrachloride	~	0.0250	U	0.0250	U	0.0250	U
Chlorobenzene	~	0.0250	U	0.0250	U	0.0250	U
Chloroform	~	0.0250	U	0.0250	U	0.0250	U
Tetrachloroethylene	~	0.0250	U	0.0250	U	0.0250	U
Trichloroethylene	~	0.0250	U	0.0250	U	0.0250	U
Vinyl Chloride	~	0.0250	U	0.0250	U	0.0250	U
Herbicides, NJDEP/TCL/Part 375 List (mg/Kg)							
Dilution Factor		1		1		1	
2,4,5-T	~	0.0251	U	0.0207	U	0.0217	U
2,4,5-TP (Silvex)	~	0.0251	U	0.0207	U	0.0217	U
2,4-D	~	0.0251	U	0.0207	U	0.0217	U
Semi-Volatiles, RCRA Target List (mg/L)	~						
Dilution Factor	~	1		1		1	
1,4-Dichlorobenzene	~	0.00645	U	0.00645	U	0.00645	U
2,4,5-Trichlorophenol	~	0.00722	U	0.00722	U	0.00722	U
2,4,6-Trichlorophenol	~	0.00654	U	0.00654	U	0.00654	U
2,4-Dinitrotoluene	~	0.00473	U	0.00473	U	0.00473	U
2-Methylphenol	~	0.00171	U	0.00171	U	0.00171	U
3- & 4-Methylphenols	~	0.00743	U	0.00743	U	0.00743	U
Cresols, total	~	0.00740	U	0.00740	U	0.00740	U
Hexachlorobenzene	~	0.00591	U	0.00591	U	0.00591	U
Hexachlorobutadiene	~	0.00662	U	0.00662	U	0.00662	U
Hexachloroethane	~	0.00726	U	0.00726	U	0.00726	U
Nitrobenzene	~	0.00393	U	0.00393	U	0.00393	U
Pentachlorophenol	~	0.00753	U	0.00753	U	0.00753	U
Pyridine	~	0.00637	U	0.00637	U	0.00637	U
RCRA Metals (mg/L)							
Dilution Factor		1		1		1	
Arsenic	5	0.375	U	0.375	U	0.375	U
Barium	100	0.656		0.625	U	0.721	
Cadmium	1	0.0750	U	0.0750	U	0.0750	U
Chromium	5	0.125	U	0.125	U	0.125	U
Lead	5	0.125	U	0.125	U	0.154	
Selenium	1	0.625	U	0.625	U	0.625	U
Silver	5	0.125	U	0.125	U	0.125	U
Mercury TCLP by 7473 (mg/L)							
Dilution Factor		1		1		1	
Mercury	0.2	0.00020	U	0.00020	U	0.00020	U
Metals by EPA 6010 (mg/L)							
Dilution Factor		1		1		1	
Copper	~	0.500	U	0.500	U	0.500	U
Nickel	~	0.250	U	0.250	U	0.250	U
Zinc	~	2.080		0.625	U	1.060	
RCRA Characteristics							
Corrosivity by SM 4500/EPA 9045D (pH units)	<=2 or >=12.5	8.200		8.280		7.010	
Cyanide, total (mg/kg)	250	0.638	U	0.523	U	0.544	U
Ignitability	Ignit.	Non-Ignit.		Non-Ignit.		Non-Ignit.	
ORP (Oxidation-Reduction Potential) (mV)	~	370		360		350	
pH (std. units)	<=2 or >=12.5	6.310		6.930		7.700	
Reactivity - Cyanide (mg/L)	250	0.250	U	0.250	U	0.250	U
Reactivity - Sulfide (mg/L)	500	15	U	16		15	U
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor		1		1		1	
Aroclor 1016	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1221	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1232	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1242	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1248	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1254	~	0.0211	U	0.0172	U	0.0180	U
Aroclor 1260	~	0.0426		0.0172	U	0.0495	
Total PCBs	~	0.0426		0.0172	U	0.0495	

Qualifiers (Q)
mg/L - milligrams per Liter
mg/kg - milligrams per kilogram
mV - millivolts

RCRA - Resource Conservation Act
TCL Target Compund List
U - analyte not detected at or above the level indicated

Table 5
Backfill Sources and Quantities
LIRR Cedar Manor Substation
Queens, New York

Backfill/Source	Ticket No.	Date	Quantity (tons)
Sand			
110 Sand Company	643287	12/28/2020	8.58
110 Sand Company	643769	1/5/2021	22.59
110 Sand Company	644314	1/11/2021	24.52
110 Sand Company	644424	1/12/2021	22.35
110 Sand Company	646035	1/29/2021	24.65
110 Sand Company	648653	3/11/2021	21.20
110 Sand Company	648773	3/12/2021	22.08
110 Sand Company	649120	3/16/2021	21.66
110 Sand Company	650885	4/5/2021	22.33
110 Sand Company	651011	4/6/2021	9.91
110 Sand Company	651159	4/7/2021	20.10
		Total	219.97
3/4" Stone			
Tilcon	21323220	1/6/2021	20.2
Tilcon	21326229	3/15/2021	20.25
Tilcon	21327507	4/6/2021	25.1
Tilcon	21327477	4/8/2021	20.1
		Total	85.65

Table 6
Analytical Results and Associated Limits for Imported Material
LIRR Cedar Manor Substation, Queens, New York

Sample ID		WC-1 g1		WC-1 g2		WC-1 g3		WC-1 Comp	
York ID	Allowable Levels for	19K0921-01		19K0921-02		19K0921-03		19K0921-04	
Sampling Date	Imported Fill or Soil	11/21/19		11/21/19		11/21/19		11/21/19	
Client Matrix	Commercial or Industiral	Soil		Soil		Soil		Soil	
Compound		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Volatile Organics, NYSDEC Part 375 List (mg/kg)									
Dilution Factor		1		1		1			
1,1,1-Trichloroethane	0.68	0.00280	U	0.00310	U	0.00250	U	NT	
1,1-Dichloroethane	0.27	0.00280	U	0.00310	U	0.00250	U	NT	
1,1-Dichloroethylene	0.33	0.00280	U	0.00310	U	0.00250	U	NT	
1,2,4-Trimethylbenzene	3.6	0.00280	U	0.00310	U	0.00250	U	NT	
1,2-Dichlorobenzene	1.1	0.00280	U	0.00310	U	0.00250	U	NT	
1,2-Dichloroethane	0.02	0.00280	U	0.00310	U	0.00250	U	NT	
1,3,5-Trimethylbenzene	8.4	0.00280	U	0.00310	U	0.00250	U	NT	
1,3-Dichlorobenzene	2.4	0.00280	U	0.00310	U	0.00250	U	NT	
1,4-Dichlorobenzene	1.8	0.00280	U	0.00310	U	0.00250	U	NT	
1,4-Dioxane	0.1	0.0570	U	0.0620	U	0.0510	U	NT	
2-Butanone	0.12	0.00280	U	0.00310	U	0.00250	U	NT	
Acetone	0.05	0.0460		0.00620	U	0.0120		NT	
Benzene	0.06	0.00280	U	0.00310	U	0.00250	U	NT	
Carbon tetrachloride	0.76	0.00280	U	0.00310	U	0.00250	U	NT	
Chlorobenzene	1.1	0.00280	U	0.00310	U	0.00250	U	NT	
Chloroform	0.37	0.00280	U	0.00310	U	0.00250	U	NT	
cis-1,2-Dichloroethylene	0.25	0.00280	U	0.00310	U	0.00250	U	NT	
Ethyl Benzene	1	0.00280	U	0.00310	U	0.00250	U	NT	
Methyl tert-butyl ether (MTBE)	0.93	0.00280	U	0.00310	U	0.00250	U	NT	
Methylene chloride	0.05	0.00570	U	0.00620	U	0.00510	U	NT	
Naphthalene	~	0.00280	U	0.00310	U	0.00250	U	NT	
n-Butylbenzene	12	0.00280	U	0.00310	U	0.00250	U	NT	
n-Propylbenzene	3.9	0.00280	U	0.00310	U	0.00250	U	NT	
o-Xylene	~	0.00280	U	0.00310	U	0.00250	U	NT	
p- & m- Xylenes	~	0.00570	U	0.00620	U	0.00510	U	NT	
sec-Butylbenzene	11	0.00280	U	0.00310	U	0.00250	U	NT	
tert-Butylbenzene	5.9	0.00280	U	0.00310	U	0.00250	U	NT	
Tetrachloroethylene	1.3	0.00280	U	0.00310	U	0.00250	U	NT	
Toluene	0.7	0.00280	U	0.00310	U	0.00250	U	NT	
trans-1,2-Dichloroethylene	0.19	0.00280	U	0.00310	U	0.00250	U	NT	
Trichloroethylene	0.47	0.00280	U	0.00310	U	0.00250	U	NT	
Vinyl Chloride	0.02	0.00280	U	0.00310	U	0.00250	U	NT	
Xylenes, Total	1.6	0.00850	U	0.00930	U	0.00760	U	NT	
Semi-Volatiles, NYSDEC Part 375 List (mg/kg)									
Dilution Factor								2	
2-Methylphenol	0.33	NT		NT		NT		0.0428	U
3- & 4-Methylphenols	~	NT		NT		NT		0.0428	U
Acenaphthene	98	NT		NT		NT		0.0428	U
Acenaphthylene	107	NT		NT		NT		0.0428	U
Anthracene	500	NT		NT		NT		0.0428	U
Benzo(a)anthracene	1	NT		NT		NT		0.0428	U
Benzo(a)pyrene	1	NT		NT		NT		0.0428	U
Benzo(b)fluoranthene	1.7	NT		NT		NT		0.0428	U
Benzo(g,h,i)perylene	500	NT		NT		NT		0.0428	U
Benzo(k)fluoranthene	1.7	NT		NT		NT		0.0428	U
Chrysene	1	NT		NT		NT		0.0428	U
Dibenzo(a,h)anthracene	0.56	NT		NT		NT		0.0428	U
Dibenzofuran	~	NT		NT		NT		0.0428	U
Fluoranthene	500	NT		NT		NT		0.0428	U
Fluorene	386	NT		NT		NT		0.0428	U
Hexachlorobenzene	~	NT		NT		NT		0.0428	U
Indeno(1,2,3-cd)pyrene	5.6	NT		NT		NT		0.0428	U
Naphthalene	~	NT		NT		NT		0.0428	U
Pentachlorophenol	0.8	NT		NT		NT		0.0428	U
Phenanthrene	500	NT		NT		NT		0.0428	U
Phenol	0.33	NT		NT		NT		0.0428	U
Pyrene	500	NT		NT		NT		0.0428	U

Table 6
Analytical Results and Associated Limits for Imported Material
LIRR Cedar Manor Substation, Queens, New York

Sample ID		WC-1 g1	WC-1 g2	WC-1 g3	WC-1 Comp	
York ID	Allowable Levels for	19K0921-01	19K0921-02	19K0921-03	19K0921-04	
Sampling Date	Imported Fill or Soil	11/21/19	11/21/19	11/21/19	11/21/19	
Client Matrix	Commercial or Industiral	Soil	Soil	Soil	Soil	
Pesticides, NYSDEC Part 375 Target List (mg/kg)						
Dilution Factor					5	
4,4'-DDD	14	NT	NT	NT	0.00160	U
4,4'-DDE	17	NT	NT	NT	0.00160	U
4,4'-DDT	47	NT	NT	NT	0.00160	U
Aldrin	0.19	NT	NT	NT	0.00160	U
alpha-BHC	0.02	NT	NT	NT	0.00160	U
alpha-Chlordane	2.9	NT	NT	NT	0.00160	U
beta-BHC	0.09	NT	NT	NT	0.00160	U
delta-BHC	0.25	NT	NT	NT	0.00160	U
Dieldrin	0.1	NT	NT	NT	0.00160	U
Endosulfan I	102	NT	NT	NT	0.00160	U
Endosulfan II	102	NT	NT	NT	0.00160	U
Endosulfan sulfate	200	NT	NT	NT	0.00160	U
Endrin	0.06	NT	NT	NT	0.00160	U
gamma-BHC (Lindane)	0.1	NT	NT	NT	0.00160	U
Heptachlor	0.38	NT	NT	NT	0.00160	U
Metals, Target Analyte (mg/kg)						
Dilution Factor					1	
Aluminum	~	NT	NT	NT	1,650	
Antimony	~	NT	NT	NT	2.580	U
Arsenic	~	NT	NT	NT	1.550	U
Barium	~	NT	NT	NT	8.980	
Beryllium	47	NT	NT	NT	0.0520	U
Cadmium	~	NT	NT	NT	0.309	U
Calcium	~	NT	NT	NT	231	
Chromium	~	NT	NT	NT	3.680	
Cobalt	~	NT	NT	NT	1.850	
Copper	270	NT	NT	NT	4.230	
Iron	~	NT	NT	NT	4,670	
Lead	~	NT	NT	NT	2.900	
Magnesium	~	NT	NT	NT	591	
Manganese	~	NT	NT	NT	69.900	
Nickel	~	NT	NT	NT	6.870	
Potassium	~	NT	NT	NT	416	
Selenium	~	NT	NT	NT	2.580	U
Silver	~	NT	NT	NT	0.516	U
Sodium	~	NT	NT	NT	51.600	U
Thallium	~	NT	NT	NT	5.350	
Vanadium	~	NT	NT	NT	4.320	
Zinc	~	NT	NT	NT	6.350	
Mercury by 7473 (mg/kg)						
Dilution Factor					1	
Mercury	0.73	NT	NT	NT	0.0309	U
Chromium, Hexavalent (mg/kg)						
Dilution Factor					1	
Chromium, Hexavalent	19	NT	NT	NT	0.516	U
Cyanide, Total (mg/kg)						
Dilution Factor					1	
Cyanide, total	27	NT	NT	NT	0.516	U
Total Solids (%)						
Dilution Factor		1	1	1	1	
% Solids	~	97.400	95.300	98.400	97	
Herbicides, NYSDEC Part 375 Target List (mg/kg)						
Dilution Factor					1	
2,4,5-TP (Silvex)	3.8	NT	NT	NT	0.0205	U
Polychlorinated Biphenyls (mg/kg)						
Dilution Factor					1	
Aroclor 1016	~	NT	NT	NT	0.0167	U
Aroclor 1221	~	NT	NT	NT	0.0167	U
Aroclor 1232	~	NT	NT	NT	0.0167	U
Aroclor 1242	~	NT	NT	NT	0.0167	U
Aroclor 1248	~	NT	NT	NT	0.0167	U
Aroclor 1254	~	NT	NT	NT	0.0167	U
Aroclor 1260	~	NT	NT	NT	0.0167	U
Total PCBs	1	NT	NT	NT	0.0167	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Table 6
Analytical Results and Associated Limits for Imported Material
LIRR Cedar Manor Substation, Queens, New York

Sample ID		WC-2 g1		WC-2 g2		WC-2 g3		WC-2 Comp	
York ID	Allowable Levels for	19K0921-05		19K0921-06		19K0921-07		19K0921-08	
Sampling Date	Imported Fill or Soil	11/21/19		11/21/19		11/21/19		11/21/19	
Client Matrix	Commercial or Industiral	Soil		Soil		Soil		Soil	
Compound		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	Q
Volatile Organics, NYSDEC Part 375 List (mg/kg)									
Dilution Factor		1		1		1			
1,1,1-Trichloroethane	0.68	0.00240	U	0.00230	U	0.00230	U	NT	
1,1-Dichloroethane	0.27	0.00240	U	0.00230	U	0.00230	U	NT	
1,1-Dichloroethylene	0.33	0.00240	U	0.00230	U	0.00230	U	NT	
1,2,4-Trimethylbenzene	3.6	0.00240	U	0.00230	U	0.00230	U	NT	
1,2-Dichlorobenzene	1.1	0.00240	U	0.00230	U	0.00230	U	NT	
1,2-Dichloroethane	0.02	0.00240	U	0.00230	U	0.00230	U	NT	
1,3,5-Trimethylbenzene	8.4	0.00240	U	0.00230	U	0.00230	U	NT	
1,3-Dichlorobenzene	2.4	0.00240	U	0.00230	U	0.00230	U	NT	
1,4-Dichlorobenzene	1.8	0.00240	U	0.00230	U	0.00230	U	NT	
1,4-Dioxane	0.1	0.0470	U	0.0460	U	0.0460	U	NT	
2-Butanone	0.12	0.00240	U	0.00230	U	0.00230	U	NT	
Acetone	0.05	0.00470	U	0.00460	U	0.00460	U	NT	
Benzene	0.06	0.00240	U	0.00230	U	0.00230	U	NT	
Carbon tetrachloride	0.76	0.00240	U	0.00230	U	0.00230	U	NT	
Chlorobenzene	1.1	0.00240	U	0.00230	U	0.00230	U	NT	
Chloroform	0.37	0.00240	U	0.00230	U	0.00230	U	NT	
cis-1,2-Dichloroethylene	0.25	0.00240	U	0.00230	U	0.00230	U	NT	
Ethyl Benzene	1	0.00240	U	0.00230	U	0.00230	U	NT	
Methyl tert-butyl ether (MTBE)	0.93	0.00240	U	0.00230	U	0.00230	U	NT	
Methylene chloride	0.05	0.00470	U	0.00460	U	0.00460	U	NT	
Naphthalene	~	0.00240	U	0.00230	U	0.00230	U	NT	
n-Butylbenzene	12	0.00240	U	0.00230	U	0.00230	U	NT	
n-Propylbenzene	3.9	0.00240	U	0.00230	U	0.00230	U	NT	
o-Xylene	~	0.00240	U	0.00230	U	0.00230	U	NT	
p- & m- Xylenes	~	0.00470	U	0.00460	U	0.00460	U	NT	
sec-Butylbenzene	11	0.00240	U	0.00230	U	0.00230	U	NT	
tert-Butylbenzene	5.9	0.00240	U	0.00230	U	0.00230	U	NT	
Tetrachloroethylene	1.3	0.00240	U	0.00230	U	0.00230	U	NT	
Toluene	0.7	0.00240	U	0.00230	U	0.00230	U	NT	
trans-1,2-Dichloroethylene	0.19	0.00240	U	0.00230	U	0.00230	U	NT	
Trichloroethylene	0.47	0.00240	U	0.00230	U	0.00230	U	NT	
Vinyl Chloride	0.02	0.00240	U	0.00230	U	0.00230	U	NT	
Xylenes, Total	1.6	0.00710	U	0.00690	U	0.00700	U	NT	
Semi-Volatiles, NYSDEC Part 375 List (mg/kg)									
Dilution Factor								2	
2-Methylphenol	0.33	NT		NT		NT		0.0426	U
3- & 4-Methylphenols	~	NT		NT		NT		0.0426	U
Acenaphthene	98	NT		NT		NT		0.0426	U
Acenaphthylene	107	NT		NT		NT		0.0426	U
Anthracene	500	NT		NT		NT		0.0426	U
Benzo(a)anthracene	1	NT		NT		NT		0.0426	U
Benzo(a)pyrene	1	NT		NT		NT		0.0426	U
Benzo(b)fluoranthene	1.7	NT		NT		NT		0.0426	U
Benzo(g,h,i)perylene	500	NT		NT		NT		0.0426	U
Benzo(k)fluoranthene	1.7	NT		NT		NT		0.0426	U
Chrysene	1	NT		NT		NT		0.0426	U
Dibenzo(a,h)anthracene	0.56	NT		NT		NT		0.0426	U
Dibenzofuran	~	NT		NT		NT		0.0426	U
Fluoranthene	500	NT		NT		NT		0.0426	U
Fluorene	386	NT		NT		NT		0.0426	U
Hexachlorobenzene	~	NT		NT		NT		0.0426	U
Indeno(1,2,3-cd)pyrene	5.6	NT		NT		NT		0.0426	U
Naphthalene	~	NT		NT		NT		0.0426	U
Pentachlorophenol	0.8	NT		NT		NT		0.0426	U
Phenanthrene	500	NT		NT		NT		0.0426	U
Phenol	0.33	NT		NT		NT		0.0426	U
Pyrene	500	NT		NT		NT		0.0426	U

Table 6
Analytical Results and Associated Limits for Imported Material
LIRR Cedar Manor Substation, Queens, New York

Sample ID York ID Sampling Date Client Matrix	Allowable Levels for Imported Fill or Soil Commercial or Industiral	WC-2 g1 19K0921-05 11/21/19 Soil	WC-2 g2 19K0921-06 11/21/19 Soil	WC-2 g3 19K0921-07 11/21/19 Soil	WC-2 Comp 19K0921-08 11/21/19 Soil	
Pesticides, NYSDEC Part 375 Target List (mg/kg)						
Dilution Factor					5	
4,4'-DDD	14	NT	NT	NT	0.00164	U
4,4'-DDE	17	NT	NT	NT	0.00164	U
4,4'-DDT	47	NT	NT	NT	0.00164	U
Aldrin	0.19	NT	NT	NT	0.00164	U
alpha-BHC	0.02	NT	NT	NT	0.00164	U
alpha-Chlordane	2.9	NT	NT	NT	0.00164	U
beta-BHC	0.09	NT	NT	NT	0.00164	U
delta-BHC	0.25	NT	NT	NT	0.00164	U
Dieldrin	0.1	NT	NT	NT	0.00164	U
Endosulfan I	102	NT	NT	NT	0.00164	U
Endosulfan II	102	NT	NT	NT	0.00164	U
Endosulfan sulfate	200	NT	NT	NT	0.00164	U
Endrin	0.06	NT	NT	NT	0.00164	U
gamma-BHC (Lindane)	0.1	NT	NT	NT	0.00164	U
Heptachlor	0.38	NT	NT	NT	0.00164	U
Metals, Target Analyte (mg/kg)						
Dilution Factor					1	
Aluminum	~	NT	NT	NT	1,420	
Antimony	~	NT	NT	NT	2.560	U
Arsenic	~	NT	NT	NT	1.530	U
Barium	~	NT	NT	NT	9.320	
Beryllium	47	NT	NT	NT	0.0510	U
Cadmium	~	NT	NT	NT	0.307	U
Calcium	~	NT	NT	NT	165	
Chromium	~	NT	NT	NT	4.090	
Cobalt	~	NT	NT	NT	2.400	
Copper	270	NT	NT	NT	4.300	
Iron	~	NT	NT	NT	4,610	
Lead	~	NT	NT	NT	4.070	
Magnesium	~	NT	NT	NT	530	
Manganese	~	NT	NT	NT	163	
Nickel	~	NT	NT	NT	9.600	
Potassium	~	NT	NT	NT	207	
Selenium	~	NT	NT	NT	2.560	U
Silver	~	NT	NT	NT	0.512	U
Sodium	~	NT	NT	NT	51.200	U
Thallium	~	NT	NT	NT	6.150	
Vanadium	~	NT	NT	NT	4.380	
Zinc	~	NT	NT	NT	6.180	
Mercury by 7473 (mg/kg)						
Dilution Factor					1	
Mercury	0.73	NT	NT	NT	0.0307	U
Chromium, Hexavalent (mg/kg)						
Dilution Factor					1	
Chromium, Hexavalent	19	NT	NT	NT	0.512	U
Cyanide, Total (mg/kg)						
Dilution Factor					1	
Cyanide, total	27	NT	NT	NT	0.512	U
Total Solids (%)						
Dilution Factor		1	1	1	1	
% Solids	~	98.300	97.800	97.400	97.700	
Herbicides, NYSDEC Part 375 Target List (mg/kg)						
Dilution Factor					1	
2,4,5-TP (Silvex)	3.8	NT	NT	NT	0.0204	U
Polychlorinated Biphenyls (mg/kg)						
Dilution Factor					1	
Aroclor 1016	~	NT	NT	NT	0.0169	U
Aroclor 1221	~	NT	NT	NT	0.0169	U
Aroclor 1232	~	NT	NT	NT	0.0169	U
Aroclor 1242	~	NT	NT	NT	0.0169	U
Aroclor 1248	~	NT	NT	NT	0.0169	U
Aroclor 1254	~	NT	NT	NT	0.0169	U
Aroclor 1260	~	NT	NT	NT	0.0169	U
Total PCBs	1	NT	NT	NT	0.0169	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

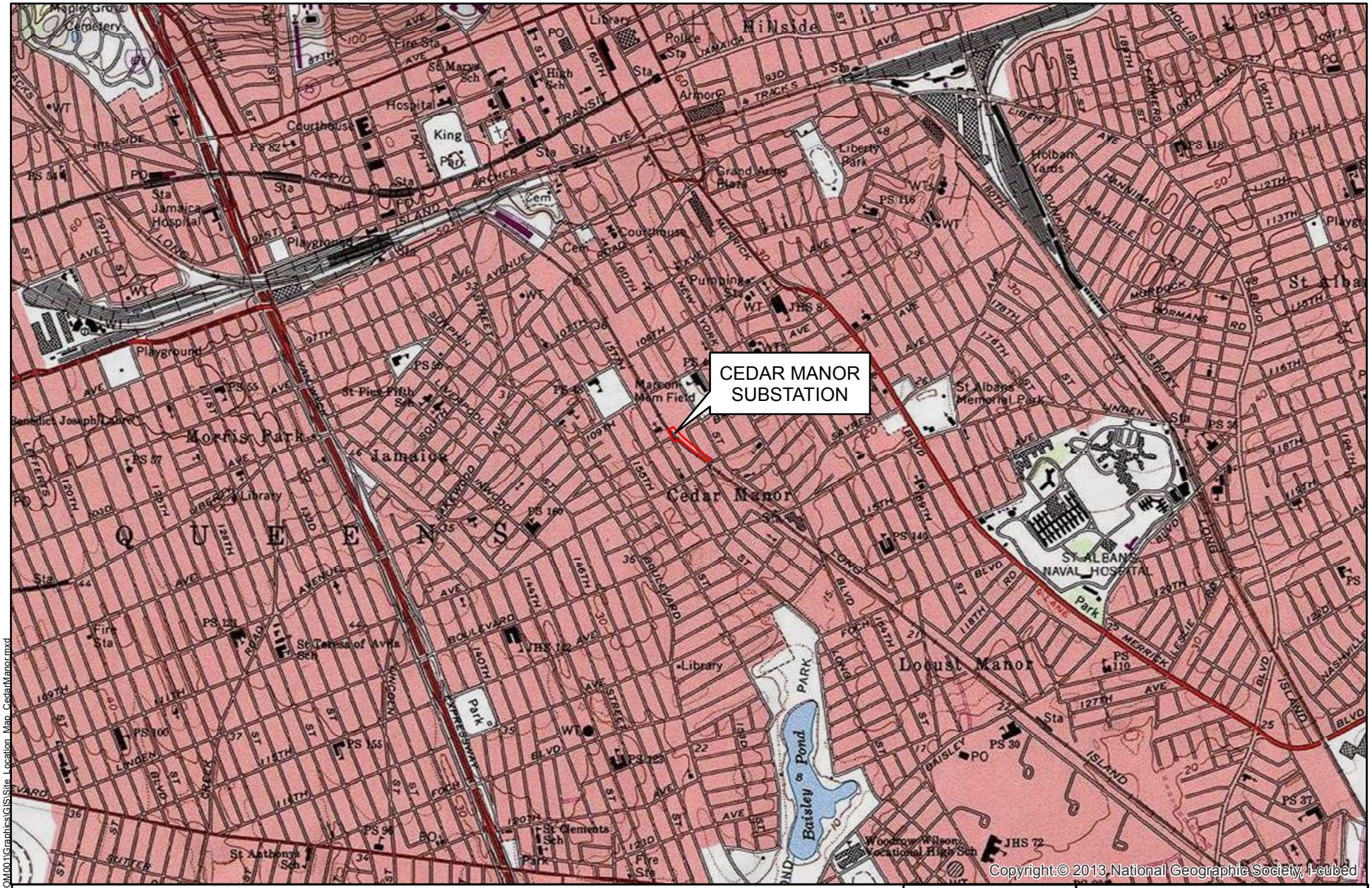
Table 7
Soils Exceeding Unrestricted SCOs After the Remedial Action
LIRR Cedar Manor Substation, Queens, New York

Location ID	Depth (ft)	Mercury (mg/kg)
CMCC-02	Concrete Core	0.44
CMCC-03	Concrete Core	1.2
CMCC-04	Concrete Core	4
CMCC-05	Concrete Core	2.7
CMEP-08	1	0.223
CMEP-12	4	2
CMSB-06	0-2	1.6
CMSB-06	4-6	2.3
CMSB-08	0-2	0.19
CMSB-09	0-2	1.9
CMSB-09	4-6	0.2
CMSB-10	0-2	3
CMSB-17	2-4	0.331
CMSB-18	2-4	1.7
CMSB-19	2-4	0.482
CMSB-20	2-4	0.386
CMSB-21	2-4	0.195
CMSB-22	2-4	4.1
CMSB-24	2-4	0.299
CMSB-25	2-4	0.727
CMSB-26	2-4	2
CMSB-27	2-4	0.259
CMSB-29	0-2	0.321
CMSB-30	2-4	0.673
CMSB-31	0-2	0.609
CMSB-31	2-4	0.332
CMSB-43	6-8	0.378
CMSB-44	6-8	0.944
CMSB-4A	14-16	0.536
CMSB-4A	18-20	0.183
CMSB-59A	6-8	0.257
CMSB-61	4-6	1.4
CMSB-61	6-8	0.332
CMSS-04	Surface	0.41
CMSS-10	Surface	0.407
CMSS-11	Surface	0.269
CMSS-20	Surface	0.252

mg/kg - milligrams per kilogram

2 - concentration exceeds the Unrestricted Use Soil Cleanup Objectives; however, this concentration does not exceed the applicable Industrial SCO of 5.7 mg/kg, as this sample location is on the LIRR property within a fenced area.

FIGURES



United States Geological Survey, Jamaica NY Topographic Quadrangle, 1967, Photorevised 1981

N
W E
S

1 inch = 2,000 feet

AECOM

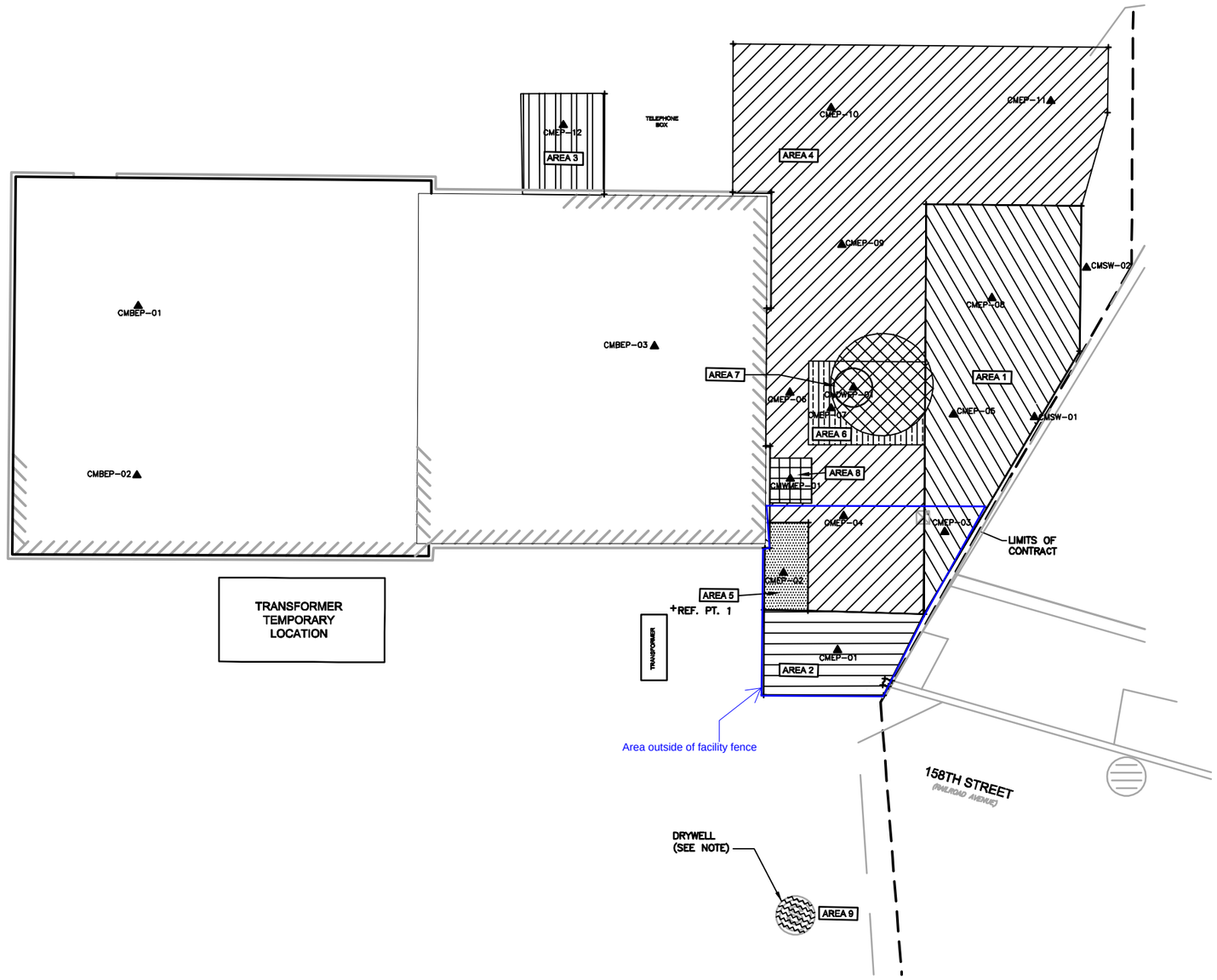
Prepared By: FIRST ENVIRONMENT

LIRR CEDAR MANOR SUBSTATION
QUEENS, NEW YORK

FIGURE 1
SITE LOCATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	AAA	TCB	6/23/2021

G:\DATA\Project\AECOM - AECOM001\Graphics\GIS\Site_Location_Map_CedarManor.mxd



LEGEND

CMEP-11 ENDPOINT SAMPLE LOCATION

AREA 1

AREA 2

AREA 3

AREA 4

AREA 5

AREA 6

AREA 7

AREA 8

AREA 9

SCALE

0 10 20

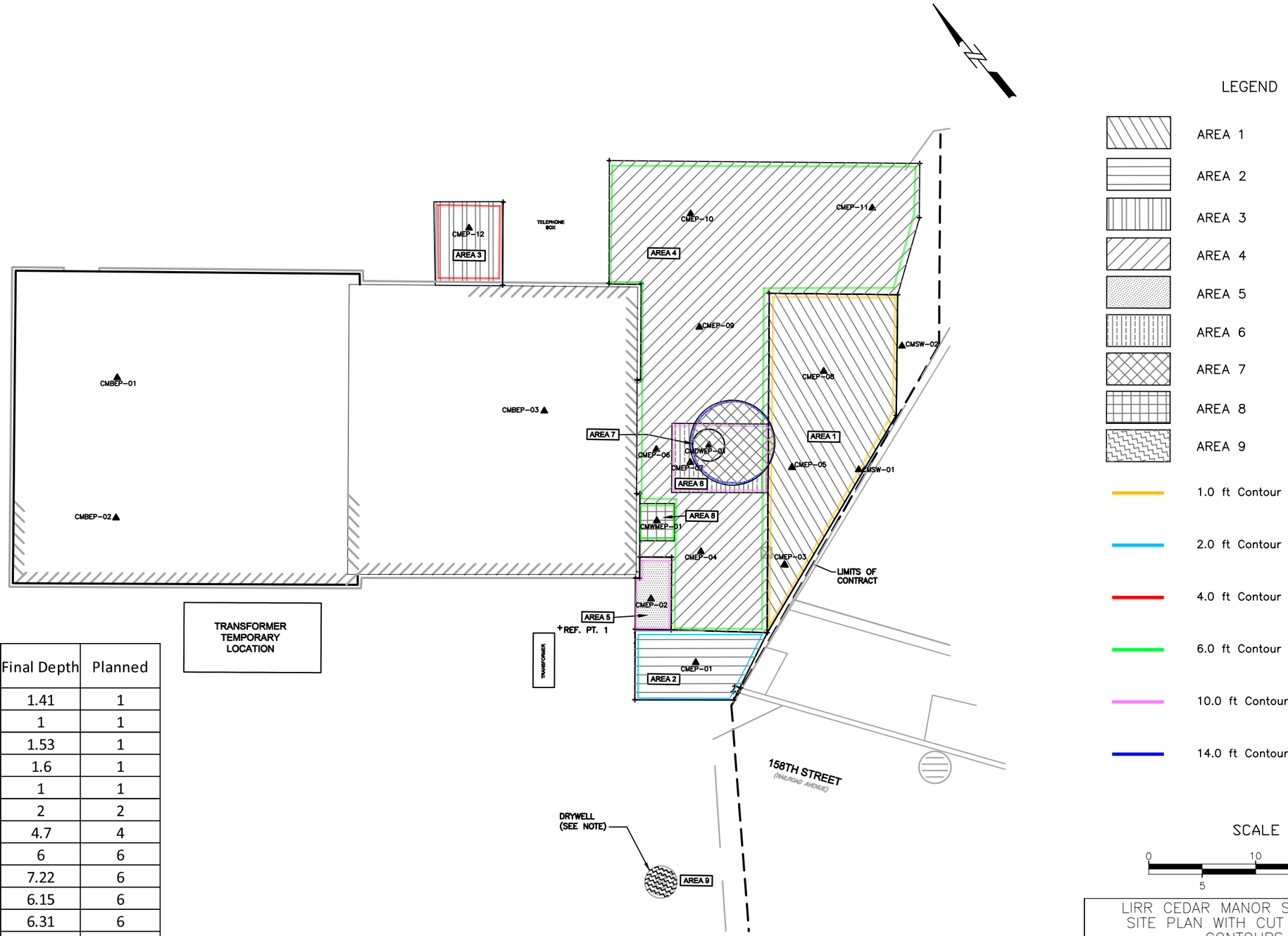
5

(FEET)

LIRR CEDAR MANOR SUBSTATION SITE PLAN WITH REMEDIATION AREAS AND SAMPLE LOCATIONS

FIGURE 2	REVISED:	DRAWN: AAA	CHECKED: CH
		SCALE: AS SHOWN	
	DATE:	DATE: 10/01/2021	DATE: 10/01/2021

CLIFTON AECOM NEW JERSEY



LEGEND

- AREA 1
- AREA 2
- AREA 3
- AREA 4
- AREA 5
- AREA 6
- AREA 7
- AREA 8
- AREA 9
- 1.0 ft Contour
- 2.0 ft Contour
- 4.0 ft Contour
- 6.0 ft Contour
- 10.0 ft Contour
- 14.0 ft Contour

SCALE

0 10 20
5

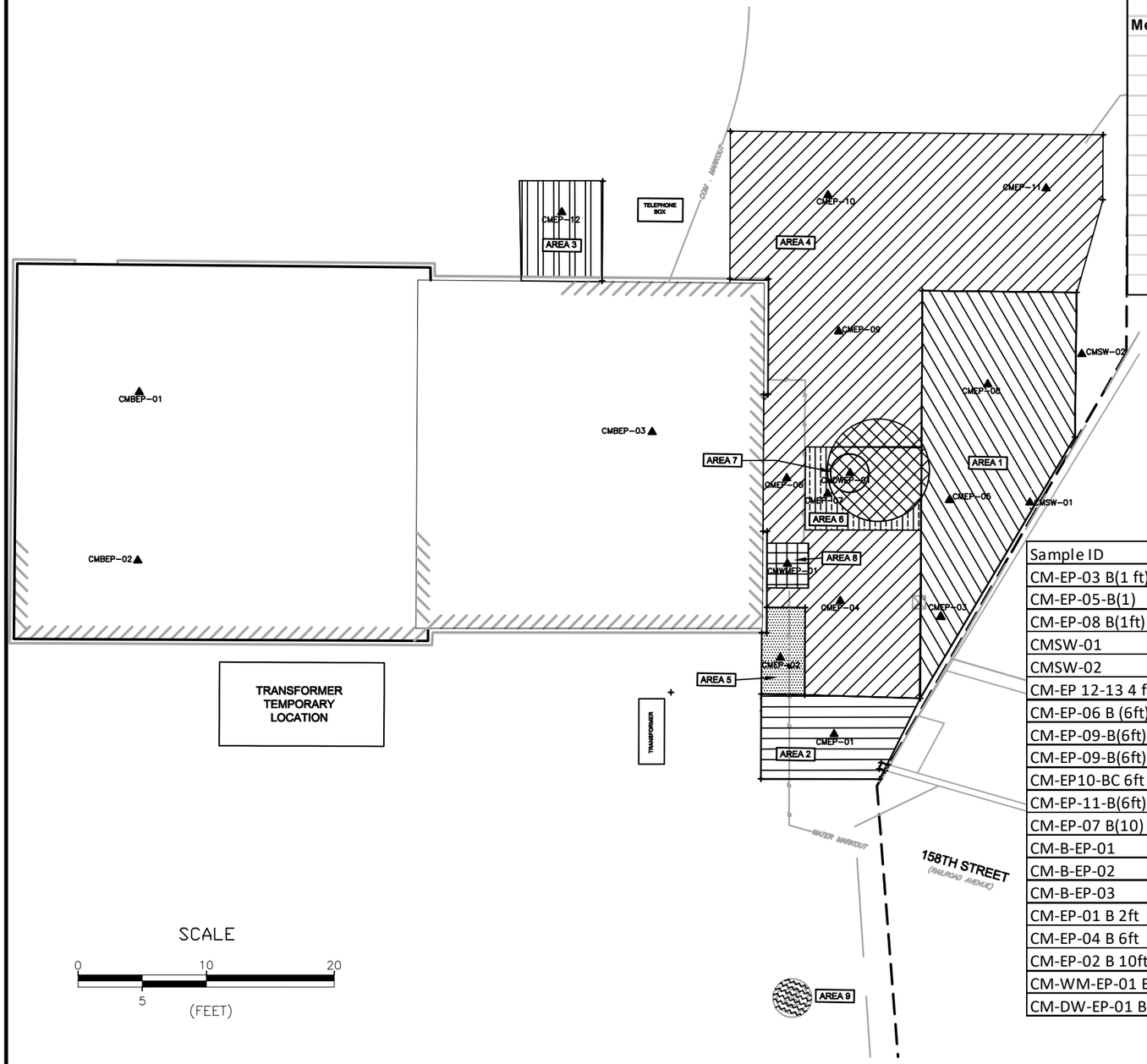
Endpoint	Area	Endpoint Elevation	Surface Elevation	Final Depth	Planned
CMEP-03	Area 1	33.99	35.4	1.41	1
CMEP-05	Area 1	NA	NA	1	1
CMEP-08	Area 1	31.97	33.5	1.53	1
CMSW-01	Area 1	34.2	35.8	1.6	1
CMSW-02	Area 1	34.89	NA	1	1
CMEP-01	Area 2	33.09	35.09	2	2
CMEP-12	Area 3	28.6	33.3	4.7	4
CMEP-04	Area 4	28.41	34.41	6	6
CMEP-06	Area 4	26.38	33.6	7.22	6
CMEP-09	Area 4	27.45	33.6	6.15	6
CMEP-10	Area 4	27.29	33.6	6.31	6
CMEP-11	Area 4	27.74	33.8	6.06	6
CMEP-02	Area 5	21.91	33.7	11.79	10
CMEP-07	Area 6	23.52	33.7	10.18	10
CMDWEP-01	Area 7	19.57	33.57	14	14
CMWMEP-01	Area 8	27.91	34.5	6.59	6

LIRR CEDAR MANOR SUBSTATION
SITE PLAN WITH CUT AND FILL CONTOURS

FIGURE 3

REVISED:	DRAWN: AAA	CHECKED: CH
	SCALE: AS SHOWN	
DATE:	DATE: 12/22/2021	DATE: 12/22/2021

CLIFTON AECOM NEW JERSEY



SCALE

0 10 20

5

(FEET)

Sample ID	Protection of Groundwater SCO	CM-DW-EP-01-B(14)
Location ID		CMDWEP-01
Area		Area 7
Volatile Organics (µg/kg)		
Bromomethane	NL	4.8J
tert-Butyl alcohol (TBA)	NL	14
Semi-Volatile (µg/kg)		ND
Polychlorinated Biphenyls		ND
Total Petroleum Hydrocarbons-DRO		ND
TPH-DRO	NL	ND
Metals, Target Analyte (mg/kg)		
Barium	820	20.7
Calcium	NL	555 B
Chromium	19	8.12
Cobalt	NL	3.18
Copper	1720	5.82
Iron	NL	12100
Lead	450	1.63
Magnesium	NL	979
Manganese	2000	217
Nickel	130	7.18
Potassium	NL	400
Vanadium	NL	11.7
Zinc	2480	12.8

Sample ID	Location ID	Area	Applicable SCO	Mercury (mg/kg)
CM-EP-03 B(1 ft)	CMEP-03	Area 1	5.7	ND
CM-EP-05-B(1)	CMEP-05	Area 1	5.7	ND
CM-EP-08 B(1ft)	CMEP-08	Area 1	5.7	0.223
CMSW-01	CMSW-01	Area 1	5.7	ND
CMSW-02	CMSW-02	Area 1	5.7	ND
CM-EP 12-13 4 ft	CMEP-12	Area 3	5.7	2
CM-EP-06 B (6ft)	CMEP-06	Area 4	5.7	ND
CM-EP-09-B(6ft)	CMEP-09	Area 4	5.7	ND
CM-EP-09-B(6ft) Dup	CMEP-09	Area 4	5.7	ND
CM-EP10-BC 6ft	CMEP-10	Area 4	5.7	ND
CM-EP-11-B(6ft)	CMEP-11	Area 4	5.7	ND
CM-EP-07 B(10)	CMEP-07	Area 6	5.7	ND
CM-B-EP-01	CMBEP-01	Sub-Slab	5.7	ND
CM-B-EP-02	CMBEP-02	Sub-Slab	5.7	ND
CM-B-EP-03	CMBEP-03	Sub-Slab	5.7	ND
CM-EP-01 B 2ft	CMEP-01	Area 2	0.81	ND
CM-EP-04 B 6ft	CMEP-04	Area 4	0.81	ND
CM-EP-02 B 10ft	CMEP-02	Area 5	0.81	ND
CM-WM-EP-01 B(6)	CMWMEP-01	Area 8	0.81	ND
CM-DW-EP-01 B(14)	CMDWEP-01	Area 7	0.18	ND

LEGEND

CMEP-11 ENDPOINT SAMPLE LOCATION

AREA 1

AREA 2

AREA 3

AREA 4

AREA 5

AREA 6

AREA 7

AREA 8

AREA 9

mg/kg – milligrams per kilogram

ug/kg – micrograms per kilogram

ND – Not Detected

NL – Not Listed

CS – Compound Specific

LIRR CEDAR MANOR SUBSTATION SITE PLAN WITH END POINT SAMPLE LOCATIONS AND ANALYTICAL RESULTS

FIGURE 4

REVISED:

DRAWN: AAA

CHECKED: CH

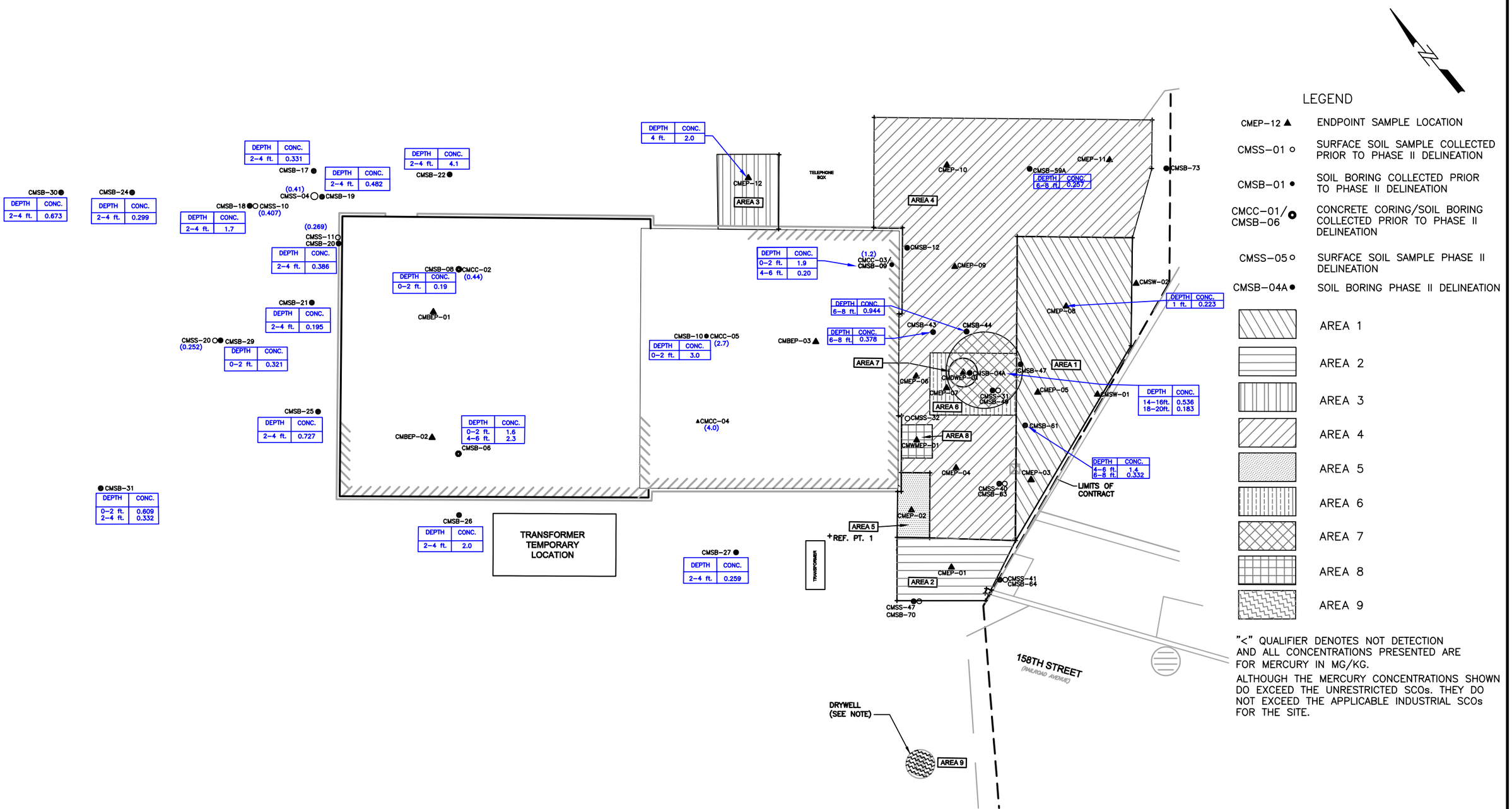
DATE:

SCALE: AS SHOWN

DATE: 10/01/2021

DATE: 10/01/2021

CLIFTON AECOM NEW JERSEY



"<" QUALIFIER DENOTES NOT DETECTION AND ALL CONCENTRATIONS PRESENTED ARE FOR MERCURY IN MG/KG.

ALTHOUGH THE MERCURY CONCENTRATIONS SHOWN DO EXCEED THE UNRESTRICTED SCOs. THEY DO NOT EXCEED THE APPLICABLE INDUSTRIAL SCOs FOR THE SITE.

SCALE

0 5 10 20

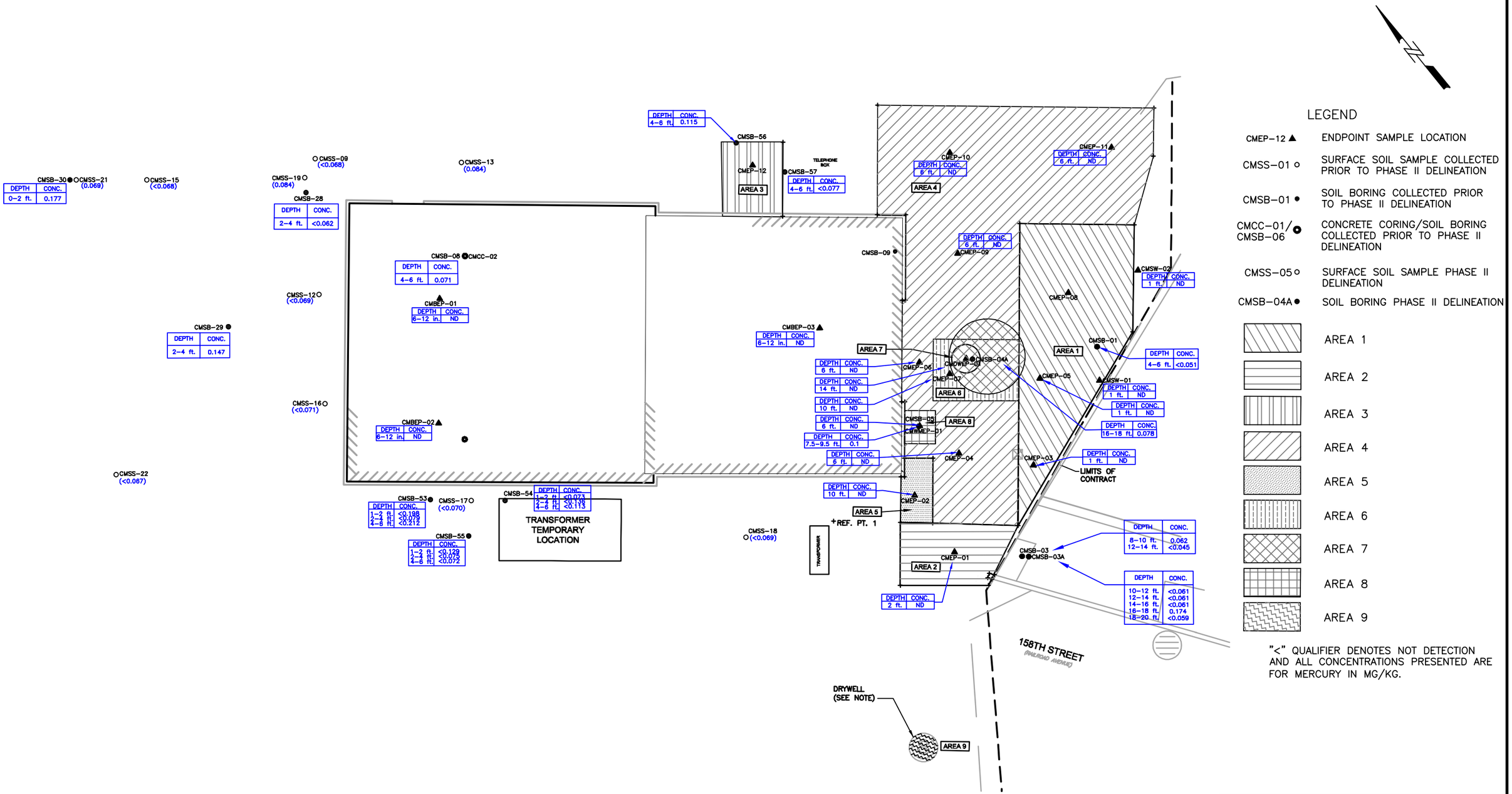
(FEET)

LIRR CEDAR MANOR SUBSTATION
SOIL RESULTS REMAINING EXCEEDING UNRESTRICTED SCOs

FIGURE 5

REVISED:	DRAWN: AAA	CHECKED: CH
	SCALE: AS SHOWN	
DATE:	DATE: 10/01/2021	DATE: 10/01/2021

CLIFTON AECOM NEW JERSEY



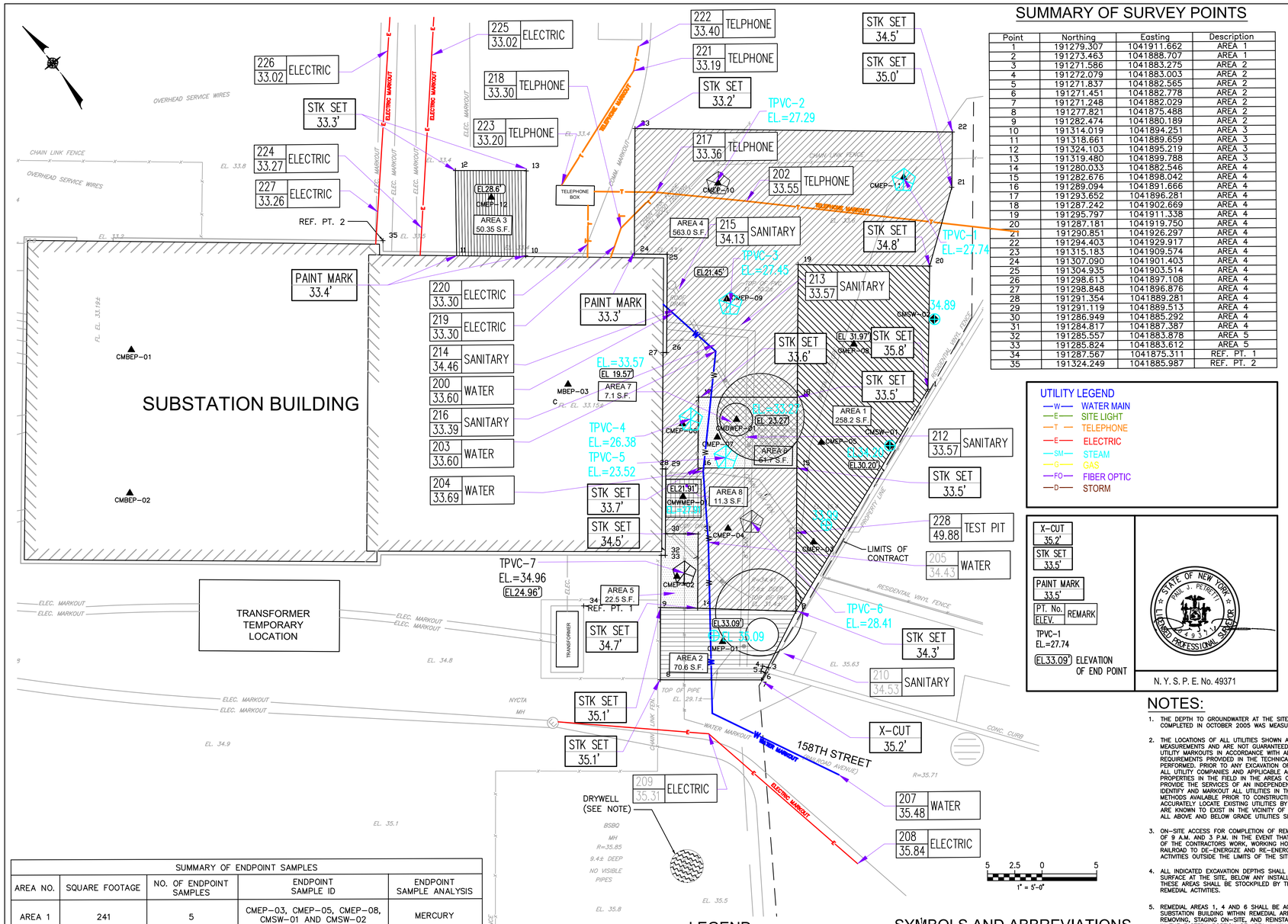
LIRR CEDAR MANOR SUBSTATION
SOIL RESULTS REMAINING COMPLIANT WITH UNRESTRICTED SCOs

FIGURE 6	REVISED:	DRAWN: AAA	CHECKED: CH
		SCALE: AS SHOWN	
	DATE:	DATE: 12/23/2021	DATE: 12/23/2021

CLIFTON AECOM NEW JERSEY

APPENDIX A

As-built Survey



SUMMARY OF SURVEY POINTS

Point	Northing	Easting	Description
1	191279.307	1041911.662	AREA 1
2	191273.463	1041888.707	AREA 1
3	191271.586	1041883.275	AREA 2
4	191272.079	1041883.003	AREA 2
5	191271.837	1041882.565	AREA 2
6	191271.451	1041882.778	AREA 2
7	191271.248	1041882.029	AREA 2
8	191277.821	1041875.488	AREA 2
9	191282.474	1041880.189	AREA 2
10	191314.019	1041894.251	AREA 3
11	191318.661	1041889.659	AREA 3
12	191324.103	1041895.219	AREA 3
13	191319.480	1041899.788	AREA 3
14	191280.033	1041882.546	AREA 4
15	191282.676	1041898.042	AREA 4
16	191289.094	1041891.666	AREA 4
17	191293.652	1041896.281	AREA 4
18	191287.242	1041902.669	AREA 4
19	191295.797	1041911.338	AREA 4
20	191287.181	1041919.750	AREA 4
21	191290.851	1041926.297	AREA 4
22	191294.403	1041929.917	AREA 4
23	191315.183	1041909.574	AREA 4
24	191307.090	1041901.403	AREA 4
25	191304.935	1041903.514	AREA 4
26	191298.613	1041897.108	AREA 4
27	191298.848	1041896.876	AREA 4
28	191291.354	1041889.281	AREA 4
29	191291.119	1041889.513	AREA 4
30	191286.949	1041885.292	AREA 4
31	191284.817	1041887.387	AREA 4
32	191285.557	1041883.878	AREA 5
33	191285.824	1041883.612	AREA 5
34	191287.567	1041875.311	REF. PT. 1
35	191324.249	1041885.987	REF. PT. 2

UTILITY LEGEND

- W — WATER MAIN
- E — SITE LIGHT
- T — TELEPHONE
- E — ELECTRIC
- SM — STEAM
- G — GAS
- FO — FIBER OPTIC
- D — STORM

X-CUT 35.2'
STK SET 33.5'
PAINT MARK 33.5'
PT. No. / ELEV. REMARK
TPVC-1 EL=27.74
EL33.09' ELEVATION OF END POINT

STATE OF NEW YORK — PAUL J. PETRETT — LICENSED PROFESSIONAL SURVEYOR

N. Y. S. P. E. No. 49371

SCOPE OF WORK:

THIS SCOPE OF WORK IS A GENERAL OVERVIEW OF THE PHASING OF THE CONSTRUCTION. IT DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A DETAILED CONSTRUCTION SCHEDULE TO THE RAILROAD FOR APPROVAL, AS REQUIRED BY THE TECHNICAL SPECIFICATIONS. IT ALSO DOES NOT RELIEVE THE CONTRACTOR OF PERFORMING ALL THE WORK AS SHOWN ON THE PLANS AND INCLUDED IN THE TECHNICAL SPECIFICATIONS.

- CONTRACTOR SHALL ATTEND A MANDATORY PRE–BID WALK THROUGH TO VISUALLY CONFIRM THE EXISTING SITE CONDITIONS WITH REGARD TO SITE AND REMEDIAL AREA ACCESS, POTENTIAL DECONTAMINATION AND TRACKING PAD LOCATIONS, SHEETING AND SHORING REQUIREMENTS, UTILITY LOCATIONS, FENCE LOCATIONS, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, LICENSES, TRAINING ETC. AND PAY ALL ASSOCIATED FEES NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL UTILIZE THE PROVIDED SURVEY COORDINATES TO LOCATE EXCAVATION LIMITS PRIOR TO PERFORMING THE WORK. THE HORIZONTAL COORDINATE SYSTEM SHOWN ON THIS DRAWING IS ARBITRARY. TWO REFERENCE POINTS ARE SHOWN SO THE CONTRACTOR CAN ESTABLISH THE COORDINATE SYSTEM IN THE FIELD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND EQUIPMENT DECONTAMINATION AREA PRIOR TO PERFORMING ANY EXCAVATION WORK AT THE SITE, AS DIRECTED BY THE RAILROAD (SEE DETAILS ON DWG. 3). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROPER UPKEEP OF ALL ITEMS FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITY POLES, STORMWATER DRAINAGE STRUCTURES, GUY WIRES, CHAIN LINK FENCES AND UTILITIES LOCATED NEAR AND WITHIN THE LIMITS OF EXCAVATION.
- CLEAR, REMOVE AND DISPOSE OFF–SITE ALL DEBRIS, BRUSH, VEGETATION AND MISCELLANEOUS ITEMS, AS NECESSARY, WITHIN THE LIMITS OF EXCAVATION.
- EXCAVATE CONTAMINATED SOIL TO THE DEPTHS INDICATED IN THE LEGEND AND DISPOSE OFF–SITE IN ACCORDANCE WITH CONTRACTOR'S APPROVED WORK PLAN AND AS DIRECTED BY THE RAILROAD. CONTRACTOR SHALL BE PERMITTED TO TEMPORARILY STORE EXCAVATED MATERIALS ON–SITE IN A PREDETERMINED SOIL STAGING AREA, AS APPROVED BY THE RAILROAD.
- SAWCUT ASPHALT AND CONCRETE, REMOVE AND DISPOSE OFF–SITE, AS NECESSARY, WITHIN THE LIMITS OF EXCAVATIONS, AS APPROVED BY THE RAILROAD.
- ERECT TEMPORARY FENCING AROUND EXCAVATION AREAS TO PROTECT EXCAVATION AREAS THROUGHOUT THE DURATION OF THE CONSTRUCTION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL INSTALL SHEETING AND BRACING IN EXCAVATION AREAS ON OR IN CLOSE PROXIMITY TO THE SUBSTATION BUILDING IN AREAS TO BE EXCAVATED TO 4 FEET BELOW GRADE OR DEEPER AND IN ANY EXCAVATION AREA DETERMINED TO BE NECESSARY BY THE CONTRACTOR AND AS APPROVED BY THE RAILROAD.
- CONTRACTOR SHALL COLLECT ENDPOINT SAMPLES FROM THE BASE OF THE EXCAVATION AREAS, AS DIRECTED BY THE RAILROAD AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL ENDPOINT SOIL SAMPLES COLLECTED FROM THE REMEDIAL EXCAVATION AREAS SHALL BE ANALYZED FOR MERCURY BY NYSDEC ASP METHOD 7471A, WITH THE EXCEPTION OF THE ENDPOINT SAMPLE TO BE COLLECTED FROM THE DRYWELL AT AREA 7, AS DETAILED BELOW. NUMBER OF SAMPLES TO BE COLLECTED PER AREA ARE SUMMARIZED IN THE SUMMARY OF SAMPLES TABLE, AS SHOWN ON THIS DRAWING. LIRR WILL COMPARE ALL MERCURY ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 INDUSTRIAL USE SCOS FOR SAMPLES COLLECTED FROM FENCED PORTIONS OF THE SUBSTATION PROPERTY AND TO THE RESIDENTIAL SCOS FOR SAMPLES COLLECTED FROM UNFENCED PORTIONS OF THE SUBSTATION PROPERTY.
- UPON FINAL APPROVAL OF ENDPOINT SAMPLE RESULTS BY THE RAILROAD, BACKFILL EXCAVATION AREAS WITH GENERAL FILL MEETING THE REQUIREMENTS OF THE RESIDENTIAL USE SCOS, AT A MINIMUM. BACKFILL SHALL BE INSTALLED TO 6 INCHES BELOW GRADE. THE REMAINING 6 INCHES IN LIRR PROPERTY AREAS WILL BE BACKFILLED WITH BALLAST CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL REPLACE IN–KIND ALL AREAS OF CONCRETE SIDEWALKS, DRIVEWAY, DRIVEWAY APRONS, CURBS, ASPHALT ROADWAYS AND ANY FENCING DAMAGED OR REMOVED FOR OFF–SITE DISPOSAL DURING COMPLETION OF THE REMEDIAL EXCAVATIONS PER THE TECHNICAL SPECIFICATIONS.
- UPON COMPLETION OF WORK, CONTRACTOR SHALL PROVIDE DETAILED SURVEY DRAWINGS THAT CLEARLY DEFINE THE DEPTHS AND LIMITS OF EACH COMPLETED EXCAVATION AREA, ALONG WITH CORRESPONDING ENDPOINT SAMPLE LOCATIONS.
- ADDITIONAL DETAILS ARE PROVIDED BELOW BY SPECIFIC REMEDIAL AREA.

AREA 7–DRY WELL LOCATED 6 FEET SOUTH OF SUBSTATION BUILDING (APPROXIMATELY 8 FEET DEEP, 10 FEET IN DIAMETER)

CONTRACTOR SHALL NOTIFY THE RAILROAD A MINIMUM OF FIVE (5) DAYS PRIOR TO PERFORMANCE OF WORK REQUIRED IN AREA 7. CONTRACTOR SHALL USE LIMITS OF THE DRY WELL TO BE REMOVED AS AN APPROXIMATION OF THE AREA TO BE DISTURBED AS PART OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND OFF–SITE DISPOSAL OF THE DRY WELL TOP CONCRETE SUPPORT RING, ASSOCIATED DRAINAGE PIPING WITHIN THE AREA OF EXCAVATION AND ANY CONTAMINATED SOIL TO A DEPTH OF APPROXIMATELY 14–FEET BELOW GRADE OR AS DEEP AS IS SAFELY POSSIBLE, AND TO AN APPROXIMATE WIDTH OF 10 FEET IN DIAMETER, AS DIRECTED BY THE RAILROAD, AND SHEETED AND SHORED, AS NECESSARY.

- CONTRACTOR SHALL BE CAUTIONED THAT AN APPROXIMATE 8" SANITARY LINE EXTENDS THROUGH THE DRYWELL. THE CONTRACTOR SHALL EITHER PROTECT THE EXISTING PIPING BY APPROPRIATE MEANS AND METHODS OR REMOVE/REPLACE THE EXISTING PIPING AT NO ADDITIONAL COST TO THE RAILROAD.
- EXCAVATE AND REMOVE SOIL COVERING DRY WELL, AS NECESSARY, TO EXPOSE THE TOP OF THE DRY WELL. REMOVE THE DOME, TOP SLAB AND/OR "STACK" OF THE DRY WELL, INCLUDING THE MANHOLE RIM AND COVER, IF PRESENT, AND THE TOP CONCRETE SUPPORT RING.
- EXCAVATE, REMOVE AND DISPOSE OFF–SITE DRY WELL CONTENTS FROM GRADE TO APPROXIMATELY 14–FEET BELOW GRADE AND ANY SURROUNDING SOIL THAT IS VISUALLY STAINED OR EXHIBITING ELEVATED PID READINGS, AS DIRECTED BY THE RAILROAD.
- EXCAVATE REMOVE AND DISPOSE OFF–SITE DRY WELL DRAINAGE PIPE LOCATED WITHIN THE DRY WELL EXCAVATION, AND ANY SURROUNDING SOIL THAT IS VISUALLY STAINED OR EXHIBITING ELEVATED PID READINGS, AND PLUG ANY REMAINING PIPES EXTENDING TO THE DRY WELL EXCAVATION AREA WITH A CONCRETE CAP, AS DIRECTED BY THE RAILROAD.
- CONTRACTOR SHALL COLLECT ONE (1) ENDPOINT SAMPLE FROM THE BOTTOM OF THE EXCAVATION AS DIRECTED BY THE RAILROAD AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE SAMPLE SHALL BE ANALYZED FOR UIC PARAMETERS CONSISTING OF RCRA METALS BY NYSDEC ASP METHOD 6010, TOTAL PETROLEUM HYDROCARBONS BY NYSDEC ASP METHOD 418.1, TOTAL VOLATILE ORGANIC COMPOUNDS BY NYSDEC ASP METHOD 8260, TOTAL POLYCHLORINATED BIPHENYLS BY NYSDEC ASP METHOD 8082 AND TOTAL SEMIVOLATILE ORGANIC COMPOUNDS BY NYSDEC ASP METHOD 8270. LIRR WILL COMPARE ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 PROTECTION OF GROUNDWATER SCOS.
- BACKFILL EXCAVATION AREA WITH GENERAL FILL TO 6 INCHES BELOW GRADE, CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS. THE REMAINING 6 INCHES SHALL BE BACKFILLED WITH BALLAST TO GRADE.

AREA 8–WATER METER PIT

CONTRACTOR SHALL NOTIFY THE RAILROAD A MINIMUM OF FIVE (5) DAYS PRIOR TO REMEDIATION AND CLOSURE OF THE WATER METER PIT. CONTRACTOR SHALL REMOVE AND DISPOSE OFF–SITE SOIL TO A DEPTH OF 6–FEET BELOW GROUND SURFACE, OR AS DEEP AS IS SAFELY POSSIBLE, AND AS DIRECTED BY THE RAILROAD. NOTE THAT THE WATER METER PIT BOTTOM IS APPROXIMATELY 3 FEET BELOW GRADE.

- BASED ON SIZE AND UTILITY CONSTRAINTS, IT IS RECOMMENDED THAT EXCAVATION TO 6 FEET BELOW GROUND SURFACE BE COMPLETED VIA VACUUM EXTRACTION, OR SIMILAR TECHNOLOGY.
- CONTRACTOR SHALL COLLECT ONE (1) ENDPOINT SAMPLE FROM THE BOTTOM OF THE EXCAVATION AS DIRECTED BY THE RAILROAD AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE SAMPLE SHALL BE ANALYZED FOR MERCURY BY NYSDEC METHOD 7471A. THE RAILROAD WILL COMPARE THE ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 RESIDENTIAL USE SCOS.
- BACKFILL EXCAVATION AREA WITH GENERAL FILL TO 6 INCHES BELOW THE PIT BOTTOM. THE REMAINING 6 INCHES SHALL BE BACKFILLED WITH BALLAST TO GRADE, CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS.

AREA 9–STORMWATER DRY WELL LOCATED 27 FEET SOUTHWEST OF SUBSTATION BUILDING (APPROXIMATELY 8 FEET DEEP, 3 FEET IN DIAMETER)

CONTRACTOR SHALL NOTIFY THE RAILROAD A MINIMUM OF FIVE (5) DAYS PRIOR TO PERFORMANCE OF WORK REQUIRED IN THIS STORM WATER DRY WELL.

- EXCAVATE AND REMOVE SOIL COVERING STORMWATER DRY WELL, AS NECESSARY, TO EXPOSE THE TOP OF THE STORMWATER DRY WELL. THE STORMWATER DRY WELL COVER SHALL BE REMOVED AND STAGED ON–SITE FOR RE–USE AND, IF PRESENT, ITS CONTENTS SHALL THEN BE PUMPED OUT, CHARACTERIZED AND TRANSPORTED OFF–SITE FOR PROPER DISPOSAL.
- REMOVE AND DISPOSE OFF–SITE ALL SEDIMENT WITHIN THE STORMWATER DRY WELL.
- COLLECTION OF POST–REMEDIATION SOIL SAMPLES FROM THIS STORMWATER DRY WELL SHALL NOT BE REQUIRED.
- REPLACE THE STORMWATER DRY WELL COVER.

SUBSTATION BUILDING FOOTPRINT

CONTRACTOR SHALL BE RESPONSIBLE FOR SAW–CUTTING OR CORING THROUGH THE SUBSTATION BUILDING CONCRETE FLOOR SLAB TO COLLECT SOIL SAMPLES (CMBEP–01 THROUGH CMBEP–03) FROM IMMEDIATELY BENEATH THE FLOOR SLAB BOTTOM. THE SAMPLES SHALL BE ANALYZED FOR MERCURY BY NYSDEC METHOD 7471A. THE RAILROAD WILL COMPARE THE ENDPOINT SAMPLE RESULTS TO THE NYSDEC PART 375 INDUSTRIAL USE SCOS.

NOTES:

1. THE DEPTH TO GROUNDWATER AT THE SITE AT THE TIME OF THE DELINEATION PHASE II INVESTIGATION COMPLETED IN OCTOBER 2005 WAS MEASURED AT APPROXIMATELY 16 FEET BELOW GROUND SURFACE.
2. THE LOCATIONS OF ALL UTILITIES SHOWN ARE BASED ON AVAILABLE RAILROAD INFORMATION AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL OBTAIN UTILITY MARKOUTS IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS, AS WELL AS THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS, WHERE WORK UNDER THIS CONTRACT IS TO BE PERFORMED. PRIOR TO ANY EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE RAILROAD, ALL UTILITY COMPANIES AND APPLICABLE AGENCIES AND REQUEST A MARKOUT OF THEIR LINES AND PROPERTIES IN THE FIELD IN THE AREAS OF THE PROPOSED WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT UTILITY MARKOUT SERVICE SUBCONTRACTOR QUALIFIED TO IDENTIFY AND MARKOUT ALL UTILITIES IN THE VICINITY OF THE WORK USING THE APPROPRIATE EQUIPMENT AND METHODS AVAILABLE PRIOR TO CONSTRUCTION. LASTLY, PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL ACCURATELY LOCATE EXISTING UTILITIES BY HAND DIGGING METHODS WHERE EXISTING UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE VICINITY OF THE WORK AND WITHIN THE AREA OF THE PROPOSED EXCAVATION. ALL ABOVE AND BELOW GRADE UTILITIES SHALL BE PROTECTED.
3. ON–SITE ACCESS FOR COMPLETION OF REMEDIAL ACTIVITIES WILL BE PROVIDED BY LIRR DURING THE HOURS OF 9 A.M. AND 3 P.M. IN THE EVENT THAT THE SUBSTATION NEEDS TO BE DE–ENERGIZED FOR ANY PORTION OF THE CONTRACTORS WORK, WORKING HOURS WILL BE RESTRICTED TO 10 A.M. AND 2 P.M. TO ALLOW FOR RAILROAD TO DE–ENERGIZE AND RE–ENERGIZE THE SUBSTATION FACILITY FOR THAT GIVEN DAY. PREPARATION ACTIVITIES OUTSIDE THE LIMITS OF THE SITE MAY BE COMPLETED PRIOR TO THESE TIME PERIODS.
4. ALL INDICATED EXCAVATION DEPTHS SHALL BE COMPLETED BY THE CONTRACTOR FROM THE TOP OF THE SOIL SURFACE AT THE SITE, BELOW ANY INSTALLED BALLAST AND RCA MATERIAL. BALLAST AND RCA MATERIAL IN THESE AREAS SHALL BE STOCKPILED BY THE CONTRACTOR FOR REINSTALLATION FOLLOWING COMPLETION OF REMEDIAL ACTIVITIES.
5. REMEDIAL AREAS 1, 4 AND 6 SHALL BE ACCESSED THROUGH THE WESTERN FENCE TO THE SOUTH OF THE SUBSTATION BUILDING WITHIN REMEDIAL AREA 1 AND 4, WHICH THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, STAGING ON–SITE, AND REINSTALLING AS PART OF THE REMEDIAL ACTIVITIES. THE FENCE LOCATED IN THE EASTERN PORTION OF AREA 4 WILL BE REMOVED FOR OFF–SITE DISPOSAL AND REPLACED IN–KIND UPON COMPLETION OF BACKFILLING ACTIVITIES IN THIS AREA. APPROPRIATE SECURITY FENCING SHALL BE INSTALLED BY THE CONTRACTOR IN THESE AREAS WHEN NOT IN USE DURING THE REMEDIAL ACTIVITIES.
6. UTILITIES ASSOCIATED WITH THE EXISTING SUBSTATION BUILDING WILL NOT BE DISCONNECTED AND WILL BE ACTIVE DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THEIR EFFORTS WITH THE RAILROAD PRIOR TO COMMENCEMENT OF THE WORK.
7. EXCAVATIONS SHALL BE MADE TO THE HORIZONTAL AND VERTICAL LIMITS AS SHOWN HEREIN, OR AS DIRECTED BY THE RAILROAD, AND TO SUCH WIDTHS AS SHALL PROVIDE SUITABLE ROOM FOR ALL REQUIRED BRACING, SHORING AND SUPPORTING STRUCTURES. HORIZONTAL LIMITS OF THE REQUIRED EXCAVATIONS REPRESENT THE LIMITS OF THE REQUIRED EXCAVATION AT THE BOTTOM OF THE EXCAVATION AREAS.
8. THE CONTRACTOR SHALL COLLECT AND ANALYZE WASTE CHARACTERIZATION SAMPLES PRIOR TO CONDUCTING ANY EXCAVATION WORK. WASTE CHARACTERIZATION ANALYSES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROVED DISPOSAL FACILITY AND THE CONTRACTOR'S APPROVED SAMPLING PLAN. ALL SAMPLING SHALL BE CONDUCTED WITH THE RAILROAD PRESENT. EXCAVATED SOIL MAY BE STOCKPILED ON THE SUBSTATION PROPERTY, AS DIRECTED BY THE LIRR.
9. EXCAVATIONS SHALL BE OPEN EXCAVATIONS, SHEETED AND BRACED WHERE NECESSARY TO PREVENT POSSIBLE INJURY TO PERSONNEL AND STRUCTURES. THE CONTRACTOR SHALL SHEET AND BRACE EXCAVATIONS WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY. ALL SHEETING, WHALERS, SHORING AND BRACING SHALL BE DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. THE RAILROAD WILL NOT REIMBURSE THE CONTRACTOR FOR REMOVAL, HANDLING, DISPOSAL AND BACKFILL OF ANY OVER–EXCAVATED MATERIALS. IT SHOULD BE NOTED THAT AN ELEVATED TRACK BERM AND SLOPE ARE LOCATED ADJACENT TO REMEDIAL AREA 4.
10. THE CONTRACTOR SHALL IMPLEMENT AN AIR MONITORING PROGRAM (AMP) THROUGHOUT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS. THE PURPOSE OF THE AMP IS TO ENSURE THE PROPER LEVEL OF PERSONNEL PROTECTIVE EQUIPMENT IS USED, TO DOCUMENT THAT THE LEVEL OF WORKER PROTECTION IS ADEQUATE, TO ASSESS THE MIGRATION OF CONTAMINANTS TO OFF–SITE RECEPTORS AS A RESULT OF THE WORK AND TO ENSURE THAT DUST CONTROL METHODS ARE SUFFICIENT.
11. THE CONTRACTOR SHALL EXECUTE THE WORK TO PREVENT DAMAGE OR INJURY TO EXISTING SITE STRUCTURES, UTILITIES AND SITE FEATURES. ANY DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE RAILROAD.
12. THE CONTRACTOR SHALL SUBMIT A SHORING PLAN TO THE RAILROAD FOR AREAS WHERE SHORING WILL BE UTILIZED DURING REMEDIATION ACTIVITIES.
13. CONSTRUCTION AREA AND ACCESS ROADS ALONG CONSTRUCTION AREAS SHALL BE KEPT FREE OF DEBRIS WHEN CONSTRUCTION ACTIVITIES ARE NOT OCCURRING.
14. CONTRACTOR SHALL MAINTAIN ACCESS TO THE SUBSTATION BUILDING AND TRANSFORMER YARD FOR LIRR EMPLOYEES AT ALL TIMES THROUGHOUT THE DURATION OF WORK.
15. CONTRACTOR SHALL EXCAVATE THE BOTTOM–MOST 6 INCHES OF EACH EXCAVATION AREA WITH A FLAT–EDGED EXCAVATION BUCKET, IN ORDER TO ENSURE A SMOOTH SURFACE TO FACILITATE THE COLLECTION OF REPRESENTATIVE ENDPOINT SAMPLES.
16. THE CONTRACTOR SHALL SURVEY THE EXISTING SURFACES PRIOR TO EXCAVATION, FINAL SURFACES AND LIMITS OF THE EXCAVATION AREAS PRIOR TO FILLING, ENDPOINT SAMPLE LOCATIONS AND THE FINAL SURFACES OF GENERAL FILL FOR "AS–BUILT" CONDITIONS, CONFORMING TO THE REQUIREMENTS PROVIDED IN THE TECHNICAL SPECIFICATIONS.
17. CONTRACTOR SHALL MAINTAIN ADEQUATE TEMPORARY HIGH–SECURITY FENCING TO ENSURE THE SECURITY OF THE ACTIVE TRANSFORMER YARD. IN ADDITION, ALL CHAIN–LINK FENCING AND GATES TO BE TEMPORARILY REMOVED AND REINSTALLED BY THE CONTRACTOR AS REQUIRED BY THE RAILROAD, AS APPROPRIATE.
18. CONTRACTOR SHALL BE AWARE THAT CONCRETE FOOTINGS EXIST BELOW GRADE SURROUNDING THE SUBSTATION BUILDING, TYPICALLY EXTENDING APPROXIMATELY 6 TO 18 INCHES OUTWARD FROM ALL SIDES OF THE BUILDING. AS–BUILT SUBSTATION BUILDING FOOTING DETAILS ARE PROVIDED AS AN ATTACHMENT TO THE TECHNICAL SPECIFICATIONS. AS SUCH, ANY SHEETING AND SHORING PLANS FOR EXCAVATION AREAS TO BE COMPLETED ADJACENT TO THE SUBSTATION BUILDING MUST ACCOUNT FOR THESE STRUCTURES AND MUST BE SUBMITTED TO THE RAILROAD FOR REVIEW AND APPROVAL PRIOR TO THE INITIATION OF WORK. THE CONTRACTOR SHALL PROTECT THESE FOOTINGS. IN ADDITION, NOTE THAT SOILS EXISTING DIRECTLY BELOW THE FOOTINGS MAY REMAIN IN–PLACE.
19. THE CONTRACTOR IS CAUTIONED THAT AN UNKNOWN QUANTITY OF SLUDGE, LIQUID AND GASEOUS MATERIAL MAY EXIST WITHIN BELOW GRADE STRUCTURES, UIC STRUCTURES AND ANY ASSOCIATED PIPING LOCATED WITHIN THE VARIOUS EXCAVATION AREAS, WHICH MAY BE INFLUENCED BY PRECIPITATION TRENDS AT AND IMMEDIATELY PRECEDING THE INITIATION OF REMEDIAL ACTIVITIES. ALL SUCH MATERIALS, IF ANY, MUST BE PROPERLY CHARACTERIZED, PRIOR TO ITS PROPER OFF–SITE DISPOSAL. ALL COSTS ASSOCIATED WITH CHARACTERIZATION, REMOVAL, HANDLING AND OFF–SITE TRANSPORTATION AND DISPOSAL OF SUCH SHALL BE INCLUDED IN CONTRACTOR'S BID.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED ROADWAY AND SIDEWALK CLOSURE PERMITS FOR THE DURATION OF THE REMEDIAL ACTIVITIES.
21. THE EXISTING SUBSTATION BUILDING IS EQUIPPED WITH WATER SERVICE FOR USE BY THE CONTRACTOR, AS NECESSARY.
22. CONTRACTOR SHALL INSTALL SHEETING/SHORING FOR THE EXCAVATION AREA IN CLOSE PROXIMITY TO THE ELEVATED TRACK BERM TO THE EAST OF THE SUBSTATION BUILDING (REMEDIAL AREA 4) TO PROTECT THE STABILITY OF THE TRACK AND BERM IN THIS AREA.
23. CONTRACTOR SHALL MAKE PROVISIONS FOR THE PROTECTION OF THE STORM WATER CATCH BASIN LOCATED ON 158TH STREET, SOUTH OF THE SUBSTATION PROPERTY, IN ACCORDANCE WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS (SEE DETAILS ON DWG 3).
24. THE CONTRACTOR SHALL NOTE THAT AN 8" SANITARY LINE EXTENDS THROUGH THE 6 FOOT AND 10 FOOT EXCAVATION AREAS TO THE SOUTH OF THE SUBSTATION BUILDING. THE CONTRACTOR SHALL EITHER PROTECT THE EXISTING PIPING BY APPROPRIATE MEANS AND METHODS OR REMOVE/REPLACE THE EXISTING PIPING AT NO ADDITIONAL COST TO THE RAILROAD.

SUMMARY OF ENDPOINT SAMPLES

AREA NO.	SQUARE FOOTAGE	NO. OF ENDPOINT SAMPLES	ENDPOINT SAMPLE ID	ENDPOINT SAMPLE ANALYSIS
AREA 1	241	5	CMEP–03, CMEP–05, CMEP–08, CMSW–01 AND CMSW–02	MERCURY
AREA 2	70	1	CMEP–01	MERCURY
AREA 3	39	1	CMEP–12	MERCURY
AREA 4	561	5	CMEP–04, CMEP–06 AND CMEP–09 THROUGH CMEP–11	MERCURY
AREA 5	16	1	CMEP–02	MERCURY
AREA 6	50	1	CMEP–07	MERCURY
AREA 7	NA	1	CMDWEP–01	UIC PARAMETERS
AREA 8	9	1	CMWMEP–01	MERCURY
AREA 9	NA	0	NA	NA
BUILDING FOOTPRINT	NA	3	CMBEP–01 THROUGH CMBEP–03	MERCURY

MAP SOURCE: 03–08–17 SURVEY PREPARED BY MUNICIPAL LAND SURVEY P.C. AND D&B'S FIELD OBSERVATIONS

LEGEND

- AREA TO BE EXCAVATED 1–FOOT BGS (AREA 1)
- AREA TO BE EXCAVATED 2 FEET BGS (AREA 2)
- AREA TO BE EXCAVATED 4 FEET BGS (AREA 3)
- AREA TO BE EXCAVATED 6 FEET BGS (AREA 4)
- AREA TO BE EXCAVATED 10 FEET BGS (AREAS 5 AND 6)
- DRYWELL TO BE EXCAVATED TO 14 FEET BGS (AREA 7)
- WATER METER PIT TO BE EXCAVATED TO 6 FEET BGS (AREA 8)
- REMOVE ALL SEDIMENT WITHIN DRYWELL (AREA 9)

SYMBOLS AND ABBREVIATIONS

- TEST PIT
- E — ELECTRIC MANHOLE
- DRAINAGE MANHOLE
- ROOF DRAIN
- E — RISER
- UTILITY POLE
- X—X—X — CHAIN LINK FENCE
- S — BURIED SANITARY LINE
- T — BURIED TELEPHONE/COMMUNICATION LINE
- OH — OVERHEAD UTILITY
- E — BURIED ELECTRIC LINE
- W — BURIED WATER LINE
- ▲ PROPOSED ENDPOINT SAMPLE LOCATION
- ◆ PROPOSED SIDEWALL SAMPLE LOCATION

NO.	DATE	REVISION	INT.
1	04.22.21	ELEVATIONS TAKEN ON APRIL 6, 2021	PJP
2	05.25.21	AS PER AARCO	PJP

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

PROJECT ENGINEER:	DRAWN BY:
ST	KA
DESIGNED BY:	CHECKED BY:
EH	ST

METROPOLITAN TRANSPORTATION AUTHORITY
**LONG ISLAND RAIL

APPENDIX B

Digital Copy of the FER (CD)

APPENDIX C

Daily Reports Including CAMP Data Sheets and Air Monitoring Data

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~10 mph	Date:	12/14/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco staging equipment onsite and preparing site for the start of excavation. Substations onsite at 10:30 to take the substation offline for duration of project. Aarco setting up stockpile area, along the southwestern side of the substation. Stockpile area has plastic sheeting and silt fencing installed to contain all impacted soils. Aarco removing ballast from stockpile area for reuse. X-ray utility locating is onsite to make out all utilities and excavation areas.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Start excavating area #3.



X-Ray preforming utility mark out prior to excavation.



Aarco staging equipment onsite for excavation.

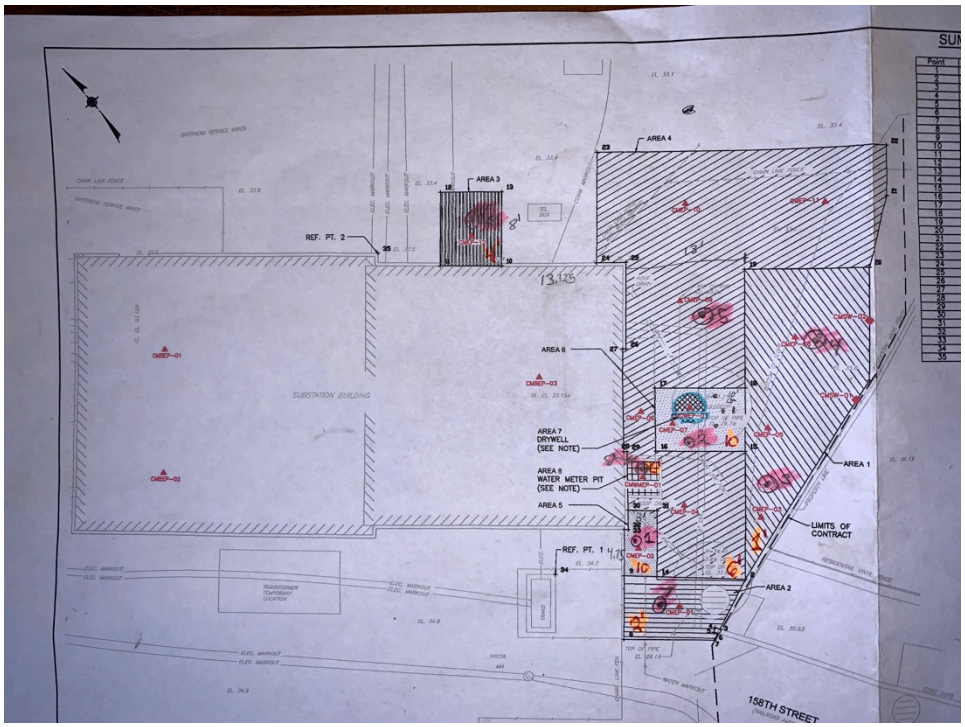


Aarco setting up soil stockpile area.



Aarco removing fencing to allow access to excavation areas.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 12 mph	Date:	12/15/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR substations onsite at 9:15. Aarco hand digging to expose utilities proximate to the excavation areas. Aarco preforming housekeeping, posting signs, securing fencing, staging equipment, replacing wind screen on excavator and installing lock on rear substation door to secure substation. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.007	0.000	0.0	0.009	0.000
Down Wind	0.0	0.009	0.000	0.1	0.017	0.002
Work Zone	0.1	0.008	0.000	0.2	0.024	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will start excavating area #3, secure site for coming snow storm.



Cleaning and disinfecting all shared tools and commonly touched surfaces.



Covid-19 Information posted in visible location onsite.

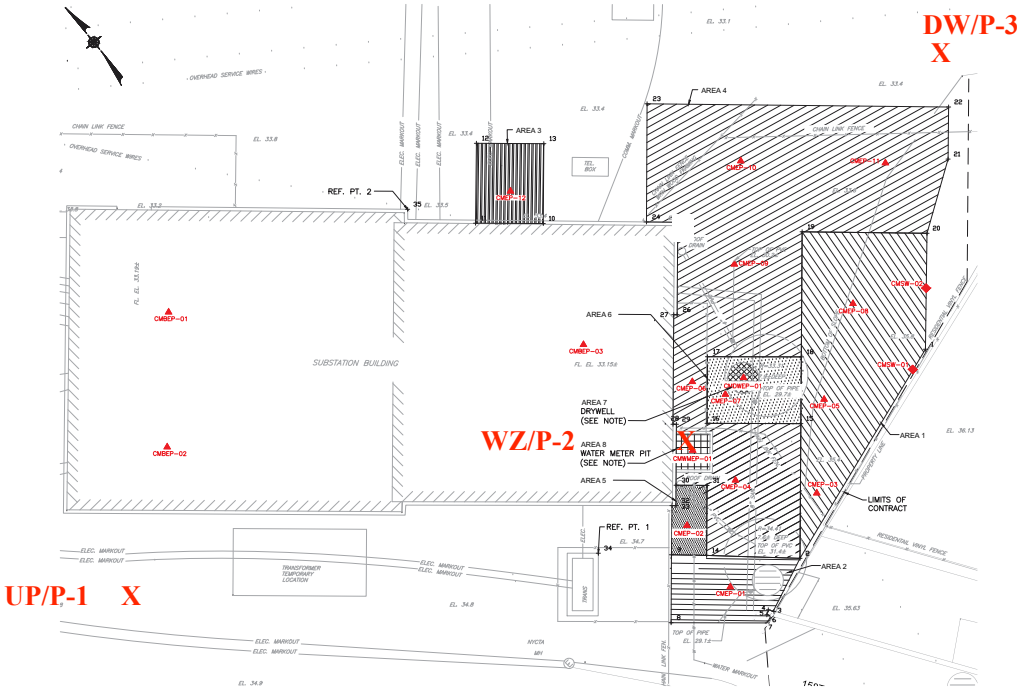


Aarco exposing utilities within exaction area.



Aarco installing lock on substation door.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:41:00 AM	0.0	0.0	0.000
9:42:00 AM	0.0	0.009	0.000
9:43:00 AM	0.0	0.008	0.000
9:44:00 AM	0.0	0.008	0.000
9:45:00 AM	0.0	0.008	0.000
9:46:00 AM	0.0	0.008	0.000
9:47:00 AM	0.0	0.009	0.000
9:48:00 AM	0.0	0.009	0.000
9:49:00 AM	0.0	0.008	0.000
9:50:00 AM	0.0	0.008	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.009	0.000
9:53:00 AM	0.0	0.009	0.000
9:54:00 AM	0.0	0.008	0.000
9:55:00 AM	0.0	0.007	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.009	0.000
10:00:00 AM	0.0	0.010	0.000
10:01:00 AM	0.0	0.010	0.000
10:02:00 AM	0.0	0.009	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.008	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.008	0.000
10:08:00 AM	0.0	0.008	0.000
10:09:00 AM	0.0	0.010	0.000
10:10:00 AM	0.0	0.008	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.007	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.007	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.007	0.000
10:32:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.006	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.0	0.006	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.008	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.006	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.006	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.006	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.014	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.006	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.006	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.008	0.000
11:09:00 AM	0.0	0.008	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.0	0.006	0.000
11:15:00 AM	0.0	0.009	0.000
11:16:00 AM	0.0	0.006	0.000
11:17:00 AM	0.0	0.006	0.000
11:18:00 AM	0.0	0.006	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.006	0.000
11:22:00 AM	0.0	0.006	0.000
11:23:00 AM	0.0	0.006	0.000
11:24:00 AM	0.0	0.006	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.006	0.000
11:29:00 AM	0.0	0.006	0.000
11:30:00 AM	0.0	0.007	0.000
11:31:00 AM	0.0	0.006	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.007	0.000
11:34:00 AM	0.0	0.007	0.000
11:35:00 AM	0.0	0.007	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.006	0.000
11:38:00 AM	0.0	0.006	0.000
11:39:00 AM	0.0	0.006	0.000
11:40:00 AM	0.0	0.006	0.000
11:41:00 AM	0.0	0.006	0.000
11:42:00 AM	0.0	0.006	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.007	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.007	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.007	0.000
11:49:00 AM	0.0	0.007	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.008	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.008	0.000
11:58:00 AM	0.0	0.009	0.000
11:59:00 AM	0.0	0.007	0.000
12:00:00 PM	0.0	0.006	0.000
12:01:00 PM	0.0	0.007	0.000
12:02:00 PM	0.0	0.008	0.000
12:03:00 PM	0.0	0.010	0.000
12:04:00 PM	0.0	0.010	0.000
12:05:00 PM	0.0	0.008	0.000
12:06:00 PM	0.0	0.007	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.008	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.007	0.000
12:12:00 PM	0.0	0.007	0.000
12:13:00 PM	0.0	0.008	0.000
12:14:00 PM	0.0	0.009	0.000
12:15:00 PM	0.0	0.008	0.000
12:16:00 PM	0.0	0.007	0.000
12:17:00 PM	0.0	0.007	0.000
12:18:00 PM	0.0	0.007	0.000
12:19:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:20:00 PM	0.0	0.007	0.000
12:21:00 PM	0.0	0.007	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.007	0.000
12:24:00 PM	0.0	0.008	0.000
12:25:00 PM	0.0	0.008	0.000
12:26:00 PM	0.0	0.008	0.000
12:27:00 PM	0.0	0.008	0.000
12:28:00 PM	0.0	0.008	0.000
12:29:00 PM	0.0	0.008	0.000
12:30:00 PM	0.0	0.008	0.000
12:31:00 PM	0.0	0.009	0.000
12:32:00 PM	0.0	0.008	0.000
12:33:00 PM	0.0	0.008	0.000
12:34:00 PM	0.0	0.008	0.000
12:35:00 PM	0.0	0.008	0.000
12:36:00 PM	0.0	0.007	0.000
12:37:00 PM	0.0	0.007	0.000
12:38:00 PM	0.0	0.007	0.000
12:39:00 PM	0.0	0.007	0.000
12:40:00 PM	0.0	0.007	0.000
12:41:00 PM	0.0	0.008	0.000
12:42:00 PM	0.0	0.007	0.000
12:43:00 PM	0.0	0.007	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.007	0.000
12:46:00 PM	0.0	0.007	0.000
12:47:00 PM	0.0	0.007	0.000
12:48:00 PM	0.0	0.010	0.000
12:49:00 PM	0.0	0.008	0.000
12:50:00 PM	0.0	0.008	0.000
12:51:00 PM	0.0	0.008	0.000
12:52:00 PM	0.0	0.009	0.000
12:53:00 PM	0.0	0.008	0.000
12:54:00 PM	0.0	0.008	0.000
12:55:00 PM	0.0	0.009	0.000
12:56:00 PM	0.0	0.008	0.000
12:57:00 PM	0.0	0.008	0.000
12:58:00 PM	0.0	0.008	0.000
12:59:00 PM	0.0	0.008	0.000
1:00:00 PM	0.0	0.008	0.000
1:01:00 PM	0.0	0.007	0.000
1:02:00 PM	0.0	0.007	0.000
1:03:00 PM	0.0	0.007	0.000
1:04:00 PM	0.0	0.007	0.000
1:05:00 PM	0.0	0.007	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.008	0.000
1:08:00 PM	0.0	0.008	0.000
1:09:00 PM	0.0	0.008	0.000
1:10:00 PM	0.0	0.007	0.000
1:11:00 PM	0.0	0.008	0.000
1:12:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:13:00 PM	0.0	0.011	0.000
1:14:00 PM	0.0	0.010	0.000
1:15:00 PM	0.0	0.008	0.000
1:16:00 PM	0.0	0.008	0.000
1:17:00 PM	0.0	0.008	0.000
1:18:00 PM	0.0	0.007	0.000
1:19:00 PM	0.0	0.008	0.000
1:20:00 PM	0.0	0.008	0.000
1:21:00 PM	0.0	0.007	0.000
1:22:00 PM	0.0	0.007	0.000
1:23:00 PM	0.0	0.007	0.000
1:24:00 PM	0.0	0.007	0.000
1:25:00 PM	0.0	0.007	0.000
1:26:00 PM	0.0	0.008	0.000
1:27:00 PM	0.0	0.008	0.000
1:28:00 PM	0.0	0.010	0.000
1:29:00 PM	0.0	0.008	0.000
1:30:00 PM	0.0	0.008	0.000
1:31:00 PM	0.0	0.009	0.000
1:32:00 PM	0.0	0.009	0.000
1:33:00 PM	0.0	0.009	0.000
1:34:00 PM	0.0	0.008	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.007	0.000
1:37:00 PM	0.0	0.007	0.000
1:38:00 PM	0.0	0.007	0.000
1:39:00 PM	0.0	0.008	0.000
1:40:00 PM	0.0	0.007	0.000
1:41:00 PM	0.0	0.007	0.000
1:42:00 PM	0.0	0.007	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.007	0.000
1:47:00 PM	0.0	0.007	0.000
1:48:00 PM	0.1	0.007	0.000
1:49:00 PM	0.0	0.007	0.000
1:50:00 PM	0.0	0.008	0.000
1:51:00 PM	0.0	0.009	0.000
1:52:00 PM	0.0	0.008	0.000
1:53:00 PM	0.0	0.008	0.000
1:54:00 PM	0.0	0.007	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.006	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.0	0.007	0.000
2:01:00 PM	0.0	0.007	0.000
2:02:00 PM	0.0	0.007	0.000
2:03:00 PM	0.0	0.007	0.000
2:04:00 PM	0.0	0.008	0.000
2:05:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:06:00 PM	0.0	0.009	0.000
2:07:00 PM	0.0	0.009	0.000
2:08:00 PM	0.0	0.008	0.000
2:09:00 PM	0.0	0.007	0.000
2:10:00 PM	0.0	0.007	0.000
2:11:00 PM	0.0	0.008	0.000
2:12:00 PM	0.0	0.012	0.000
2:13:00 PM	0.0	0.010	0.000
2:14:00 PM	0.0	0.008	0.000
2:15:00 PM	0.0	0.007	0.000
2:16:00 PM	0.0	0.007	0.000
2:17:00 PM	0.0	0.007	0.000
2:18:00 PM	0.0	0.007	0.000
2:19:00 PM	0.0	0.006	0.000
2:20:00 PM	0.0	0.007	0.000
2:21:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:57:00 AM	0.0		0.004
9:58:00 AM	0.0		0.000
9:59:00 AM	0.0	0.129	0.000
10:00:00 AM	0.0	0.115	0.000
10:01:00 AM	0.0	0.012	0.000
10:02:00 AM	0.0	0.009	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.009	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.008	0.000
10:08:00 AM	0.0	0.008	0.000
10:09:00 AM	0.0	0.010	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.012	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.1	0.007	0.000
10:21:00 AM	0.1	0.007	0.000
10:22:00 AM	0.1	0.007	0.000
10:23:00 AM	0.1	0.007	0.000
10:24:00 AM	0.1	0.007	0.000
10:25:00 AM	0.1	0.006	0.000
10:26:00 AM	0.1	0.007	0.000
10:27:00 AM	0.1	0.007	0.000
10:28:00 AM	0.1	0.007	0.000
10:29:00 AM	0.2	0.007	0.000
10:30:00 AM	0.2	0.007	0.000
10:31:00 AM	0.2	0.007	0.000
10:32:00 AM	0.2	0.006	0.000
10:33:00 AM	0.2	0.006	0.000
10:34:00 AM	0.2	0.006	0.000
10:35:00 AM	0.2	0.006	0.000
10:36:00 AM	0.2	0.006	0.000
10:37:00 AM	0.2	0.006	0.000
10:38:00 AM	0.2	0.007	0.000
10:39:00 AM	0.2	0.007	0.000
10:40:00 AM	0.2	0.007	0.000
10:41:00 AM	0.2	0.007	0.000
10:42:00 AM	0.2	0.007	0.000
10:43:00 AM	0.2	0.007	0.000
10:44:00 AM	0.2	0.007	0.000
10:45:00 AM	0.3	0.007	0.000
10:46:00 AM	0.2	0.007	0.000
10:47:00 AM	0.2	0.007	0.000
10:48:00 AM	0.3	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:49:00 AM	0.2	0.007	0.000
10:50:00 AM	0.2	0.006	0.000
10:51:00 AM	0.3	0.006	0.000
10:52:00 AM	0.3	0.006	0.000
10:53:00 AM	0.3	0.006	0.000
10:54:00 AM	0.3	0.006	0.000
10:55:00 AM	0.3	0.006	0.000
10:56:00 AM	0.3	0.006	0.000
10:57:00 AM	0.3	0.006	0.000
10:58:00 AM	0.3	0.006	0.000
10:59:00 AM	0.4	0.007	0.000
11:00:00 AM	0.3	0.007	0.000
11:01:00 AM	0.3	0.006	0.000
11:02:00 AM	0.3	0.006	0.000
11:03:00 AM	0.3	0.006	0.000
11:04:00 AM	0.3	0.006	0.000
11:05:00 AM	0.3	0.006	0.000
11:06:00 AM	0.3	0.006	0.000
11:07:00 AM	0.3	0.006	0.000
11:08:00 AM	0.3	0.007	0.000
11:09:00 AM	0.3	0.007	0.000
11:10:00 AM	0.3	0.007	0.000
11:11:00 AM	0.3	0.006	0.000
11:12:00 AM	0.3	0.007	0.000
11:13:00 AM	0.3	0.006	0.000
11:14:00 AM	0.3	0.006	0.000
11:15:00 AM	0.3	0.006	0.000
11:16:00 AM	0.3	0.006	0.000
11:17:00 AM	0.3	0.006	0.000
11:18:00 AM	0.3	0.006	0.000
11:19:00 AM	0.3	0.006	0.000
11:20:00 AM	0.3	0.006	0.000
11:21:00 AM	0.3	0.006	0.000
11:22:00 AM	0.2	0.006	0.000
11:23:00 AM	0.3	0.006	0.000
11:24:00 AM	0.2	0.006	0.000
11:25:00 AM	0.3	0.006	0.000
11:26:00 AM	0.2	0.006	0.000
11:27:00 AM	0.2	0.007	0.000
11:28:00 AM	0.2	0.007	0.000
11:29:00 AM	0.2	0.007	0.000
11:30:00 AM	0.2	0.007	0.000
11:31:00 AM	0.2	0.007	0.000
11:32:00 AM	0.2	0.007	0.000
11:33:00 AM	0.1	0.007	0.000
11:34:00 AM	0.1	0.007	0.000
11:35:00 AM	0.1	0.007	0.000
11:36:00 AM	0.1	0.007	0.000
11:37:00 AM	0.1	0.006	0.000
11:38:00 AM	0.1	0.007	0.000
11:39:00 AM	0.1	0.007	0.000
11:40:00 AM	0.1	0.006	0.000
11:41:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.007	0.000
11:47:00 AM	0.0	0.007	0.000
11:48:00 AM	0.0	0.007	0.000
11:49:00 AM	0.0	0.007	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.1	0.008	0.000
11:56:00 AM	0.1	0.008	0.000
11:57:00 AM	0.1	0.009	0.000
11:58:00 AM	0.1	0.009	0.000
11:59:00 AM	0.1	0.008	0.000
12:00:00 PM	0.1	0.007	0.000
12:01:00 PM	0.1	0.007	0.000
12:02:00 PM	0.1	0.008	0.000
12:03:00 PM	0.1	0.009	0.000
12:04:00 PM	0.1	0.010	0.000
12:05:00 PM	0.2	0.009	0.000
12:06:00 PM	0.2	0.008	0.000
12:07:00 PM	0.2	0.008	0.000
12:08:00 PM	0.2	0.007	0.000
12:09:00 PM	0.2	0.007	0.000
12:10:00 PM	0.2	0.007	0.000
12:11:00 PM	0.2	0.007	0.000
12:12:00 PM	0.2	0.007	0.000
12:13:00 PM	0.3	0.007	0.000
12:14:00 PM	0.2	0.009	0.000
12:15:00 PM	0.2	0.008	0.000
12:16:00 PM	0.2	0.007	0.000
12:17:00 PM	0.2	0.007	0.000
12:18:00 PM	0.2	0.007	0.000
12:19:00 PM	0.3	0.006	0.000
12:20:00 PM	0.3	0.007	0.000
12:21:00 PM	0.2	0.007	0.000
12:22:00 PM	0.2	0.007	0.000
12:23:00 PM	0.2	0.007	0.000
12:24:00 PM	0.2	0.007	0.000
12:25:00 PM	0.2	0.007	0.000
12:26:00 PM	0.3	0.007	0.000
12:27:00 PM	0.2	0.008	0.000
12:28:00 PM	0.2	0.007	0.000
12:29:00 PM	0.2	0.008	0.000
12:30:00 PM	0.2	0.009	0.000
12:31:00 PM	0.2	0.009	0.000
12:32:00 PM	0.2	0.007	0.000
12:33:00 PM	0.2	0.007	0.000
12:34:00 PM	0.2	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:35:00 PM	0.2	0.007	0.000
12:36:00 PM	0.2	0.007	0.000
12:37:00 PM	0.2	0.007	0.000
12:38:00 PM	0.2	0.006	0.000
12:39:00 PM	0.2	0.006	0.000
12:40:00 PM	0.2	0.007	0.000
12:41:00 PM	0.2	0.007	0.000
12:42:00 PM	0.2	0.007	0.000
12:43:00 PM	0.2	0.007	0.000
12:44:00 PM	0.2	0.008	0.000
12:45:00 PM	0.2	0.008	0.000
12:46:00 PM	0.2	0.007	0.000
12:47:00 PM	0.2	0.006	0.000
12:48:00 PM	0.2	0.007	0.000
12:49:00 PM	0.2	0.008	0.000
12:50:00 PM	0.2	0.007	0.000
12:51:00 PM	0.2	0.007	0.000
12:52:00 PM	0.2	0.007	0.000
12:53:00 PM	0.2	0.008	0.000
12:54:00 PM	0.2	0.007	0.000
12:55:00 PM	0.2	0.007	0.000
12:56:00 PM	0.2	0.007	0.000
12:57:00 PM	0.2	0.007	0.000
12:58:00 PM	0.2	0.007	0.000
12:59:00 PM	0.2	0.007	0.000
1:00:00 PM	0.2	0.007	0.000
1:01:00 PM	0.2	0.007	0.000
1:02:00 PM	0.2	0.007	0.000
1:03:00 PM	0.2	0.006	0.000
1:04:00 PM	0.2	0.007	0.000
1:05:00 PM	0.2	0.006	0.000
1:06:00 PM	0.2	0.006	0.000
1:07:00 PM	0.2	0.007	0.000
1:08:00 PM	0.2	0.007	0.000
1:09:00 PM	0.2	0.008	0.000
1:10:00 PM	0.2	0.007	0.000
1:11:00 PM	0.2	0.007	0.000
1:12:00 PM	0.2	0.007	0.000
1:13:00 PM	0.2	0.008	0.000
1:14:00 PM	0.2	0.008	0.000
1:15:00 PM	0.2	0.008	0.000
1:16:00 PM	0.2	0.007	0.000
1:17:00 PM	0.2	0.008	0.000
1:18:00 PM	0.2	0.007	0.000
1:19:00 PM	0.2	0.007	0.000
1:20:00 PM	0.2	0.007	0.000
1:21:00 PM	0.1	0.006	0.000
1:22:00 PM	0.2	0.006	0.000
1:23:00 PM	0.1	0.006	0.000
1:24:00 PM	0.1	0.006	0.000
1:25:00 PM	0.1	0.007	0.000
1:26:00 PM	0.1	0.007	0.000
1:27:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:28:00 PM	0.1	0.009	0.000
1:29:00 PM	0.1	0.008	0.000
1:30:00 PM	0.1	0.007	0.000
1:31:00 PM	0.1	0.008	0.000
1:32:00 PM	0.1	0.008	0.000
1:33:00 PM	0.0	0.008	0.000
1:34:00 PM	0.0	0.007	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.007	0.000
1:37:00 PM	0.0	0.006	0.000
1:38:00 PM	0.0	0.006	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.006	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.0	0.006	0.000
1:43:00 PM	0.0	0.006	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.006	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.006	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.007	0.000
1:51:00 PM	0.0	0.008	0.000
1:52:00 PM	0.0	0.007	0.000
1:53:00 PM	0.0	0.007	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.006	0.000
1:59:00 PM	0.0	0.006	0.000
2:00:00 PM	0.0	0.006	0.000
2:01:00 PM	0.0	0.006	0.000
2:02:00 PM	0.0	0.006	0.000
2:03:00 PM	0.0	0.007	0.000
2:04:00 PM	0.0	0.008	0.000
2:05:00 PM	0.0	0.008	0.000
2:06:00 PM	0.0	0.008	0.000
2:07:00 PM	0.0	0.008	0.000
2:08:00 PM	0.0	0.007	0.000
2:09:00 PM	0.0	0.007	0.000
2:10:00 PM	0.0	0.007	0.000
2:11:00 PM	0.0	0.007	0.000
2:12:00 PM	0.0	0.009	0.000
2:13:00 PM	0.0	0.009	0.000
2:14:00 PM	0.0	0.007	0.000
2:15:00 PM	0.0	0.006	0.000
2:16:00 PM	0.0	0.006	0.000
2:17:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:05:00 AM	0.0		0.000
10:06:00 AM	0.0	0.095	0.000
10:07:00 AM	0.0	0.013	0.000
10:08:00 AM	0.0	0.014	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.010	0.000
10:11:00 AM	0.0	0.010	0.000
10:12:00 AM	0.0	0.010	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.010	0.000
10:17:00 AM	0.0	0.010	0.000
10:18:00 AM	0.0	0.010	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.009	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.008	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.010	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.009	0.000
10:40:00 AM	0.0	0.009	0.000
10:41:00 AM	0.0	0.009	0.000
10:42:00 AM	0.0	0.009	0.000
10:43:00 AM	0.0	0.009	0.000
10:44:00 AM	0.0	0.009	0.000
10:45:00 AM	0.0	0.009	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.006	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.009	0.000
11:00:00 AM	0.0	0.010	0.000
11:01:00 AM	0.0	0.008	0.000
11:02:00 AM	0.0	0.008	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.008	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.010	0.000
11:09:00 AM	0.0	0.009	0.000
11:10:00 AM	0.0	0.008	0.000
11:11:00 AM	0.0	0.008	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.0	0.007	0.000
11:15:00 AM	0.0	0.007	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.007	0.000
11:18:00 AM	0.0	0.007	0.000
11:19:00 AM	0.0	0.007	0.000
11:20:00 AM	0.0	0.007	0.000
11:21:00 AM	0.0	0.007	0.000
11:22:00 AM	0.0	0.007	0.000
11:23:00 AM	0.0	0.007	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.010	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.008	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.009	0.000
11:35:00 AM	0.0	0.008	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.007	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.008	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.007	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.007	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.008	0.000
11:49:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.010	0.000
11:53:00 AM	0.0	0.010	0.000
11:54:00 AM	0.0	0.009	0.000
11:55:00 AM	0.0	0.009	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.009	0.000
11:58:00 AM	0.0	0.011	0.000
11:59:00 AM	0.0	0.008	0.000
12:00:00 PM	0.0	0.007	0.000
12:01:00 PM	0.0	0.008	0.000
12:02:00 PM	0.0	0.008	0.000
12:03:00 PM	0.0	0.011	0.000
12:04:00 PM	0.0	0.013	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.010	0.000
12:08:00 PM	0.0	0.008	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.009	0.000
12:11:00 PM	0.0	0.009	0.000
12:12:00 PM	0.0	0.009	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.011	0.000
12:15:00 PM	0.0	0.009	0.000
12:16:00 PM	0.0	0.008	0.000
12:17:00 PM	0.0	0.008	0.000
12:18:00 PM	0.0	0.008	0.000
12:19:00 PM	0.1	0.008	0.000
12:20:00 PM	0.0	0.008	0.000
12:21:00 PM	0.0	0.008	0.000
12:22:00 PM	0.0	0.008	0.000
12:23:00 PM	0.0	0.008	0.000
12:24:00 PM	0.0	0.008	0.000
12:25:00 PM	0.0	0.009	0.000
12:26:00 PM	0.0	0.009	0.000
12:27:00 PM	0.0	0.010	0.000
12:28:00 PM	0.1	0.009	0.000
12:29:00 PM	0.1	0.010	0.000
12:30:00 PM	0.1	0.013	0.000
12:31:00 PM	0.1	0.010	0.000
12:32:00 PM	0.1	0.009	0.000
12:33:00 PM	0.1	0.009	0.000
12:34:00 PM	0.1	0.010	0.000
12:35:00 PM	0.1	0.009	0.000
12:36:00 PM	0.0	0.008	0.000
12:37:00 PM	0.1	0.009	0.000
12:38:00 PM	0.0	0.008	0.000
12:39:00 PM	0.1	0.008	0.000
12:40:00 PM	0.1	0.008	0.000
12:41:00 PM	0.1	0.009	0.000
12:42:00 PM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:43:00 PM	0.1	0.009	0.000
12:44:00 PM	0.1	0.010	0.000
12:45:00 PM	0.1	0.009	0.000
12:46:00 PM	0.1	0.008	0.000
12:47:00 PM	0.1	0.008	0.000
12:48:00 PM	0.1	0.009	0.000
12:49:00 PM	0.1	0.010	0.000
12:50:00 PM	0.1	0.010	0.000
12:51:00 PM	0.1	0.009	0.000
12:52:00 PM	0.1	0.010	0.000
12:53:00 PM	0.1	0.010	0.000
12:54:00 PM	0.1	0.009	0.000
12:55:00 PM	0.1	0.010	0.000
12:56:00 PM	0.1	0.010	0.000
12:57:00 PM	0.1	0.009	0.000
12:58:00 PM	0.1	0.009	0.000
12:59:00 PM	0.1	0.009	0.000
1:00:00 PM	0.1	0.009	0.000
1:01:00 PM	0.1	0.009	0.000
1:02:00 PM	0.1	0.008	0.000
1:03:00 PM	0.1	0.008	0.000
1:04:00 PM	0.1	0.008	0.000
1:05:00 PM	0.1	0.009	0.000
1:06:00 PM	0.1	0.009	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.1	0.012	0.010
1:09:00 PM	0.1	0.010	0.006
1:10:00 PM	0.1	0.008	0.003
1:11:00 PM	0.1	0.009	0.002
1:12:00 PM	0.1	0.010	0.002
1:13:00 PM	0.1	0.012	0.000
1:14:00 PM	0.1	0.010	0.001
1:15:00 PM	0.1	0.010	0.008
1:16:00 PM	0.1	0.009	0.002
1:17:00 PM	0.1	0.010	0.000
1:18:00 PM	0.1	0.008	0.000
1:19:00 PM	0.1	0.010	0.000
1:20:00 PM	0.1	0.009	0.000
1:21:00 PM	0.1	0.008	0.000
1:22:00 PM	0.1	0.008	0.000
1:23:00 PM	0.1	0.008	0.000
1:24:00 PM	0.1	0.008	0.000
1:25:00 PM	0.1	0.009	0.000
1:26:00 PM	0.1	0.009	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.012	0.000
1:29:00 PM	0.1	0.010	0.000
1:30:00 PM	0.1	0.010	0.000
1:31:00 PM	0.1	0.010	0.000
1:32:00 PM	0.1	0.011	0.000
1:33:00 PM	0.1	0.010	0.000
1:34:00 PM	0.1	0.009	0.000
1:35:00 PM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 15, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:36:00 PM	0.1	0.009	0.000
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.1	0.008	0.000
1:39:00 PM	0.1	0.008	0.000
1:40:00 PM	0.1	0.009	0.000
1:41:00 PM	0.1	0.007	0.000
1:42:00 PM	0.1	0.007	0.000
1:43:00 PM	0.1	0.008	0.000
1:44:00 PM	0.1	0.008	0.000
1:45:00 PM	0.1	0.008	0.000
1:46:00 PM	0.1	0.008	0.000
1:47:00 PM	0.1	0.008	0.000
1:48:00 PM	0.1	0.008	0.000
1:49:00 PM	0.1	0.008	0.000
1:50:00 PM	0.1	0.010	0.000
1:51:00 PM	0.1	0.010	0.000
1:52:00 PM	0.1	0.009	0.000
1:53:00 PM	0.1	0.009	0.000
1:54:00 PM	0.1	0.007	0.000
1:55:00 PM	0.1	0.007	0.000
1:56:00 PM	0.1	0.007	0.000
1:57:00 PM	0.1	0.008	0.000
1:58:00 PM	0.1	0.008	0.000
1:59:00 PM	0.1	0.008	0.000
2:00:00 PM	0.1	0.008	0.000
2:01:00 PM	0.1	0.008	0.000
2:02:00 PM	0.1	0.009	0.000
2:03:00 PM	0.1	0.008	0.000
2:04:00 PM	0.1	0.012	0.000
2:05:00 PM	0.1	0.012	0.000
2:06:00 PM	0.1	0.010	0.000
2:07:00 PM	0.1	0.010	0.000
2:08:00 PM	0.1	0.009	0.000
2:09:00 PM	0.1	0.009	0.000
2:10:00 PM	0.1	0.009	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 17 mph	Date:	12/16/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. Aarco starts to excavate area #3 utilizing the small excavator. All soils are loaded into the backhoe bucket and transported to the soil stockpiling area. Prior to placing any soils within the stockpiling area, Aarco placed plastic across the entire stockpile area and installed silt fencing. Preferred screened soils within the excavation with the mercury and voc meters, no evidence of mercury vapor or vocs above background readings 0.000 mg/m3 of mercury and 0.0 ppm of VOCs were observed. Aarco shutting down an hour early due to coming storm. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk worker samples were collected and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.008	0.000	0.0	0.009	0.000
Down Wind	0.0	0.010	0.000	0.1	0.016	0.000
Work Zone	0.0	0.009	0.000	0.2	0.023	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco backfill area #3.



View of stockpile area.



Starting excavation of area #3.

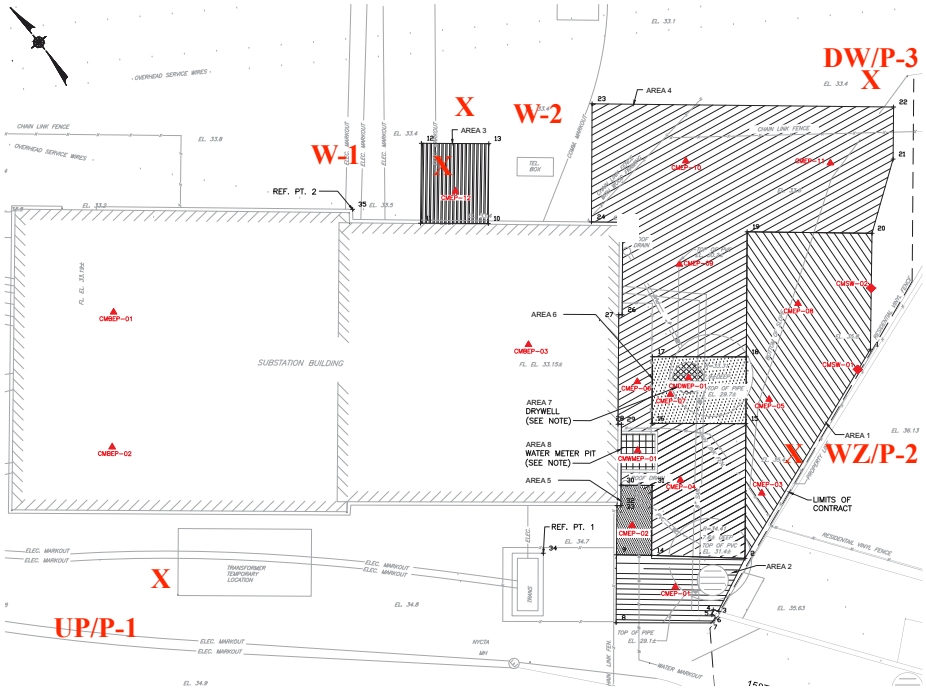


Digging box offloaded.



Preferred screening soils excavated from area #3.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:42:00 AM	0.0	0.0	0.000
9:43:00 AM	0.0	0.047	0.000
9:44:00 AM	0.0	0.013	0.000
9:45:00 AM	0.0	0.008	0.000
9:46:00 AM	0.0	0.007	0.000
9:47:00 AM	0.0	0.007	0.000
9:48:00 AM	0.0	0.008	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.008	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.008	0.000
9:54:00 AM	0.0	0.007	0.000
9:55:00 AM	0.0	0.006	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.007	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.008	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.009	0.000
10:05:00 AM	0.0	0.007	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.008	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.010	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.007	0.000
10:28:00 AM	0.0	0.007	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.007	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.006	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.0	0.006	0.000
10:38:00 AM	0.0	0.006	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.006	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.008	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.007	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.0	0.007	0.000
11:15:00 AM	0.0	0.007	0.000
11:16:00 AM	0.0	0.008	0.000
11:17:00 AM	0.0	0.007	0.000
11:18:00 AM	0.0	0.007	0.000
11:19:00 AM	0.0	0.007	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.006	0.000
11:22:00 AM	0.0	0.008	0.000
11:23:00 AM	0.0	0.008	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.007	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.007	0.000
11:34:00 AM	0.0	0.007	0.000
11:35:00 AM	0.0	0.007	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.008	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.007	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.008	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.008	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.009	0.000
11:49:00 AM	0.0	0.009	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.007	0.000
11:53:00 AM	0.0	0.007	0.000
11:54:00 AM	0.0	0.009	0.000
11:55:00 AM	0.0	0.007	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.008	0.000
11:58:00 AM	0.0	0.007	0.000
11:59:00 AM	0.0	0.006	0.000
12:00:00 PM	0.0	0.007	0.000
12:01:00 PM	0.0	0.008	0.000
12:02:00 PM	0.0	0.008	0.000
12:03:00 PM	0.0	0.008	0.000
12:04:00 PM	0.0	0.009	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.009	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.007	0.000
12:12:00 PM	0.0	0.007	0.000
12:13:00 PM	0.0	0.008	0.000
12:14:00 PM	0.0	0.007	0.000
12:15:00 PM	0.0	0.009	0.000
12:16:00 PM	0.0	0.008	0.000
12:17:00 PM	0.0	0.007	0.000
12:18:00 PM	0.0	0.007	0.000
12:19:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:20:00 PM	0.0	0.007	0.000
12:21:00 PM	0.0	0.007	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.008	0.000
12:24:00 PM	0.0	0.008	0.000
12:25:00 PM	0.0	0.009	0.000
12:26:00 PM	0.0	0.007	0.000
12:27:00 PM	0.0	0.008	0.000
12:28:00 PM	0.0	0.007	0.000
12:29:00 PM	0.0	0.008	0.000
12:30:00 PM	0.0	0.008	0.000
12:31:00 PM	0.0	0.007	0.000
12:32:00 PM	0.0	0.007	0.000
12:33:00 PM	0.0	0.007	0.000
12:34:00 PM	0.0	0.007	0.000
12:35:00 PM	0.0	0.007	0.000
12:36:00 PM	0.0	0.008	0.000
12:37:00 PM	0.0	0.008	0.000
12:38:00 PM	0.0	0.008	0.000
12:39:00 PM	0.0	0.007	0.000
12:40:00 PM	0.0	0.007	0.000
12:41:00 PM	0.0	0.008	0.000
12:42:00 PM	0.0	0.009	0.000
12:43:00 PM	0.0	0.010	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.008	0.000
12:46:00 PM	0.0	0.009	0.000
12:47:00 PM	0.0	0.008	0.000
12:48:00 PM	0.0	0.009	0.000
12:49:00 PM	0.0	0.010	0.000
12:50:00 PM	0.0	0.010	0.000
12:51:00 PM	0.0	0.007	0.000
12:52:00 PM	0.0	0.008	0.000
12:53:00 PM	0.0	0.007	0.000
12:54:00 PM	0.0	0.008	0.000
12:55:00 PM	0.0	0.009	0.000
12:56:00 PM	0.0	0.008	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.0	0.007	0.000
12:59:00 PM	0.0	0.007	0.000
1:00:00 PM	0.0	0.007	0.000
1:01:00 PM	0.0	0.007	0.000
1:02:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.008	0.000
9:54:00 AM	0.0	0.006	0.000
9:55:00 AM	0.0	0.006	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.013	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.007	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.007	0.000
10:05:00 AM	0.0	0.009	0.000
10:06:00 AM	0.0	0.014	0.000
10:07:00 AM	0.0	0.011	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.013	0.000
10:10:00 AM	0.0	0.010	0.000
10:11:00 AM	0.0	0.017	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.006	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.006	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.007	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.009	0.000
10:26:00 AM	0.0	0.013	0.000
10:27:00 AM	0.0	0.007	0.000
10:28:00 AM	0.0	0.007	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.006	0.000
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.010	0.000
10:36:00 AM	0.0	0.007	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.009	0.000
10:40:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:41:00 AM	0.0	0.010	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.006	0.000
10:46:00 AM	0.0	0.010	0.000
10:47:00 AM	0.0	0.016	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.015	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.008	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.010	0.000
11:03:00 AM	0.0	0.009	0.000
11:04:00 AM	0.0	0.010	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.008	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.009	0.000
11:10:00 AM	0.0	0.006	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.1	0.007	0.000
11:14:00 AM	0.1	0.009	0.000
11:15:00 AM	0.0	0.123	0.000
11:16:00 AM	0.0	0.034	0.000
11:17:00 AM	0.0	0.007	0.000
11:18:00 AM	0.0	0.006	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.028	0.000
11:21:00 AM	0.0	0.079	0.000
11:22:00 AM	0.0	0.010	0.000
11:23:00 AM	0.0	0.008	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.010	0.000
11:26:00 AM	0.0	0.008	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.011	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:34:00 AM	0.0	0.007	0.000
11:35:00 AM	0.0	0.010	0.000
11:36:00 AM	0.0	0.011	0.000
11:37:00 AM	0.0	0.010	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.009	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.009	0.000
11:42:00 AM	0.0	0.008	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.010	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.012	0.000
11:49:00 AM	0.0	0.008	0.000
11:50:00 AM	0.0	0.011	0.000
11:51:00 AM	0.0	0.007	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.007	0.000
11:54:00 AM	0.0	0.009	0.000
11:55:00 AM	0.0	0.009	0.000
11:56:00 AM	0.0	0.009	0.000
11:57:00 AM	0.0	0.007	0.000
11:58:00 AM	0.0	0.012	0.000
11:59:00 AM	0.0	0.009	0.000
12:00:00 PM	0.0	0.008	0.000
12:01:00 PM	0.0	0.009	0.000
12:02:00 PM	0.0	0.012	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.016	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.008	0.000
12:07:00 PM	0.0	0.011	0.000
12:08:00 PM	0.0	0.007	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.009	0.000
12:12:00 PM	0.0	0.008	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.044	0.000
12:15:00 PM	0.0	0.011	0.000
12:16:00 PM	0.0	0.008	0.000
12:17:00 PM	0.0	0.007	0.000
12:18:00 PM	0.0	0.007	0.000
12:19:00 PM	0.0	0.007	0.000
12:20:00 PM	0.0	0.007	0.000
12:21:00 PM	0.0	0.007	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.007	0.000
12:24:00 PM	0.0	0.007	0.000
12:25:00 PM	0.0	0.009	0.000
12:26:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:27:00 PM	0.0	0.007	0.000
12:28:00 PM	0.0	0.007	0.000
12:29:00 PM	0.0	0.008	0.000
12:30:00 PM	0.0	0.009	0.000
12:31:00 PM	0.0	0.007	0.000
12:32:00 PM	0.0	0.007	0.000
12:33:00 PM	0.0	0.007	0.000
12:34:00 PM	0.0	0.007	0.000
12:35:00 PM	0.0	0.007	0.000
12:36:00 PM	0.0	0.007	0.000
12:37:00 PM	0.0	0.007	0.000
12:38:00 PM	0.0	0.007	0.000
12:39:00 PM	0.0	0.007	0.000
12:40:00 PM	0.0	0.007	0.000
12:41:00 PM	0.0	0.008	0.000
12:42:00 PM	0.0	0.008	0.000
12:43:00 PM	0.0	0.008	0.000
12:44:00 PM	0.0	0.007	0.000
12:45:00 PM	0.0	0.007	0.000
12:46:00 PM	0.0	0.007	0.000
12:47:00 PM	0.0	0.007	0.000
12:48:00 PM	0.0	0.010	0.000
12:49:00 PM	0.0	0.010	0.000
12:50:00 PM	0.0	0.008	0.000
12:51:00 PM	0.0	0.007	0.000
12:52:00 PM	0.0	0.007	0.000
12:53:00 PM	0.0	0.007	0.000
12:54:00 PM	0.0	0.007	0.000
12:55:00 PM	0.0	0.008	0.000
12:56:00 PM	0.0	0.007	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.0	0.006	0.000
12:59:00 PM	0.0	0.006	0.000
1:00:00 PM	0.0	0.007	0.000
1:01:00 PM	0.0	0.007	0.000
1:02:00 PM	0.0	0.006	0.000
1:03:00 PM	0.0	0.008	0.000
1:04:00 PM	0.0	0.006	0.000
1:05:00 PM	0.0	0.006	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.009	0.000
1:08:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:54:00 AM	0.0	0.075	0.000
9:55:00 AM	0.0	0.016	0.000
9:56:00 AM	0.0	0.014	0.000
9:57:00 AM	0.0	0.013	0.000
9:58:00 AM	0.0	0.009	0.000
9:59:00 AM	0.0	0.008	0.000
10:00:00 AM	0.0	0.008	0.000
10:01:00 AM	0.0	0.008	0.000
10:02:00 AM	0.0	0.008	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.008	0.000
10:05:00 AM	0.0	0.010	0.000
10:06:00 AM	0.0	0.018	0.000
10:07:00 AM	0.0	0.014	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.008	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.008	0.000
10:16:00 AM	0.0	0.008	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.008	0.000
10:20:00 AM	0.0	0.008	0.000
10:21:00 AM	0.0	0.010	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.010	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.015	0.000
10:26:00 AM	0.0	0.021	0.000
10:27:00 AM	0.0	0.006	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.013	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.010	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.007	0.000
10:37:00 AM	0.0	0.011	0.000
10:38:00 AM	0.0	0.006	0.000
10:39:00 AM	0.0	0.010	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.009	0.000
10:45:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:46:00 AM	0.0	0.010	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.008	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.012	0.000
10:55:00 AM	0.0	0.009	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.009	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.011	0.000
11:03:00 AM	0.0	0.013	0.000
11:04:00 AM	0.0	0.008	0.000
11:05:00 AM	0.0	0.008	0.000
11:06:00 AM	0.0	0.009	0.000
11:07:00 AM	0.0	0.008	0.000
11:08:00 AM	0.0	0.008	0.000
11:09:00 AM	0.0	0.008	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.0	0.008	0.000
11:14:00 AM	0.0	0.006	0.000
11:15:00 AM	0.0	0.062	0.000
11:16:00 AM	0.0	0.062	0.000
11:17:00 AM	0.0	0.007	0.000
11:18:00 AM	0.0	0.006	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.007	0.000
11:21:00 AM	0.0	0.021	0.000
11:22:00 AM	0.0	0.010	0.000
11:23:00 AM	0.0	0.008	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.010	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.008	0.000
11:31:00 AM	0.0	0.016	0.000
11:32:00 AM	0.0	0.008	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.010	0.000
11:36:00 AM	0.0	0.012	0.000
11:37:00 AM	0.0	0.013	0.000
11:38:00 AM	0.0	0.026	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:39:00 AM	0.0	0.010	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.010	0.000
11:42:00 AM	0.0	0.008	0.000
11:43:00 AM	0.0	0.009	0.000
11:44:00 AM	0.0	0.010	0.000
11:45:00 AM	0.0	0.010	0.000
11:46:00 AM	0.0	0.013	0.000
11:47:00 AM	0.0	0.013	0.000
11:48:00 AM	0.0	0.018	0.000
11:49:00 AM	0.0	0.009	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.007	0.000
11:52:00 AM	0.0	0.015	0.000
11:53:00 AM	0.0	0.007	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.009	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.008	0.000
11:58:00 AM	0.0	0.011	0.000
11:59:00 AM	0.0	0.014	0.000
12:00:00 PM	0.0	0.008	0.000
12:01:00 PM	0.0	0.008	0.000
12:02:00 PM	0.0	0.019	0.000
12:03:00 PM	0.0	0.010	0.000
12:04:00 PM	0.0	0.023	0.000
12:05:00 PM	0.0	0.010	0.000
12:06:00 PM	0.0	0.010	0.000
12:07:00 PM	0.0	0.014	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.009	0.000
12:11:00 PM	0.0	0.011	0.000
12:12:00 PM	0.0	0.011	0.000
12:13:00 PM	0.0	0.008	0.000
12:14:00 PM	0.0	0.033	0.000
12:15:00 PM	0.0	0.012	0.000
12:16:00 PM	0.0	0.008	0.000
12:17:00 PM	0.0	0.008	0.000
12:18:00 PM	0.0	0.008	0.000
12:19:00 PM	0.0	0.008	0.000
12:20:00 PM	0.0	0.007	0.000
12:21:00 PM	0.0	0.008	0.000
12:22:00 PM	0.0	0.008	0.000
12:23:00 PM	0.0	0.008	0.000
12:24:00 PM	0.0	0.008	0.000
12:25:00 PM	0.0	0.013	0.000
12:26:00 PM	0.0	0.008	0.000
12:27:00 PM	0.0	0.008	0.000
12:28:00 PM	0.0	0.008	0.000
12:29:00 PM	0.0	0.009	0.000
12:30:00 PM	0.0	0.010	0.000
12:31:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 16, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:32:00 PM	0.0	0.008	0.000
12:33:00 PM	0.0	0.008	0.000
12:34:00 PM	0.0	0.008	0.000
12:35:00 PM	0.0	0.008	0.000
12:36:00 PM	0.0	0.008	0.000
12:37:00 PM	0.0	0.008	0.000
12:38:00 PM	0.0	0.008	0.000
12:39:00 PM	0.0	0.008	0.000
12:40:00 PM	0.0	0.008	0.000
12:41:00 PM	0.0	0.008	0.000
12:42:00 PM	0.0	0.010	0.000
12:43:00 PM	0.0	0.010	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.008	0.000
12:46:00 PM	0.0	0.008	0.000
12:47:00 PM	0.0	0.009	0.000
12:48:00 PM	0.0	0.011	0.000
12:49:00 PM	0.0	0.022	0.000
12:50:00 PM	0.0	0.009	0.000
12:51:00 PM	0.0	0.008	0.000
12:52:00 PM	0.0	0.007	0.000
12:53:00 PM	0.0	0.007	0.000
12:54:00 PM	0.0	0.008	0.000
12:55:00 PM	0.1	0.009	0.000
12:56:00 PM	0.1	0.008	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.1	0.007	0.000
12:59:00 PM	0.1	0.008	0.000
1:00:00 PM	0.1	0.008	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.1	0.007	0.000
1:03:00 PM	0.1	0.009	0.000
1:04:00 PM	0.1	0.008	0.000
1:05:00 PM	0.1	0.007	0.000
1:06:00 PM	0.1	0.008	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.1	0.011	0.000
1:09:00 PM	0.1	0.011	0.000
1:10:00 PM	0.1	0.019	0.000
1:11:00 PM	0.1	0.009	0.000
1:12:00 PM	0.1	0.008	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 12 mph	Date:	12/28/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite to take sub offline at 9:30 am. Substation is offline at 10:05. Aarco starts to backfill area #3 with sand in eight (8) inch lifts, compacting the same with a gas powered compactor. Soil Mechanics is on site to conduct compaction testing on all lifts, ensuring at least 95% compaction on all lifts. Aarco also begins constructing digging box that will be utilized to start excavation within area #4. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.013	0.000	0.0	0.018	0.000
Down Wind	0.0	0.015	0.000	0.1	0.025	0.000
Work Zone	0.2	0.015	0.000	0.5	0.032	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will start excavating area #4.



View of upwind camp monitor.



Aarco backfilling area #3.

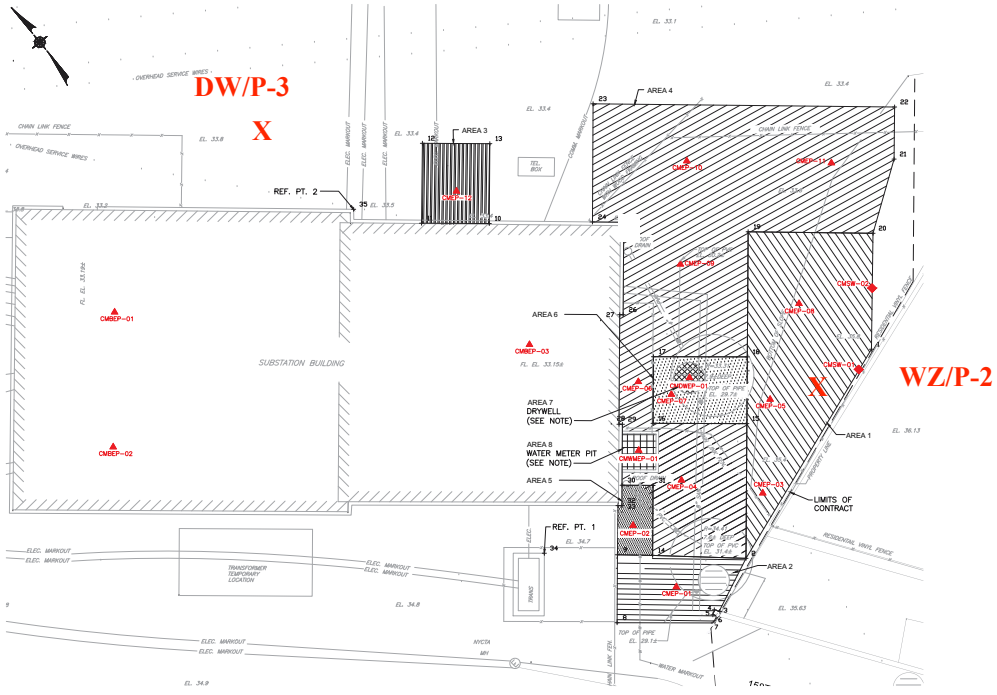


Soil Mechanics conducting compaction testing.



Aarco setting up digging box for excavation of area #4.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:38:00 AM	0.0	0.0	0.000
9:39:00 AM	0.0	0.013	0.000
9:40:00 AM	0.0	0.012	0.000
9:41:00 AM	0.0	0.012	0.000
9:42:00 AM	0.0	0.012	0.000
9:43:00 AM	0.0	0.012	0.000
9:44:00 AM	0.0	0.012	0.000
9:45:00 AM	0.0	0.012	0.000
9:46:00 AM	0.0	0.012	0.000
9:47:00 AM	0.0	0.012	0.000
9:48:00 AM	0.0	0.012	0.000
9:49:00 AM	0.0	0.012	0.000
9:50:00 AM	0.0	0.011	0.000
9:51:00 AM	0.0	0.011	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.013	0.000
9:54:00 AM	0.0	0.011	0.000
9:55:00 AM	0.0	0.011	0.000
9:56:00 AM	0.0	0.011	0.000
9:57:00 AM	0.0	0.011	0.000
9:58:00 AM	0.0	0.011	0.000
9:59:00 AM	0.0	0.011	0.000
10:00:00 AM	0.0	0.011	0.000
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.0	0.011	0.000
10:03:00 AM	0.0	0.011	0.000
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.011	0.000
10:06:00 AM	0.0	0.011	0.000
10:07:00 AM	0.0	0.011	0.000
10:08:00 AM	0.0	0.010	0.000
10:09:00 AM	0.0	0.011	0.000
10:10:00 AM	0.0	0.011	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.012	0.000
10:16:00 AM	0.0	0.011	0.000
10:17:00 AM	0.0	0.011	0.000
10:18:00 AM	0.0	0.010	0.000
10:19:00 AM	0.0	0.011	0.000
10:20:00 AM	0.0	0.011	0.000
10:21:00 AM	0.0	0.011	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.011	0.000
10:24:00 AM	0.0	0.011	0.000
10:25:00 AM	0.0	0.011	0.000
10:26:00 AM	0.0	0.011	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.0	0.011	0.000
10:29:00 AM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:30:00 AM	0.0	0.011	0.000
10:31:00 AM	0.0	0.012	0.000
10:32:00 AM	0.0	0.012	0.000
10:33:00 AM	0.0	0.011	0.000
10:34:00 AM	0.0	0.012	0.000
10:35:00 AM	0.0	0.011	0.000
10:36:00 AM	0.0	0.011	0.000
10:37:00 AM	0.0	0.011	0.000
10:38:00 AM	0.0	0.011	0.000
10:39:00 AM	0.0	0.011	0.000
10:40:00 AM	0.0	0.011	0.000
10:41:00 AM	0.0	0.011	0.000
10:42:00 AM	0.0	0.012	0.000
10:43:00 AM	0.0	0.012	0.000
10:44:00 AM	0.0	0.013	0.000
10:45:00 AM	0.0	0.012	0.000
10:46:00 AM	0.0	0.012	0.000
10:47:00 AM	0.0	0.013	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.013	0.000
10:50:00 AM	0.0	0.012	0.000
10:51:00 AM	0.0	0.012	0.000
10:52:00 AM	0.0	0.012	0.000
10:53:00 AM	0.0	0.012	0.000
10:54:00 AM	0.0	0.012	0.000
10:55:00 AM	0.0	0.012	0.000
10:56:00 AM	0.0	0.012	0.000
10:57:00 AM	0.0	0.012	0.000
10:58:00 AM	0.0	0.012	0.000
10:59:00 AM	0.0	0.012	0.000
11:00:00 AM	0.0	0.013	0.000
11:01:00 AM	0.0	0.014	0.000
11:02:00 AM	0.0	0.013	0.000
11:03:00 AM	0.0	0.012	0.000
11:04:00 AM	0.0	0.012	0.000
11:05:00 AM	0.0	0.012	0.000
11:06:00 AM	0.0	0.012	0.000
11:07:00 AM	0.0	0.013	0.000
11:08:00 AM	0.0	0.013	0.000
11:09:00 AM	0.0	0.013	0.000
11:10:00 AM	0.0	0.013	0.000
11:11:00 AM	0.0	0.012	0.000
11:12:00 AM	0.0	0.013	0.000
11:13:00 AM	0.0	0.013	0.000
11:14:00 AM	0.0	0.019	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.012	0.000
11:17:00 AM	0.0	0.013	0.000
11:18:00 AM	0.0	0.013	0.000
11:19:00 AM	0.0	0.013	0.000
11:20:00 AM	0.0	0.013	0.000
11:21:00 AM	0.0	0.014	0.000
11:22:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:23:00 AM	0.0	0.013	0.000
11:24:00 AM	0.0	0.013	0.000
11:25:00 AM	0.0	0.013	0.000
11:26:00 AM	0.0	0.013	0.000
11:27:00 AM	0.0	0.013	0.000
11:28:00 AM	0.0	0.012	0.000
11:29:00 AM	0.0	0.012	0.000
11:30:00 AM	0.0	0.012	0.000
11:31:00 AM	0.0	0.013	0.000
11:32:00 AM	0.0	0.013	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.012	0.000
11:35:00 AM	0.0	0.013	0.000
11:36:00 AM	0.0	0.013	0.000
11:37:00 AM	0.0	0.013	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.012	0.000
11:40:00 AM	0.0	0.012	0.000
11:41:00 AM	0.0	0.012	0.000
11:42:00 AM	0.0	0.012	0.000
11:43:00 AM	0.0	0.012	0.000
11:44:00 AM	0.0	0.011	0.000
11:45:00 AM	0.0	0.011	0.000
11:46:00 AM	0.0	0.011	0.000
11:47:00 AM	0.0	0.012	0.000
11:48:00 AM	0.0	0.012	0.000
11:49:00 AM	0.0	0.013	0.000
11:50:00 AM	0.0	0.013	0.000
11:51:00 AM	0.0	0.013	0.000
11:52:00 AM	0.0	0.013	0.000
11:53:00 AM	0.0	0.013	0.000
11:54:00 AM	0.0	0.012	0.000
11:55:00 AM	0.0	0.013	0.000
11:56:00 AM	0.0	0.012	0.000
11:57:00 AM	0.0	0.013	0.000
11:58:00 AM	0.0	0.013	0.000
11:59:00 AM	0.0	0.012	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.0	0.012	0.000
12:02:00 PM	0.0	0.012	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.016	0.000
12:05:00 PM	0.0	0.012	0.000
12:06:00 PM	0.0	0.012	0.000
12:07:00 PM	0.0	0.012	0.000
12:08:00 PM	0.0	0.012	0.000
12:09:00 PM	0.0	0.012	0.000
12:10:00 PM	0.0	0.012	0.000
12:11:00 PM	0.0	0.013	0.000
12:12:00 PM	0.0	0.014	0.000
12:13:00 PM	0.0	0.014	0.000
12:14:00 PM	0.0	0.013	0.000
12:15:00 PM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:16:00 PM	0.0	0.014	0.000
12:17:00 PM	0.0	0.014	0.000
12:18:00 PM	0.0	0.013	0.000
12:19:00 PM	0.0	0.012	0.000
12:20:00 PM	0.0	0.012	0.000
12:21:00 PM	0.0	0.012	0.000
12:22:00 PM	0.0	0.013	0.000
12:23:00 PM	0.0	0.012	0.000
12:24:00 PM	0.0	0.012	0.000
12:25:00 PM	0.0	0.012	0.000
12:26:00 PM	0.0	0.013	0.000
12:27:00 PM	0.0	0.012	0.000
12:28:00 PM	0.0	0.012	0.000
12:29:00 PM	0.0	0.012	0.000
12:30:00 PM	0.0	0.012	0.000
12:31:00 PM	0.0	0.011	0.000
12:32:00 PM	0.0	0.011	0.000
12:33:00 PM	0.0	0.012	0.000
12:34:00 PM	0.0	0.011	0.000
12:35:00 PM	0.0	0.011	0.000
12:36:00 PM	0.0	0.011	0.000
12:37:00 PM	0.0	0.011	0.000
12:38:00 PM	0.0	0.011	0.000
12:39:00 PM	0.0	0.011	0.000
12:40:00 PM	0.0	0.011	0.000
12:41:00 PM	0.0	0.011	0.000
12:42:00 PM	0.0	0.011	0.000
12:43:00 PM	0.0	0.011	0.000
12:44:00 PM	0.0	0.012	0.000
12:45:00 PM	0.0	0.012	0.000
12:46:00 PM	0.0	0.012	0.000
12:47:00 PM	0.0	0.012	0.000
12:48:00 PM	0.0	0.011	0.000
12:49:00 PM	0.0	0.011	0.000
12:50:00 PM	0.0	0.012	0.000
12:51:00 PM	0.0	0.011	0.000
12:52:00 PM	0.0	0.011	0.000
12:53:00 PM	0.0	0.011	0.000
12:54:00 PM	0.0	0.011	0.000
12:55:00 PM	0.0	0.011	0.000
12:56:00 PM	0.0	0.011	0.000
12:57:00 PM	0.0	0.011	0.000
12:58:00 PM	0.0	0.011	0.000
12:59:00 PM	0.0	0.011	0.000
1:00:00 PM	0.0	0.011	0.000
1:01:00 PM	0.0	0.011	0.000
1:02:00 PM	0.0	0.012	0.000
1:03:00 PM	0.0	0.012	0.000
1:04:00 PM	0.0	0.012	0.000
1:05:00 PM	0.0	0.012	0.000
1:06:00 PM	0.0	0.012	0.000
1:07:00 PM	0.0	0.011	0.000
1:08:00 PM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:09:00 PM	0.0	0.012	0.000
1:10:00 PM	0.0	0.012	0.000
1:11:00 PM	0.0	0.012	0.000
1:12:00 PM	0.0	0.011	0.000
1:13:00 PM	0.0	0.011	0.000
1:14:00 PM	0.0	0.012	0.000
1:15:00 PM	0.0	0.011	0.000
1:16:00 PM	0.0	0.012	0.000
1:17:00 PM	0.0	0.011	0.000
1:18:00 PM	0.0	0.013	0.000
1:19:00 PM	0.0	0.013	0.000
1:20:00 PM	0.0	0.013	0.000
1:21:00 PM	0.0	0.013	0.000
1:22:00 PM	0.0	0.013	0.000
1:23:00 PM	0.0	0.012	0.000
1:24:00 PM	0.0	0.012	0.000
1:25:00 PM	0.0	0.012	0.000
1:26:00 PM	0.0	0.012	0.000
1:27:00 PM	0.0	0.012	0.000
1:28:00 PM	0.0	0.012	0.000
1:29:00 PM	0.0	0.012	0.000
1:30:00 PM	0.0	0.013	0.000
1:31:00 PM	0.0	0.012	0.000
1:32:00 PM	0.0	0.012	0.000
1:33:00 PM	0.0	0.012	0.000
1:34:00 PM	0.0	0.013	0.000
1:35:00 PM	0.0	0.013	0.000
1:36:00 PM	0.0	0.013	0.000
1:37:00 PM	0.0	0.012	0.000
1:38:00 PM	0.0	0.013	0.000
1:39:00 PM	0.0	0.016	0.000
1:40:00 PM	0.0	0.015	0.000
1:41:00 PM	0.0	0.015	0.000
1:42:00 PM	0.0	0.015	0.000
1:43:00 PM	0.0	0.015	0.000
1:44:00 PM	0.0	0.016	0.000
1:45:00 PM	0.0	0.018	0.000
1:46:00 PM	0.0	0.019	0.000
1:47:00 PM	0.0	0.018	0.000
1:48:00 PM	0.0	0.018	0.000
1:49:00 PM	0.0	0.019	0.000
1:50:00 PM	0.0	0.023	0.000
1:51:00 PM	0.0	0.020	0.000
1:52:00 PM	0.0	0.015	0.000
1:53:00 PM	0.0	0.017	0.000
1:54:00 PM	0.0	0.019	0.000
1:55:00 PM	0.0	0.018	0.000
1:56:00 PM	0.0	0.017	0.000
1:57:00 PM	0.0	0.018	0.000
1:58:00 PM	0.0	0.018	0.000
1:59:00 PM	0.0	0.018	0.000
2:00:00 PM	0.0	0.018	0.000
2:01:00 PM	0.0	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:02:00 PM	0.0	0.016	0.000
2:03:00 PM	0.0	0.015	0.000
2:04:00 PM	0.0	0.016	0.000
2:05:00 PM	0.0	0.017	0.000
2:06:00 PM	0.0	0.017	0.000
2:07:00 PM	0.0	0.018	0.000
2:08:00 PM	0.0	0.017	0.000
2:09:00 PM	0.1	0.017	0.000
2:10:00 PM	0.0	0.018	0.000
2:11:00 PM	0.0	0.016	0.000
2:12:00 PM	0.0	0.015	0.000
2:13:00 PM	0.0	0.013	0.000
2:14:00 PM	0.0	0.013	0.000
2:15:00 PM	0.0	0.013	0.000
2:16:00 PM	0.0	0.013	0.000
2:17:00 PM	0.0	0.013	0.000
2:18:00 PM	0.0	0.014	0.000
2:19:00 PM	0.0	0.014	0.000
2:20:00 PM	0.0	0.013	0.000
2:21:00 PM	0.0	0.013	0.000
2:22:00 PM	0.0	0.013	0.000
2:23:00 PM	0.0	0.013	0.000
2:24:00 PM	0.0	0.013	0.000
2:25:00 PM	0.0	0.013	0.000
2:26:00 PM	0.0	0.014	0.000
2:27:00 PM	0.0	0.014	0.000
2:28:00 PM	0.0	0.013	0.000
2:29:00 PM	0.0	0.013	0.000
2:30:00 PM	0.0	0.013	0.000
2:31:00 PM	0.0	0.013	0.000
2:32:00 PM	0.0	0.013	0.000
2:33:00 PM	0.0	0.013	0.000
2:34:00 PM	0.0	0.013	0.000
2:35:00 PM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:05:00 AM	0.0	0.058	0.000
10:06:00 AM	0.0	0.058	0.000
10:07:00 AM	0.0	0.058	0.000
10:08:00 AM	0.0	0.034	0.000
10:09:00 AM	0.0	0.012	0.000
10:10:00 AM	0.0	0.012	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.012	0.000
10:16:00 AM	0.0	0.012	0.000
10:17:00 AM	0.0	0.013	0.000
10:18:00 AM	0.0	0.013	0.000
10:19:00 AM	0.0	0.012	0.000
10:20:00 AM	0.0	0.012	0.000
10:21:00 AM	0.0	0.012	0.000
10:22:00 AM	0.0	0.012	0.000
10:23:00 AM	0.0	0.011	0.000
10:24:00 AM	0.0	0.012	0.000
10:25:00 AM	0.0	0.011	0.000
10:26:00 AM	0.0	0.011	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.0	0.011	0.000
10:29:00 AM	0.0	0.011	0.000
10:30:00 AM	0.0	0.012	0.000
10:31:00 AM	0.0	0.012	0.000
10:32:00 AM	0.0	0.013	0.000
10:33:00 AM	0.0	0.014	0.000
10:34:00 AM	0.0	0.013	0.000
10:35:00 AM	0.0	0.013	0.000
10:36:00 AM	0.0	0.014	0.000
10:37:00 AM	0.0	0.012	0.000
10:38:00 AM	0.0	0.012	0.000
10:39:00 AM	0.0	0.013	0.000
10:40:00 AM	0.0	0.012	0.000
10:41:00 AM	0.0	0.012	0.000
10:42:00 AM	0.0	0.011	0.000
10:43:00 AM	0.0	0.012	0.000
10:44:00 AM	0.0	0.013	0.000
10:45:00 AM	0.0	0.013	0.000
10:46:00 AM	0.0	0.012	0.000
10:47:00 AM	0.0	0.013	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.014	0.000
10:50:00 AM	0.0	0.013	0.000
10:51:00 AM	0.0	0.014	0.000
10:52:00 AM	0.0	0.013	0.000
10:53:00 AM	0.0	0.013	0.000
10:54:00 AM	0.0	0.013	0.000
10:55:00 AM	0.0	0.013	0.000
10:56:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:57:00 AM	0.0	0.014	0.000
10:58:00 AM	0.0	0.013	0.000
10:59:00 AM	0.0	0.014	0.000
11:00:00 AM	0.0	0.015	0.000
11:01:00 AM	0.0	0.014	0.000
11:02:00 AM	0.0	0.013	0.000
11:03:00 AM	0.0	0.013	0.000
11:04:00 AM	0.0	0.013	0.000
11:05:00 AM	0.0	0.012	0.000
11:06:00 AM	0.0	0.016	0.000
11:07:00 AM	0.0	0.013	0.000
11:08:00 AM	0.0	0.013	0.000
11:09:00 AM	0.0	0.013	0.000
11:10:00 AM	0.0	0.013	0.000
11:11:00 AM	0.0	0.013	0.000
11:12:00 AM	0.0	0.014	0.000
11:13:00 AM	0.0	0.014	0.000
11:14:00 AM	0.0	0.015	0.000
11:15:00 AM	0.0	0.017	0.000
11:16:00 AM	0.0	0.019	0.000
11:17:00 AM	0.0	0.014	0.000
11:18:00 AM	0.0	0.013	0.000
11:19:00 AM	0.0	0.013	0.000
11:20:00 AM	0.0	0.013	0.000
11:21:00 AM	0.0	0.014	0.000
11:22:00 AM	0.0	0.013	0.000
11:23:00 AM	0.0	0.014	0.000
11:24:00 AM	0.0	0.013	0.000
11:25:00 AM	0.0	0.013	0.000
11:26:00 AM	0.0	0.012	0.000
11:27:00 AM	0.0	0.013	0.000
11:28:00 AM	0.0	0.013	0.000
11:29:00 AM	0.0	0.013	0.000
11:30:00 AM	0.0	0.014	0.000
11:31:00 AM	0.0	0.013	0.000
11:32:00 AM	0.0	0.014	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.013	0.000
11:35:00 AM	0.0	0.013	0.000
11:36:00 AM	0.0	0.013	0.000
11:37:00 AM	0.0	0.014	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.013	0.000
11:40:00 AM	0.0	0.012	0.000
11:41:00 AM	0.0	0.012	0.000
11:42:00 AM	0.0	0.012	0.000
11:43:00 AM	0.0	0.012	0.000
11:44:00 AM	0.0	0.011	0.000
11:45:00 AM	0.0	0.012	0.000
11:46:00 AM	0.0	0.013	0.000
11:47:00 AM	0.0	0.012	0.000
11:48:00 AM	0.0	0.013	0.000
11:49:00 AM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:50:00 AM	0.5	0.016	0.000
11:51:00 AM	0.1	0.017	0.000
11:52:00 AM	0.1	0.014	0.000
11:53:00 AM	0.0	0.013	0.000
11:54:00 AM	0.1	0.013	0.000
11:55:00 AM	0.0	0.013	0.000
11:56:00 AM	0.0	0.012	0.000
11:57:00 AM	0.1	0.013	0.000
11:58:00 AM	0.1	0.013	0.000
11:59:00 AM	0.0	0.013	0.000
12:00:00 PM	0.1	0.013	0.000
12:01:00 PM	0.1	0.012	0.000
12:02:00 PM	0.2	0.013	0.000
12:03:00 PM	0.2	0.012	0.000
12:04:00 PM	0.2	0.012	0.000
12:05:00 PM	0.2	0.012	0.000
12:06:00 PM	0.2	0.012	0.000
12:07:00 PM	0.2	0.012	0.000
12:08:00 PM	0.2	0.012	0.000
12:09:00 PM	0.2	0.012	0.000
12:10:00 PM	0.2	0.012	0.000
12:11:00 PM	0.2	0.013	0.000
12:12:00 PM	0.2	0.013	0.000
12:13:00 PM	0.2	0.014	0.000
12:14:00 PM	0.2	0.013	0.000
12:15:00 PM	0.2	0.014	0.000
12:16:00 PM	0.2	0.014	0.000
12:17:00 PM	0.2	0.014	0.000
12:18:00 PM	0.3	0.014	0.000
12:19:00 PM	0.2	0.012	0.000
12:20:00 PM	0.2	0.012	0.000
12:21:00 PM	0.2	0.012	0.000
12:22:00 PM	0.3	0.013	0.000
12:23:00 PM	0.3	0.012	0.000
12:24:00 PM	0.2	0.012	0.000
12:25:00 PM	0.2	0.013	0.000
12:26:00 PM	0.3	0.014	0.000
12:27:00 PM	0.3	0.013	0.000
12:28:00 PM	0.3	0.012	0.000
12:29:00 PM	0.3	0.012	0.000
12:30:00 PM	0.3	0.012	0.000
12:31:00 PM	0.3	0.011	0.000
12:32:00 PM	0.3	0.011	0.000
12:33:00 PM	0.3	0.012	0.000
12:34:00 PM	0.3	0.011	0.000
12:35:00 PM	0.3	0.011	0.000
12:36:00 PM	0.4	0.011	0.000
12:37:00 PM	0.3	0.011	0.000
12:38:00 PM	0.3	0.012	0.000
12:39:00 PM	0.3	0.012	0.000
12:40:00 PM	0.3	0.012	0.000
12:41:00 PM	0.3	0.012	0.000
12:42:00 PM	0.3	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:43:00 PM	0.3	0.012	0.000
12:44:00 PM	0.3	0.012	0.000
12:45:00 PM	0.3	0.012	0.000
12:46:00 PM	0.3	0.012	0.000
12:47:00 PM	0.3	0.012	0.000
12:48:00 PM	0.3	0.012	0.000
12:49:00 PM	0.3	0.012	0.000
12:50:00 PM	0.4	0.011	0.000
12:51:00 PM	0.3	0.011	0.000
12:52:00 PM	0.3	0.011	0.000
12:53:00 PM	0.4	0.011	0.000
12:54:00 PM	0.4	0.011	0.000
12:55:00 PM	0.3	0.011	0.000
12:56:00 PM	0.3	0.011	0.000
12:57:00 PM	0.4	0.015	0.000
12:58:00 PM	0.3	0.013	0.000
12:59:00 PM	0.3	0.012	0.000
1:00:00 PM	0.3	0.012	0.000
1:01:00 PM	0.4	0.012	0.000
1:02:00 PM	0.3	0.013	0.000
1:03:00 PM	0.4	0.012	0.000
1:04:00 PM	0.3	0.012	0.000
1:05:00 PM	0.3	0.012	0.000
1:06:00 PM	0.4	0.012	0.000
1:07:00 PM	0.4	0.013	0.000
1:08:00 PM	0.3	0.012	0.000
1:09:00 PM	0.3	0.012	0.000
1:10:00 PM	0.3	0.012	0.000
1:11:00 PM	0.3	0.012	0.000
1:12:00 PM	0.3	0.012	0.000
1:13:00 PM	0.3	0.012	0.000
1:14:00 PM	0.2	0.012	0.000
1:15:00 PM	0.3	0.012	0.000
1:16:00 PM	0.3	0.012	0.000
1:17:00 PM	0.3	0.012	0.000
1:18:00 PM	0.4	0.013	0.000
1:19:00 PM	0.3	0.013	0.000
1:20:00 PM	0.3	0.013	0.000
1:21:00 PM	0.3	0.013	0.000
1:22:00 PM	0.3	0.013	0.000
1:23:00 PM	0.3	0.013	0.000
1:24:00 PM	0.3	0.012	0.000
1:25:00 PM	0.3	0.012	0.000
1:26:00 PM	0.2	0.012	0.000
1:27:00 PM	0.2	0.012	0.000
1:28:00 PM	0.2	0.013	0.000
1:29:00 PM	0.2	0.012	0.000
1:30:00 PM	0.4	0.014	0.000
1:31:00 PM	0.3	0.013	0.000
1:32:00 PM	0.3	0.012	0.000
1:33:00 PM	0.5	0.013	0.000
1:34:00 PM	0.3	0.013	0.000
1:35:00 PM	0.3	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:36:00 PM	0.4	0.013	0.000
1:37:00 PM	0.3	0.013	0.000
1:38:00 PM	0.3	0.013	0.000
1:39:00 PM	0.3	0.015	0.000
1:40:00 PM	0.3	0.016	0.000
1:41:00 PM	0.2	0.016	0.000
1:42:00 PM	0.3	0.015	0.000
1:43:00 PM	0.3	0.016	0.000
1:44:00 PM	0.3	0.017	0.000
1:45:00 PM	0.3	0.018	0.000
1:46:00 PM	0.3	0.019	0.000
1:47:00 PM	0.4	0.019	0.000
1:48:00 PM	0.3	0.019	0.000
1:49:00 PM	0.4	0.020	0.000
1:50:00 PM	0.3	0.025	0.000
1:51:00 PM	0.3	0.029	0.000
1:52:00 PM	0.3	0.020	0.000
1:53:00 PM	0.6	0.018	0.000
1:54:00 PM	0.2	0.024	0.000
1:55:00 PM	0.3	0.020	0.000
1:56:00 PM	0.4	0.061	0.000
1:57:00 PM	0.3	0.023	0.000
1:58:00 PM	0.3	0.021	0.000
1:59:00 PM	0.3	0.022	0.000
2:00:00 PM	0.2	0.022	0.000
2:01:00 PM	0.5	0.028	0.000
2:02:00 PM	0.4	0.021	0.000
2:03:00 PM	0.3	0.035	0.000
2:04:00 PM	0.3	0.019	0.000
2:05:00 PM	0.9	0.067	0.000
2:06:00 PM	0.5	0.038	0.000
2:07:00 PM	0.2	0.021	0.000
2:08:00 PM	0.3	0.018	0.000
2:09:00 PM	0.3	0.019	0.000
2:10:00 PM	0.4	0.022	0.000
2:11:00 PM	1.1	0.032	0.000
2:12:00 PM	0.3	0.046	0.000
2:13:00 PM	0.3	0.016	0.000
2:14:00 PM	1.3	0.021	0.000
2:15:00 PM	0.4	0.037	0.000
2:16:00 PM	0.2	0.033	0.000
2:17:00 PM	0.4	0.054	0.000
2:18:00 PM	0.3	0.016	0.000
2:19:00 PM	0.7	0.021	0.000
2:20:00 PM	0.4	0.020	0.000
2:21:00 PM	0.4	0.025	0.000
2:22:00 PM	0.3	0.018	0.000
2:23:00 PM	0.4	0.015	0.000
2:24:00 PM	0.3	0.014	0.000
2:25:00 PM	0.3	0.014	0.000
2:26:00 PM	0.4	0.015	0.000
2:27:00 PM	0.3	0.014	0.000
2:28:00 PM	0.3	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:29:00 PM	0.3	0.013	0.000
2:30:00 PM	0.4	0.014	0.000
2:31:00 PM	0.3	0.014	0.000
2:32:00 PM	0.4	0.015	0.000
2:33:00 PM	0.3	0.013	0.000
2:34:00 PM	0.3	0.013	0.000
2:35:00 PM	0.4	0.013	0.000
2:36:00 PM	0.4	0.014	0.000
2:37:00 PM	0.4	0.014	0.000
2:38:00 PM	0.5	0.014	0.000
2:39:00 PM	0.4	0.015	0.000
2:40:00 PM	0.3	0.014	0.000
2:41:00 PM	0.4	0.014	0.000
2:42:00 PM	0.3	0.013	0.000
2:43:00 PM	0.3	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:54:00 AM	0.0	0.038	0.000
9:55:00 AM	0.0	0.015	0.000
9:56:00 AM	0.0	0.014	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.0	0.015	0.000
9:59:00 AM	0.0	0.014	0.000
10:00:00 AM	0.0	0.015	0.000
10:01:00 AM	0.0	0.015	0.000
10:02:00 AM	0.0	0.014	0.000
10:03:00 AM	0.0	0.014	0.000
10:04:00 AM	0.0	0.018	0.000
10:05:00 AM	0.0	0.017	0.000
10:06:00 AM	0.0	0.015	0.000
10:07:00 AM	0.0	0.015	0.000
10:08:00 AM	0.0	0.013	0.000
10:09:00 AM	0.0	0.013	0.000
10:10:00 AM	0.0	0.013	0.000
10:11:00 AM	0.0	0.013	0.000
10:12:00 AM	0.0	0.014	0.000
10:13:00 AM	0.0	0.014	0.000
10:14:00 AM	0.0	0.014	0.000
10:15:00 AM	0.0	0.015	0.000
10:16:00 AM	0.0	0.015	0.000
10:17:00 AM	0.0	0.013	0.000
10:18:00 AM	0.0	0.013	0.000
10:19:00 AM	0.0	0.014	0.000
10:20:00 AM	0.0	0.014	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.014	0.000
10:23:00 AM	0.0	0.016	0.000
10:24:00 AM	0.0	0.016	0.000
10:25:00 AM	0.0	0.014	0.000
10:26:00 AM	0.0	0.014	0.000
10:27:00 AM	0.0	0.013	0.000
10:28:00 AM	0.0	0.013	0.000
10:29:00 AM	0.0	0.013	0.000
10:30:00 AM	0.0	0.013	0.000
10:31:00 AM	0.0	0.014	0.000
10:32:00 AM	0.0	0.014	0.000
10:33:00 AM	0.0	0.013	0.000
10:34:00 AM	0.0	0.014	0.000
10:35:00 AM	0.0	0.014	0.000
10:36:00 AM	0.0	0.014	0.000
10:37:00 AM	0.0	0.013	0.000
10:38:00 AM	0.0	0.013	0.000
10:39:00 AM	0.0	0.012	0.000
10:40:00 AM	0.0	0.014	0.000
10:41:00 AM	0.0	0.012	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.0	0.015	0.000
10:44:00 AM	0.0	0.015	0.000
10:45:00 AM	0.0	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:46:00 AM	0.0	0.014	0.000
10:47:00 AM	0.0	0.014	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.016	0.000
10:50:00 AM	0.0	0.014	0.000
10:51:00 AM	0.0	0.015	0.000
10:52:00 AM	0.0	0.016	0.000
10:53:00 AM	0.0	0.014	0.000
10:54:00 AM	0.0	0.014	0.000
10:55:00 AM	0.0	0.063	0.000
10:56:00 AM	0.0	0.021	0.000
10:57:00 AM	0.0	0.016	0.000
10:58:00 AM	0.0	0.015	0.000
10:59:00 AM	0.0	0.016	0.000
11:00:00 AM	0.0	0.016	0.000
11:01:00 AM	0.0	0.018	0.000
11:02:00 AM	0.0	0.015	0.000
11:03:00 AM	0.0	0.014	0.000
11:04:00 AM	0.0	0.014	0.000
11:05:00 AM	0.0	0.015	0.000
11:06:00 AM	0.0	0.013	0.000
11:07:00 AM	0.0	0.014	0.000
11:08:00 AM	0.0	0.014	0.000
11:09:00 AM	0.0	0.014	0.000
11:10:00 AM	0.0	0.014	0.000
11:11:00 AM	0.0	0.015	0.000
11:12:00 AM	0.0	0.014	0.000
11:13:00 AM	0.0	0.015	0.000
11:14:00 AM	0.0	0.014	0.000
11:15:00 AM	0.0	0.015	0.000
11:16:00 AM	0.0	0.016	0.000
11:17:00 AM	0.0	0.016	0.000
11:18:00 AM	0.0	0.015	0.000
11:19:00 AM	0.0	0.016	0.000
11:20:00 AM	0.0	0.016	0.000
11:21:00 AM	0.0	0.016	0.000
11:22:00 AM	0.0	0.015	0.000
11:23:00 AM	0.0	0.015	0.000
11:24:00 AM	0.0	0.015	0.000
11:25:00 AM	0.0	0.016	0.000
11:26:00 AM	0.0	0.017	0.000
11:27:00 AM	0.0	0.014	0.000
11:28:00 AM	0.0	0.014	0.000
11:29:00 AM	0.0	0.014	0.000
11:30:00 AM	0.0	0.014	0.000
11:31:00 AM	0.0	0.014	0.000
11:32:00 AM	0.0	0.013	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.013	0.000
11:35:00 AM	0.0	0.013	0.000
11:36:00 AM	0.0	0.016	0.000
11:37:00 AM	0.0	0.015	0.000
11:38:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:39:00 AM	0.0	0.014	0.000
11:40:00 AM	0.0	0.014	0.000
11:41:00 AM	0.0	0.012	0.000
11:42:00 AM	0.0	0.012	0.000
11:43:00 AM	0.0	0.013	0.000
11:44:00 AM	0.0	0.011	0.000
11:45:00 AM	0.0	0.012	0.000
11:46:00 AM	0.0	0.012	0.000
11:47:00 AM	0.0	0.012	0.000
11:48:00 AM	0.0	0.013	0.000
11:49:00 AM	0.0	0.014	0.000
11:50:00 AM	0.0	0.013	0.000
11:51:00 AM	0.0	0.013	0.000
11:52:00 AM	0.0	0.012	0.000
11:53:00 AM	0.0	0.013	0.000
11:54:00 AM	0.0	0.013	0.000
11:55:00 AM	0.0	0.014	0.000
11:56:00 AM	0.0	0.013	0.000
11:57:00 AM	0.0	0.014	0.000
11:58:00 AM	0.0	0.013	0.000
11:59:00 AM	0.0	0.013	0.000
12:00:00 PM	0.0	0.014	0.000
12:01:00 PM	0.0	0.014	0.000
12:02:00 PM	0.0	0.014	0.000
12:03:00 PM	0.0	0.014	0.000
12:04:00 PM	0.0	0.013	0.000
12:05:00 PM	0.0	0.013	0.000
12:06:00 PM	0.0	0.014	0.000
12:07:00 PM	0.0	0.013	0.000
12:08:00 PM	0.0	0.012	0.000
12:09:00 PM	0.0	0.013	0.000
12:10:00 PM	0.0	0.013	0.000
12:11:00 PM	0.0	0.013	0.000
12:12:00 PM	0.0	0.014	0.000
12:13:00 PM	0.0	0.014	0.000
12:14:00 PM	0.0	0.014	0.000
12:15:00 PM	0.0	0.013	0.000
12:16:00 PM	0.0	0.014	0.000
12:17:00 PM	0.0	0.014	0.000
12:18:00 PM	0.0	0.013	0.000
12:19:00 PM	0.0	0.012	0.000
12:20:00 PM	0.0	0.012	0.000
12:21:00 PM	0.0	0.012	0.000
12:22:00 PM	0.0	0.012	0.000
12:23:00 PM	0.0	0.012	0.000
12:24:00 PM	0.0	0.012	0.000
12:25:00 PM	0.0	0.012	0.000
12:26:00 PM	0.0	0.014	0.000
12:27:00 PM	0.0	0.016	0.000
12:28:00 PM	0.0	0.012	0.000
12:29:00 PM	0.0	0.012	0.000
12:30:00 PM	0.0	0.013	0.000
12:31:00 PM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:32:00 PM	0.0	0.012	0.000
12:33:00 PM	0.0	0.014	0.000
12:34:00 PM	0.0	0.012	0.000
12:35:00 PM	0.0	0.013	0.000
12:36:00 PM	0.0	0.012	0.000
12:37:00 PM	0.0	0.011	0.000
12:38:00 PM	0.0	0.011	0.000
12:39:00 PM	0.0	0.011	0.000
12:40:00 PM	0.0	0.012	0.000
12:41:00 PM	0.0	0.015	0.000
12:42:00 PM	0.0	0.014	0.000
12:43:00 PM	0.0	0.012	0.000
12:44:00 PM	0.0	0.012	0.000
12:45:00 PM	0.0	0.012	0.000
12:46:00 PM	0.0	0.012	0.000
12:47:00 PM	0.0	0.012	0.000
12:48:00 PM	0.0	0.012	0.000
12:49:00 PM	0.0	0.013	0.000
12:50:00 PM	0.0	0.012	0.000
12:51:00 PM	0.0	0.011	0.000
12:52:00 PM	0.0	0.012	0.000
12:53:00 PM	0.0	0.012	0.000
12:54:00 PM	0.0	0.012	0.000
12:55:00 PM	0.0	0.012	0.000
12:56:00 PM	0.0	0.012	0.000
12:57:00 PM	0.1	0.073	0.000
12:58:00 PM	0.0	0.022	0.000
12:59:00 PM	0.0	0.012	0.000
1:00:00 PM	0.0	0.012	0.000
1:01:00 PM	0.0	0.012	0.000
1:02:00 PM	0.0	0.013	0.000
1:03:00 PM	0.0	0.013	0.000
1:04:00 PM	0.0	0.014	0.000
1:05:00 PM	0.0	0.013	0.000
1:06:00 PM	0.0	0.013	0.000
1:07:00 PM	0.0	0.012	0.000
1:08:00 PM	0.0	0.014	0.000
1:09:00 PM	0.0	0.013	0.000
1:10:00 PM	0.0	0.013	0.000
1:11:00 PM	0.0	0.013	0.000
1:12:00 PM	0.0	0.013	0.000
1:13:00 PM	0.0	0.012	0.000
1:14:00 PM	0.0	0.012	0.000
1:15:00 PM	0.0	0.012	0.000
1:16:00 PM	0.0	0.012	0.000
1:17:00 PM	0.0	0.012	0.000
1:18:00 PM	0.0	0.013	0.000
1:19:00 PM	0.0	0.014	0.000
1:20:00 PM	0.0	0.013	0.000
1:21:00 PM	0.0	0.014	0.000
1:22:00 PM	0.0	0.014	0.000
1:23:00 PM	0.0	0.013	0.000
1:24:00 PM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:25:00 PM	0.0	0.014	0.000
1:26:00 PM	0.0	0.015	0.000
1:27:00 PM	0.0	0.014	0.000
1:28:00 PM	0.2	0.013	0.000
1:29:00 PM	0.2	0.022	0.000
1:30:00 PM	0.1	0.032	0.000
1:31:00 PM	0.1	0.017	0.000
1:32:00 PM	0.0	0.014	0.000
1:33:00 PM	0.1	0.014	0.000
1:34:00 PM	0.1	0.014	0.000
1:35:00 PM	0.0	0.014	0.000
1:36:00 PM	0.0	0.015	0.000
1:37:00 PM	0.0	0.013	0.000
1:38:00 PM	0.0	0.014	0.000
1:39:00 PM	0.0	0.015	0.000
1:40:00 PM	0.0	0.016	0.000
1:41:00 PM	0.0	0.018	0.000
1:42:00 PM	0.0	0.017	0.000
1:43:00 PM	0.0	0.017	0.000
1:44:00 PM	0.0	0.019	0.000
1:45:00 PM	0.1	0.021	0.000
1:46:00 PM	0.1	0.021	0.000
1:47:00 PM	0.0	0.021	0.000
1:48:00 PM	0.0	0.020	0.000
1:49:00 PM	0.0	0.020	0.000
1:50:00 PM	0.1	0.022	0.000
1:51:00 PM	0.1	0.028	0.000
1:52:00 PM	0.1	0.026	0.000
1:53:00 PM	0.1	0.026	0.000
1:54:00 PM	0.1	0.033	0.000
1:55:00 PM	0.1	0.032	0.000
1:56:00 PM	0.1	0.026	0.000
1:57:00 PM	0.1	0.021	0.000
1:58:00 PM	0.1	0.021	0.000
1:59:00 PM	0.0	0.021	0.000
2:00:00 PM	0.1	0.021	0.000
2:01:00 PM	0.1	0.021	0.000
2:02:00 PM	0.1	0.019	0.000
2:03:00 PM	0.1	0.029	0.000
2:04:00 PM	0.1	0.022	0.000
2:05:00 PM	0.1	0.018	0.000
2:06:00 PM	0.1	0.020	0.000
2:07:00 PM	0.1	0.024	0.000
2:08:00 PM	0.1	0.022	0.000
2:09:00 PM	0.1	0.024	0.000
2:10:00 PM	0.1	0.027	0.000
2:11:00 PM	0.1	0.018	0.000
2:12:00 PM	0.1	0.019	0.000
2:13:00 PM	0.1	0.017	0.000
2:14:00 PM	0.1	0.015	0.000
2:15:00 PM	0.1	0.014	0.000
2:16:00 PM	0.1	0.018	0.000
2:17:00 PM	0.1	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 28, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:18:00 PM	0.1	0.022	0.000
2:19:00 PM	0.1	0.02	0.000
2:20:00 PM	0.1	0.03	0.000
2:21:00 PM	0.1	0.02	0.000
2:22:00 PM	0.1	0.027	0.000
2:23:00 PM	0.1	0.021	0.000
2:24:00 PM	0.1	0.015	0.000
2:25:00 PM	0.1	0.014	0.000
2:26:00 PM	0.1	0.014	0.000
2:27:00 PM	0.1	0.014	0.000
2:28:00 PM	0.1	0.014	0.000
2:29:00 PM	0.1	0.015	0.000
2:30:00 PM	0.1	0.014	0.000
2:31:00 PM	0.1	0.014	0.000
2:32:00 PM	0.1	0.015	0.000
2:33:00 PM	0.1	0.014	0.000
2:34:00 PM	0.1	0.013	0.000
2:35:00 PM	0.1	0.014	0.000
2:36:00 PM	0.1	0.014	0.000
2:37:00 PM	0.1	0.015	0.000
2:38:00 PM	0.1	0.015	0.000
2:39:00 PM	0.1	0.015	0.000
2:40:00 PM	0.1	0.015	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 19 mph	Date:	12/29/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco starts excavating area #4 by hand to uncover buried utilities. All soils going onto the stockpile within the stockpile area. Preferred screening soils for VOCs and Mercury vapor, field screening of soils did not return results above background levels of 0.000 mg/m3 and 0.0 PPM. Aarco reconfigured digging box to allow for proper shoring and to allow for the passage of subgrade cables through the box. During digging Aarco disturbed historic cable wire that is likely disconnected, damaging one wire. Aarco is determining the status of the wire to determine the proper actions. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.006	0.000	0.0	0.008	0.000
Down Wind	0.0	0.006	0.000	0.1	0.010	0.000
Work Zone	0.0	0.010	0.000	0.1	0.022	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco hand digging to expose utilities.



Preferred screening excavated soils for VOCs and mercury.

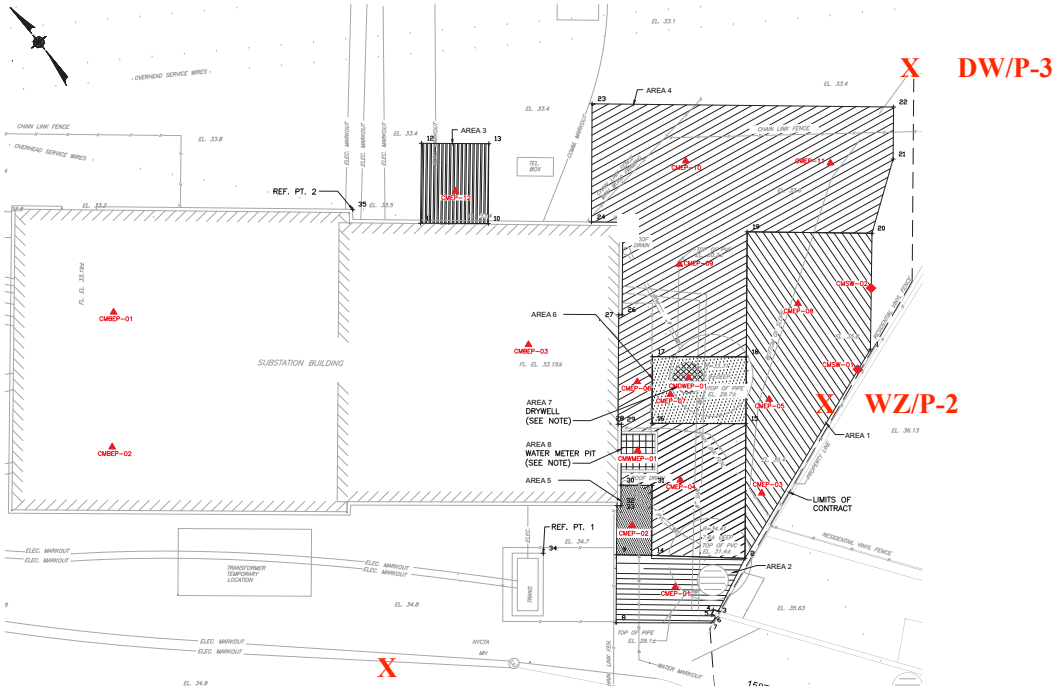


View of excavation.



Aarco installing digging box.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:00:00 AM	0.0	0.0	0.000
9:01:00 AM	0.0	0.007	0.000
9:02:00 AM	0.0	0.007	0.000
9:03:00 AM	0.0	0.005	0.000
9:04:00 AM	0.0	0.005	0.000
9:05:00 AM	0.0	0.004	0.000
9:06:00 AM	0.0	0.004	0.000
9:07:00 AM	0.0	0.005	0.000
9:08:00 AM	0.0	0.008	0.000
9:09:00 AM	0.0	0.008	0.000
9:10:00 AM	0.0	0.009	0.000
9:11:00 AM	0.0	0.010	0.000
9:12:00 AM	0.0	0.008	0.000
9:13:00 AM	0.0	0.007	0.000
9:14:00 AM	0.0	0.011	0.000
9:15:00 AM	0.0	0.013	0.000
9:16:00 AM	0.0	0.010	0.000
9:17:00 AM	0.0	0.006	0.000
9:18:00 AM	0.0	0.006	0.000
9:19:00 AM	0.0	0.006	0.000
9:20:00 AM	0.0	0.008	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.006	0.000
9:23:00 AM	0.0	0.006	0.000
9:24:00 AM	0.0	0.005	0.000
9:25:00 AM	0.0	0.005	0.000
9:26:00 AM	0.0	0.005	0.000
9:27:00 AM	0.0	0.005	0.000
9:28:00 AM	0.0	0.005	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.006	0.000
9:31:00 AM	0.0	0.005	0.000
9:32:00 AM	0.0	0.006	0.000
9:33:00 AM	0.0	0.005	0.000
9:34:00 AM	0.0	0.005	0.000
9:35:00 AM	0.0	0.006	0.000
9:36:00 AM	0.0	0.009	0.000
9:37:00 AM	0.0	0.008	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.008	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.006	0.000
9:42:00 AM	0.0	0.008	0.000
9:43:00 AM	0.0	0.007	0.000
9:44:00 AM	0.0	0.009	0.000
9:45:00 AM	0.0	0.007	0.000
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.005	0.000
9:48:00 AM	0.0	0.005	0.000
9:49:00 AM	0.0	0.005	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.005	0.000
9:54:00 AM	0.0	0.004	0.000
9:55:00 AM	0.0	0.017	0.000
9:56:00 AM	0.0	0.006	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.006	0.000
10:00:00 AM	0.0	0.005	0.000
10:01:00 AM	0.0	0.005	0.000
10:02:00 AM	0.0	0.006	0.000
10:03:00 AM	0.0	0.005	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.010	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.007	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.008	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.005	0.000
10:15:00 AM	0.0	0.004	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.004	0.000
10:18:00 AM	0.0	0.004	0.000
10:19:00 AM	0.0	0.004	0.000
10:20:00 AM	0.0	0.004	0.000
10:21:00 AM	0.0	0.004	0.000
10:22:00 AM	0.0	0.004	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.0	0.004	0.000
10:25:00 AM	0.0	0.004	0.000
10:26:00 AM	0.0	0.004	0.000
10:27:00 AM	0.0	0.004	0.000
10:28:00 AM	0.0	0.004	0.000
10:29:00 AM	0.0	0.005	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.006	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.006	0.000
10:38:00 AM	0.0	0.005	0.000
10:39:00 AM	0.0	0.006	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:45:00 AM	0.0	0.006	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.005	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.011	0.000
10:56:00 AM	0.0	0.009	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.006	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.008	0.000
11:05:00 AM	0.0	0.008	0.000
11:06:00 AM	0.0	0.010	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.005	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.005	0.000
11:14:00 AM	0.0	0.005	0.000
11:15:00 AM	0.0	0.005	0.000
11:16:00 AM	0.0	0.005	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.005	0.000
11:19:00 AM	0.0	0.005	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.005	0.000
11:22:00 AM	0.0	0.005	0.000
11:23:00 AM	0.0	0.004	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.006	0.000
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.004	0.000
11:29:00 AM	0.0	0.004	0.000
11:30:00 AM	0.0	0.004	0.000
11:31:00 AM	0.0	0.005	0.000
11:32:00 AM	0.0	0.006	0.000
11:33:00 AM	0.0	0.005	0.000
11:34:00 AM	0.0	0.005	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.005	0.000
11:37:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.005	0.000
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.004	0.000
11:42:00 AM	0.0	0.004	0.000
11:43:00 AM	0.0	0.004	0.000
11:44:00 AM	0.0	0.004	0.000
11:45:00 AM	0.0	0.004	0.000
11:46:00 AM	0.0	0.004	0.000
11:47:00 AM	0.0	0.004	0.000
11:48:00 AM	0.0	0.004	0.000
11:49:00 AM	0.0	0.004	0.000
11:50:00 AM	0.0	0.004	0.000
11:51:00 AM	0.0	0.004	0.000
11:52:00 AM	0.0	0.004	0.000
11:53:00 AM	0.0	0.004	0.000
11:54:00 AM	0.0	0.004	0.000
11:55:00 AM	0.0	0.004	0.000
11:56:00 AM	0.0	0.004	0.000
11:57:00 AM	0.0	0.004	0.000
11:58:00 AM	0.0	0.004	0.000
11:59:00 AM	0.0	0.004	0.000
12:00:00 PM	0.0	0.004	0.000
12:01:00 PM	0.0	0.005	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.007	0.000
12:04:00 PM	0.0	0.008	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.006	0.000
12:07:00 PM	0.0	0.005	0.000
12:08:00 PM	0.0	0.005	0.000
12:09:00 PM	0.0	0.004	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.004	0.000
12:14:00 PM	0.0	0.004	0.000
12:15:00 PM	0.0	0.004	0.000
12:16:00 PM	0.0	0.004	0.000
12:17:00 PM	0.0	0.004	0.000
12:18:00 PM	0.0	0.004	0.000
12:19:00 PM	0.0	0.004	0.000
12:20:00 PM	0.0	0.010	0.000
12:21:00 PM	0.0	0.004	0.000
12:22:00 PM	0.0	0.004	0.000
12:23:00 PM	0.0	0.004	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.007	0.000
12:27:00 PM	0.0	0.006	0.000
12:28:00 PM	0.0	0.007	0.000
12:29:00 PM	0.0	0.007	0.000
12:30:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:31:00 PM	0.0	0.004	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.006	0.000
12:35:00 PM	0.0	0.006	0.000
12:36:00 PM	0.0	0.006	0.000
12:37:00 PM	0.0	0.005	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.008	0.000
12:40:00 PM	0.0	0.005	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.006	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.005	0.000
12:45:00 PM	0.0	0.006	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.005	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.005	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.005	0.000
12:52:00 PM	0.0	0.004	0.000
12:53:00 PM	0.0	0.006	0.000
12:54:00 PM	0.0	0.009	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.005	0.000
12:57:00 PM	0.0	0.005	0.000
12:58:00 PM	0.0	0.005	0.000
12:59:00 PM	0.0	0.004	0.000
1:00:00 PM	0.0	0.005	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.0	0.008	0.000
1:03:00 PM	0.0	0.008	0.000
1:04:00 PM	0.0	0.007	0.000
1:05:00 PM	0.0	0.011	0.000
1:06:00 PM	0.0	0.005	0.000
1:07:00 PM	0.0	0.005	0.000
1:08:00 PM	0.0	0.005	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.010	0.000
1:11:00 PM	0.0	0.010	0.000
1:12:00 PM	0.0	0.005	0.000
1:13:00 PM	0.0	0.005	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.006	0.000
1:16:00 PM	0.0	0.005	0.000
1:17:00 PM	0.0	0.004	0.000
1:18:00 PM	0.0	0.004	0.000
1:19:00 PM	0.0	0.004	0.000
1:20:00 PM	0.0	0.005	0.000
1:21:00 PM	0.0	0.005	0.000
1:22:00 PM	0.0	0.005	0.000
1:23:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:24:00 PM	0.0	0.008	0.000
1:25:00 PM	0.0	0.006	0.000
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.006	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.005	0.000
1:30:00 PM	0.0	0.005	0.000
1:31:00 PM	0.0	0.004	0.000
1:32:00 PM	0.0	0.005	0.000
1:33:00 PM	0.0	0.005	0.000
1:34:00 PM	0.0	0.004	0.000
1:35:00 PM	0.0	0.004	0.000
1:36:00 PM	0.0	0.005	0.000
1:37:00 PM	0.0	0.005	0.000
1:38:00 PM	0.0	0.005	0.000
1:39:00 PM	0.0	0.005	0.000
1:40:00 PM	0.0	0.005	0.000
1:41:00 PM	0.0	0.005	0.000
1:42:00 PM	0.0	0.010	0.000
1:43:00 PM	0.1	0.010	0.000
1:44:00 PM	0.1	0.007	0.000
1:45:00 PM	0.0	0.006	0.000
1:46:00 PM	0.0	0.007	0.000
1:47:00 PM	0.0	0.005	0.000
1:48:00 PM	0.0	0.007	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.004	0.000
1:51:00 PM	0.0	0.007	0.000
1:52:00 PM	0.0	0.004	0.000
1:53:00 PM	0.0	0.004	0.000
1:54:00 PM	0.0	0.004	0.000
1:55:00 PM	0.0	0.004	0.000
1:56:00 PM	0.0	0.004	0.000
1:57:00 PM	0.0	0.005	0.000
1:58:00 PM	0.0	0.004	0.000
1:59:00 PM	0.0	0.005	0.000
2:00:00 PM	0.0	0.005	0.000
2:01:00 PM	0.0	0.005	0.000
2:02:00 PM	0.0	0.005	0.000
2:03:00 PM	0.0	0.005	0.000
2:04:00 PM	0.0	0.005	0.000
2:05:00 PM	0.0	0.005	0.000
2:06:00 PM	0.0	0.007	0.000
2:07:00 PM	0.0	0.010	0.000
2:08:00 PM	0.0	0.008	0.000
2:09:00 PM	0.0	0.008	0.000
2:10:00 PM	0.0	0.009	0.000
2:11:00 PM	0.0	0.007	0.000
2:12:00 PM	0.0	0.008	0.000
2:13:00 PM	0.0	0.006	0.000
2:14:00 PM	0.0	0.005	0.000
2:15:00 PM	0.0	0.005	0.000
2:16:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:17:00 PM	0.0	0.010	0.000
2:18:00 PM	0.0	0.006	0.000
2:19:00 PM	0.0	0.005	0.000
2:20:00 PM	0.0	0.005	0.000
2:21:00 PM	0.0	0.004	0.000
2:22:00 PM	0.0	0.005	0.000
2:23:00 PM	0.0	0.006	0.000
2:24:00 PM	0.0	0.005	0.000
2:25:00 PM	0.0	0.005	0.000
2:26:00 PM	0.0	0.006	0.000
2:27:00 PM	0.0	0.007	0.000
2:28:00 PM	0.0	0.007	0.000
2:29:00 PM	0.0	0.006	0.000
2:30:00 PM	0.0	0.005	0.000
2:31:00 PM	0.0	0.005	0.000
2:32:00 PM	0.0	0.005	0.000
2:33:00 PM	0.0	0.004	0.000
2:34:00 PM	0.0	0.004	0.000
2:35:00 PM	0.0	0.004	0.000
2:36:00 PM	0.0	0.004	0.000
2:37:00 PM	0.0	0.005	0.000
2:38:00 PM	0.0	0.005	0.000
2:39:00 PM	0.0	0.006	0.000
2:40:00 PM	0.0	0.009	0.000
2:41:00 PM	0.0	0.008	0.000
2:42:00 PM	0.0	0.008	0.000
2:43:00 PM	0.0	0.008	0.000
2:44:00 PM	0.0	0.006	0.000
2:45:00 PM	0.0	0.006	0.000
2:46:00 PM	0.0	0.006	0.000
2:47:00 PM	0.0	0.007	0.000
2:48:00 PM	0.0	0.007	0.000
2:49:00 PM	0.0	0.005	0.000
2:50:00 PM	0.0	0.005	0.000
2:51:00 PM	0.0	0.005	0.000
2:52:00 PM	0.0	0.005	0.000
2:53:00 PM	0.0	0.005	0.000
2:54:00 PM	0.0	0.005	0.000
2:55:00 PM	0.0	0.006	0.000
2:56:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:12:00 AM	0.0	0.036	0.000
9:13:00 AM	0.0	0.007	0.000
9:14:00 AM	0.0	0.010	0.000
9:15:00 AM	0.0	0.012	0.000
9:16:00 AM	0.0	0.011	0.000
9:17:00 AM	0.0	0.008	0.000
9:18:00 AM	0.0	0.007	0.000
9:19:00 AM	0.0	0.007	0.000
9:20:00 AM	0.0	0.008	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.007	0.000
9:24:00 AM	0.0	0.006	0.000
9:25:00 AM	0.0	0.006	0.000
9:26:00 AM	0.0	0.006	0.000
9:27:00 AM	0.0	0.005	0.000
9:28:00 AM	0.0	0.007	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.006	0.000
9:32:00 AM	0.0	0.008	0.000
9:33:00 AM	0.0	0.007	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.010	0.000
9:36:00 AM	0.0	0.030	0.000
9:37:00 AM	0.0	0.021	0.000
9:38:00 AM	0.0	0.012	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.011	0.000
9:41:00 AM	0.0	0.011	0.000
9:42:00 AM	0.0	0.014	0.000
9:43:00 AM	0.3	0.013	0.000
9:44:00 AM	0.0	0.030	0.000
9:45:00 AM	0.0	0.016	0.000
9:46:00 AM	0.0	0.011	0.000
9:47:00 AM	0.0	0.008	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.012	0.000
9:50:00 AM	0.0	0.008	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.020	0.000
9:54:00 AM	0.0	0.017	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.0	0.017	0.000
9:57:00 AM	0.0	0.018	0.000
9:58:00 AM	0.1	0.010	0.000
9:59:00 AM	0.0	0.008	0.000
10:00:00 AM	0.0	0.023	0.000
10:01:00 AM	0.0	0.019	0.000
10:02:00 AM	0.0	0.019	0.000
10:03:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.018	0.000
10:06:00 AM	0.0	0.022	0.000
10:07:00 AM	0.0	0.013	0.000
10:08:00 AM	0.0	0.013	0.000
10:09:00 AM	0.0	0.013	0.000
10:10:00 AM	0.0	0.012	0.000
10:11:00 AM	0.0	0.017	0.000
10:12:00 AM	0.1	0.010	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.011	0.000
10:21:00 AM	0.0	0.008	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.007	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.1	0.010	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.013	0.000
10:31:00 AM	0.0	0.013	0.000
10:32:00 AM	0.1	0.020	0.000
10:33:00 AM	0.1	0.024	0.000
10:34:00 AM	0.0	0.026	0.000
10:35:00 AM	0.1	0.012	0.000
10:36:00 AM	0.7	0.029	0.000
10:37:00 AM	0.3	0.021	0.000
10:38:00 AM	0.3	0.016	0.000
10:39:00 AM	0.0	0.025	0.000
10:40:00 AM	0.0	0.021	0.000
10:41:00 AM	0.0	0.020	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.1	0.010	0.000
10:44:00 AM	0.1	0.018	0.000
10:45:00 AM	0.1	0.017	0.000
10:46:00 AM	0.1	0.020	0.000
10:47:00 AM	0.0	0.017	0.000
10:48:00 AM	0.0	0.019	0.000
10:49:00 AM	0.0	0.020	0.000
10:50:00 AM	0.0	0.027	0.000
10:51:00 AM	0.0	0.023	0.000
10:52:00 AM	0.0	0.025	0.000
10:53:00 AM	0.0	0.011	0.000
10:54:00 AM	0.2	0.023	0.000
10:55:00 AM	0.0	0.019	0.000
10:56:00 AM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:57:00 AM	0.1	0.023	0.000
10:58:00 AM	0.2	0.022	0.000
10:59:00 AM	0.2	0.021	0.000
11:00:00 AM	0.1	0.023	0.000
11:01:00 AM	0.0	0.027	0.000
11:02:00 AM	0.2	0.016	0.000
11:03:00 AM	0.3	0.020	0.000
11:04:00 AM	0.0	0.032	0.000
11:05:00 AM	0.0	0.023	0.000
11:06:00 AM	0.0	0.016	0.000
11:07:00 AM	0.1	0.030	0.000
11:08:00 AM	0.0	0.026	0.000
11:09:00 AM	0.1	0.016	0.000
11:10:00 AM	0.0	0.018	0.000
11:11:00 AM	0.0	0.018	0.000
11:12:00 AM	0.3	0.020	0.000
11:13:00 AM	0.1	0.023	0.000
11:14:00 AM	0.0	0.013	0.000
11:15:00 AM	0.0	0.009	0.000
11:16:00 AM	0.0	0.008	0.000
11:17:00 AM	0.0	0.009	0.000
11:18:00 AM	0.0	0.008	0.000
11:19:00 AM	0.4	0.018	0.000
11:20:00 AM	0.0	0.023	0.000
11:21:00 AM	0.0	0.025	0.000
11:22:00 AM	0.0	0.024	0.000
11:23:00 AM	0.0	0.010	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.1	0.007	0.000
11:26:00 AM	0.0	0.009	0.000
11:27:00 AM	0.0	0.010	0.000
11:28:00 AM	0.0	0.006	0.000
11:29:00 AM	0.0	0.006	0.000
11:30:00 AM	0.0	0.005	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.0	0.006	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.007	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.007	0.000
11:40:00 AM	0.0	0.004	0.000
11:41:00 AM	0.0	0.010	0.000
11:42:00 AM	0.0	0.004	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.0	0.001	0.000
11:45:00 AM	0.0	0.000	0.000
11:46:00 AM	0.0	0.001	0.000
11:47:00 AM	0.1	0.001	0.000
11:48:00 AM	0.0	0.000	0.000
11:49:00 AM	0.0	0.000	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:50:00 AM	0.0	0.000	0.000
11:51:00 AM	0.0	0.000	0.000
11:52:00 AM	0.0	0.000	0.000
11:53:00 AM	0.0	0.000	0.000
11:54:00 AM	0.0	0.000	0.000
11:55:00 AM	0.1	0.000	0.000
11:56:00 AM	0.0	0.000	0.000
11:57:00 AM	0.0	0.000	0.000
11:58:00 AM	0.0	0.000	0.000
11:59:00 AM	0.0	0.000	0.000
12:00:00 PM	0.0	0.000	0.000
12:01:00 PM	0.1	0.000	0.000
12:02:00 PM	0.0	0.000	0.000
12:03:00 PM	0.0	0.000	0.000
12:04:00 PM	0.0	0.000	0.000
12:05:00 PM	0.1	0.000	0.000
12:06:00 PM	0.0	0.000	0.000
12:07:00 PM	0.0	0.000	0.000
12:08:00 PM	0.0	0.000	0.000
12:09:00 PM	0.0	0.000	0.000
12:10:00 PM	0.0	0.000	0.000
12:11:00 PM	0.0	0.000	0.000
12:12:00 PM	0.0	0.000	0.000
12:13:00 PM	0.0	0.000	0.000
12:14:00 PM	0.0	0.000	0.000
12:15:00 PM	0.0	0.000	0.000
12:16:00 PM	0.0	0.000	0.000
12:17:00 PM	0.0	0.000	0.000
12:18:00 PM	0.0	0.000	0.000
12:19:00 PM	0.0	0.000	0.000
12:20:00 PM	0.0	0.000	0.000
12:21:00 PM	0.0	0.000	0.000
12:22:00 PM	0.0	0.000	0.000
12:23:00 PM	0.0	0.000	0.000
12:24:00 PM	0.0	0.000	0.000
12:25:00 PM	0.0	0.000	0.000
12:26:00 PM	0.0	0.000	0.000
12:27:00 PM	0.0	0.000	0.000
12:28:00 PM	0.0	0.000	0.000
12:29:00 PM	0.0	0.000	0.000
12:30:00 PM	0.0	0.000	0.000
12:31:00 PM	0.0	0.000	0.000
12:32:00 PM	0.0	0.000	0.000
12:33:00 PM	0.0	0.000	0.000
12:34:00 PM	0.0	0.000	0.000
12:35:00 PM	0.0	0.000	0.000
12:36:00 PM	0.0	0.000	0.000
12:37:00 PM	0.0	0.000	0.000
12:38:00 PM	0.0	0.000	0.000
12:39:00 PM	0.0	0.000	0.000
12:40:00 PM	0.0	0.006	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:43:00 PM	0.0	0.006	0.000
12:44:00 PM	0.0	0.006	0.000
12:45:00 PM	0.0	0.007	0.000
12:46:00 PM	0.0	0.006	0.000
12:47:00 PM	0.0	0.006	0.000
12:48:00 PM	0.0	0.006	0.000
12:49:00 PM	0.0	0.006	0.000
12:50:00 PM	0.1	0.007	0.000
12:51:00 PM	0.1	0.028	0.000
12:52:00 PM	0.3	0.015	0.000
12:53:00 PM	0.0	0.022	0.000
12:54:00 PM	0.0	0.018	0.000
12:55:00 PM	0.3	0.016	0.000
12:56:00 PM	0.2	0.025	0.000
12:57:00 PM	0.1	0.014	0.000
12:58:00 PM	0.0	0.025	0.000
12:59:00 PM	0.0	0.024	0.000
1:00:00 PM	0.0	0.028	0.000
1:01:00 PM	0.0	0.016	0.000
1:02:00 PM	0.0	0.020	0.000
1:03:00 PM	0.0	0.023	0.000
1:04:00 PM	0.0	0.015	0.000
1:05:00 PM	0.0	0.015	0.000
1:06:00 PM	0.0	0.020	0.000
1:07:00 PM	0.0	0.012	0.000
1:08:00 PM	0.0	0.009	0.000
1:09:00 PM	0.0	0.013	0.000
1:10:00 PM	0.0	0.012	0.000
1:11:00 PM	0.0	0.018	0.000
1:12:00 PM	0.0	0.009	0.000
1:13:00 PM	0.0	0.009	0.000
1:14:00 PM	0.0	0.019	0.000
1:15:00 PM	0.0	0.011	0.000
1:16:00 PM	0.0	0.017	0.000
1:17:00 PM	0.0	0.019	0.000
1:18:00 PM	0.0	0.009	0.000
1:19:00 PM	0.0	0.013	0.000
1:20:00 PM	0.0	0.011	0.000
1:21:00 PM	0.0	0.016	0.000
1:22:00 PM	0.0	0.019	0.000
1:23:00 PM	0.0	0.012	0.000
1:24:00 PM	0.0	0.008	0.000
1:25:00 PM	0.0	0.008	0.000
1:26:00 PM	0.0	0.010	0.000
1:27:00 PM	0.0	0.008	0.000
1:28:00 PM	0.0	0.008	0.000
1:29:00 PM	0.0	0.007	0.000
1:30:00 PM	0.0	0.006	0.000
1:31:00 PM	0.0	0.006	0.000
1:32:00 PM	0.0	0.010	0.000
1:33:00 PM	0.0	0.007	0.000
1:34:00 PM	0.0	0.006	0.000
1:35:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:36:00 PM	0.0	0.005	0.000
1:37:00 PM	0.0	0.016	0.000
1:38:00 PM	0.0	0.019	0.000
1:39:00 PM	0.0	0.011	0.000
1:40:00 PM	0.0	0.012	0.000
1:41:00 PM	0.0	0.008	0.000
1:42:00 PM	0.0	0.021	0.000
1:43:00 PM	0.0	0.015	0.000
1:44:00 PM	0.0	0.019	0.000
1:45:00 PM	0.0	0.018	0.000
1:46:00 PM	0.0	0.011	0.000
1:47:00 PM	0.0	0.007	0.000
1:48:00 PM	0.0	0.009	0.000
1:49:00 PM	0.0	0.010	0.000
1:50:00 PM	0.0	0.018	0.000
1:51:00 PM	0.0	0.013	0.000
1:52:00 PM	0.0	0.008	0.000
1:53:00 PM	0.0	0.014	0.000
1:54:00 PM	0.0	0.017	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.0	0.011	0.000
1:57:00 PM	0.0	0.010	0.000
1:58:00 PM	0.0	0.007	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.0	0.007	0.000
2:01:00 PM	0.0	0.007	0.000
2:02:00 PM	0.0	0.007	0.000
2:03:00 PM	0.0	0.008	0.000
2:04:00 PM	0.0	0.008	0.000
2:05:00 PM	0.0	0.007	0.000
2:06:00 PM	0.0	0.010	0.000
2:07:00 PM	0.0	0.014	0.000
2:08:00 PM	0.0	0.011	0.000
2:09:00 PM	0.0	0.012	0.000
2:10:00 PM	0.0	0.010	0.000
2:11:00 PM	0.0	0.010	0.000
2:12:00 PM	0.0	0.011	0.000
2:13:00 PM	0.0	0.010	0.000
2:14:00 PM	0.0	0.010	0.000
2:15:00 PM	0.0	0.008	0.000
2:16:00 PM	0.0	0.013	0.000
2:17:00 PM	0.0	0.015	0.000
2:18:00 PM	0.0	0.014	0.000
2:19:00 PM	0.0	0.020	0.000
2:20:00 PM	0.0	0.015	0.000
2:21:00 PM	0.0	0.009	0.000
2:22:00 PM	0.0	0.011	0.000
2:23:00 PM	0.0	0.006	0.000
2:24:00 PM	0.0	0.009	0.000
2:25:00 PM	0.0	0.007	0.000
2:26:00 PM	0.0	0.008	0.000
2:27:00 PM	0.0	0.008	0.000
2:28:00 PM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:29:00 PM	0.0	0.009	0.000
2:30:00 PM	0.0	0.007	0.000
2:31:00 PM	0.0	0.007	0.000
2:32:00 PM	0.0	0.006	0.000
2:33:00 PM	0.0	0.008	0.000
2:34:00 PM	0.0	0.007	0.000
2:35:00 PM	0.0	0.007	0.000
2:36:00 PM	0.0	0.006	0.000
2:37:00 PM	0.0	0.007	0.000
2:38:00 PM	0.0	0.007	0.000
2:39:00 PM	0.0	0.010	0.000
2:40:00 PM	0.0	0.012	0.000
2:41:00 PM	0.0	0.011	0.000
2:42:00 PM	0.0	0.010	0.000
2:43:00 PM	0.0	0.011	0.000
2:44:00 PM	0.0	0.010	0.000
2:45:00 PM	0.0	0.007	0.000
2:46:00 PM	0.0	0.010	0.000
2:47:00 PM	0.0	0.009	0.000
2:48:00 PM	0.0	0.009	0.000
2:49:00 PM	0.0	0.007	0.000
2:50:00 PM	0.0	0.009	0.000
2:51:00 PM	0.0	0.007	0.000
2:52:00 PM	0.0	0.008	0.000
2:53:00 PM	0.0	0.007	0.000
2:54:00 PM	0.0	0.011	0.000
2:55:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:04:00 AM	0.0	0.011	0.000
9:05:00 AM	0.0	0.006	0.000
9:06:00 AM	0.0	0.006	0.000
9:07:00 AM	0.0	0.006	0.000
9:08:00 AM	0.0	0.010	0.000
9:09:00 AM	0.0	0.008	0.000
9:10:00 AM	0.0	0.010	0.000
9:11:00 AM	0.0	0.013	0.000
9:12:00 AM	0.0	0.008	0.000
9:13:00 AM	0.0	0.007	0.000
9:14:00 AM	0.0	0.012	0.000
9:15:00 AM	0.0	0.013	0.000
9:16:00 AM	0.0	0.012	0.000
9:17:00 AM	0.0	0.009	0.000
9:18:00 AM	0.0	0.007	0.000
9:19:00 AM	0.0	0.008	0.000
9:20:00 AM	0.0	0.009	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.008	0.000
9:24:00 AM	0.0	0.007	0.000
9:25:00 AM	0.0	0.006	0.000
9:26:00 AM	0.0	0.007	0.000
9:27:00 AM	0.0	0.006	0.000
9:28:00 AM	0.0	0.005	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.007	0.000
9:32:00 AM	0.0	0.009	0.000
9:33:00 AM	0.0	0.008	0.000
9:34:00 AM	0.0	0.017	0.000
9:35:00 AM	0.0	0.012	0.000
9:36:00 AM	0.0	0.010	0.000
9:37:00 AM	0.0	0.013	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.007	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.008	0.000
9:43:00 AM	0.0	0.011	0.000
9:44:00 AM	0.0	0.011	0.000
9:45:00 AM	0.0	0.007	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.006	0.000
9:48:00 AM	0.0	0.006	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.006	0.000
9:54:00 AM	0.0	0.004	0.000
9:55:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:56:00 AM	0.0	0.009	0.000
9:57:00 AM	0.0	0.006	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.006	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.006	0.000
10:02:00 AM	0.0	0.008	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.008	0.000
10:05:00 AM	0.0	0.012	0.000
10:06:00 AM	0.0	0.009	0.000
10:07:00 AM	0.0	0.009	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.009	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.004	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.004	0.000
10:18:00 AM	0.0	0.004	0.000
10:19:00 AM	0.0	0.004	0.000
10:20:00 AM	0.0	0.004	0.000
10:21:00 AM	0.0	0.003	0.000
10:22:00 AM	0.0	0.003	0.000
10:23:00 AM	0.0	0.003	0.000
10:24:00 AM	0.0	0.003	0.000
10:25:00 AM	0.0	0.004	0.000
10:26:00 AM	0.0	0.004	0.000
10:27:00 AM	0.0	0.007	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.0	0.004	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.009	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.010	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.0	0.008	0.000
10:44:00 AM	0.0	0.006	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:49:00 AM	0.0	0.005	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.015	0.000
10:56:00 AM	0.0	0.007	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.008	0.000
11:00:00 AM	0.0	0.004	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.006	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.004	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.005	0.000
11:14:00 AM	0.0	0.005	0.000
11:15:00 AM	0.0	0.004	0.000
11:16:00 AM	0.0	0.005	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.005	0.000
11:19:00 AM	0.0	0.005	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.004	0.000
11:22:00 AM	0.0	0.005	0.000
11:23:00 AM	0.0	0.005	0.000
11:24:00 AM	0.0	0.005	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.005	0.000
11:29:00 AM	0.0	0.005	0.000
11:30:00 AM	0.0	0.005	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.009	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.1	0.006	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.1	0.006	0.000
11:37:00 AM	0.1	0.006	0.000
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.005	0.000
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:42:00 AM	0.0	0.004	0.000
11:43:00 AM	0.0	0.004	0.000
11:44:00 AM	0.0	0.004	0.000
11:45:00 AM	0.1	0.004	0.000
11:46:00 AM	0.0	0.004	0.000
11:47:00 AM	0.0	0.004	0.000
11:48:00 AM	0.0	0.006	0.000
11:49:00 AM	0.0	0.004	0.000
11:50:00 AM	0.0	0.004	0.000
11:51:00 AM	0.0	0.004	0.000
11:52:00 AM	0.0	0.005	0.000
11:53:00 AM	0.0	0.004	0.000
11:54:00 AM	0.0	0.004	0.000
11:55:00 AM	0.0	0.004	0.000
11:56:00 AM	0.0	0.004	0.000
11:57:00 AM	0.0	0.004	0.000
11:58:00 AM	0.1	0.004	0.000
11:59:00 AM	0.1	0.004	0.000
12:00:00 PM	0.1	0.004	0.000
12:01:00 PM	0.1	0.006	0.000
12:02:00 PM	0.1	0.005	0.000
12:03:00 PM	0.1	0.008	0.000
12:04:00 PM	0.1	0.009	0.000
12:05:00 PM	0.1	0.012	0.000
12:06:00 PM	0.1	0.007	0.000
12:07:00 PM	0.1	0.004	0.000
12:08:00 PM	0.0	0.004	0.000
12:09:00 PM	0.1	0.004	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.1	0.004	0.000
12:13:00 PM	0.1	0.004	0.000
12:14:00 PM	0.0	0.004	0.000
12:15:00 PM	0.0	0.005	0.000
12:16:00 PM	0.1	0.004	0.000
12:17:00 PM	0.1	0.004	0.000
12:18:00 PM	0.0	0.004	0.000
12:19:00 PM	0.1	0.004	0.000
12:20:00 PM	0.0	0.004	0.000
12:21:00 PM	0.0	0.004	0.000
12:22:00 PM	0.1	0.005	0.000
12:23:00 PM	0.1	0.005	0.000
12:24:00 PM	0.1	0.007	0.000
12:25:00 PM	0.1	0.007	0.000
12:26:00 PM	0.1	0.008	0.000
12:27:00 PM	0.1	0.008	0.000
12:28:00 PM	0.1	0.010	0.000
12:29:00 PM	0.1	0.008	0.000
12:30:00 PM	0.1	0.007	0.000
12:31:00 PM	0.1	0.005	0.000
12:32:00 PM	0.1	0.006	0.000
12:33:00 PM	0.1	0.006	0.000
12:34:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:35:00 PM	0.1	0.007	0.000
12:36:00 PM	0.1	0.007	0.000
12:37:00 PM	0.1	0.005	0.000
12:38:00 PM	0.1	0.005	0.000
12:39:00 PM	0.1	0.006	0.000
12:40:00 PM	0.1	0.005	0.000
12:41:00 PM	0.1	0.005	0.000
12:42:00 PM	0.1	0.006	0.000
12:43:00 PM	0.1	0.005	0.000
12:44:00 PM	0.1	0.006	0.000
12:45:00 PM	0.1	0.006	0.000
12:46:00 PM	0.1	0.006	0.000
12:47:00 PM	0.1	0.006	0.000
12:48:00 PM	0.1	0.005	0.000
12:49:00 PM	0.1	0.005	0.000
12:50:00 PM	0.1	0.005	0.000
12:51:00 PM	0.1	0.007	0.000
12:52:00 PM	0.1	0.004	0.000
12:53:00 PM	0.1	0.004	0.000
12:54:00 PM	0.1	0.005	0.000
12:55:00 PM	0.1	0.006	0.000
12:56:00 PM	0.1	0.005	0.000
12:57:00 PM	0.1	0.005	0.000
12:58:00 PM	0.1	0.004	0.000
12:59:00 PM	0.1	0.004	0.000
1:00:00 PM	0.1	0.004	0.000
1:01:00 PM	0.1	0.006	0.000
1:02:00 PM	0.1	0.009	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.010	0.000
1:05:00 PM	0.1	0.010	0.000
1:06:00 PM	0.1	0.006	0.000
1:07:00 PM	0.1	0.006	0.000
1:08:00 PM	0.1	0.004	0.000
1:09:00 PM	0.1	0.006	0.000
1:10:00 PM	0.1	0.008	0.000
1:11:00 PM	0.1	0.010	0.000
1:12:00 PM	0.1	0.006	0.000
1:13:00 PM	0.1	0.005	0.000
1:14:00 PM	0.1	0.004	0.000
1:15:00 PM	0.1	0.004	0.000
1:16:00 PM	0.1	0.004	0.000
1:17:00 PM	0.1	0.003	0.000
1:18:00 PM	0.1	0.003	0.000
1:19:00 PM	0.1	0.004	0.000
1:20:00 PM	0.1	0.004	0.000
1:21:00 PM	0.1	0.005	0.000
1:22:00 PM	0.1	0.004	0.000
1:23:00 PM	0.1	0.004	0.000
1:24:00 PM	0.1	0.003	0.000
1:25:00 PM	0.1	0.005	0.000
1:26:00 PM	0.1	0.007	0.000
1:27:00 PM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:28:00 PM	0.1	0.005	0.000
1:29:00 PM	0.1	0.005	0.000
1:30:00 PM	0.1	0.005	0.000
1:31:00 PM	0.1	0.004	0.000
1:32:00 PM	0.1	0.004	0.000
1:33:00 PM	0.1	0.004	0.000
1:34:00 PM	0.1	0.004	0.000
1:35:00 PM	0.1	0.004	0.000
1:36:00 PM	0.1	0.004	0.000
1:37:00 PM	0.1	0.004	0.000
1:38:00 PM	0.1	0.005	0.000
1:39:00 PM	0.1	0.006	0.000
1:40:00 PM	0.1	0.005	0.000
1:41:00 PM	0.1	0.005	0.000
1:42:00 PM	0.4	0.011	0.000
1:43:00 PM	0.2	0.011	0.000
1:44:00 PM	0.1	0.009	0.000
1:45:00 PM	0.1	0.007	0.000
1:46:00 PM	0.1	0.006	0.000
1:47:00 PM	0.1	0.004	0.000
1:48:00 PM	0.1	0.009	0.000
1:49:00 PM	0.1	0.008	0.000
1:50:00 PM	0.1	0.003	0.000
1:51:00 PM	0.1	0.003	0.000
1:52:00 PM	0.1	0.004	0.000
1:53:00 PM	0.1	0.004	0.000
1:54:00 PM	0.1	0.003	0.000
1:55:00 PM	0.1	0.004	0.000
1:56:00 PM	0.1	0.004	0.000
1:57:00 PM	0.1	0.003	0.000
1:58:00 PM	0.1	0.004	0.000
1:59:00 PM	0.1	0.004	0.000
2:00:00 PM	0.1	0.005	0.000
2:01:00 PM	0.1	0.005	0.000
2:02:00 PM	0.1	0.004	0.000
2:03:00 PM	0.1	0.006	0.000
2:04:00 PM	0.1	0.004	0.000
2:05:00 PM	0.1	0.005	0.000
2:06:00 PM	0.1	0.009	0.000
2:07:00 PM	0.1	0.010	0.000
2:08:00 PM	0.1	0.010	0.000
2:09:00 PM	0.1	0.009	0.000
2:10:00 PM	0.1	0.009	0.000
2:11:00 PM	0.1	0.007	0.000
2:12:00 PM	0.1	0.009	0.000
2:13:00 PM	0.1	0.005	0.000
2:14:00 PM	0.1	0.004	0.000
2:15:00 PM	0.1	0.004	0.000
2:16:00 PM	0.1	0.007	0.000
2:17:00 PM	0.1	0.008	0.000
2:18:00 PM	0.1	0.005	0.000
2:19:00 PM	0.1	0.005	0.000
2:20:00 PM	0.1	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 29, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:21:00 PM	0.1	0.004	0.000
2:22:00 PM	0.1	0.004	0.000
2:23:00 PM	0.1	0.005	0.000
2:24:00 PM	0.1	0.006	0.000
2:25:00 PM	0.1	0.008	0.000
2:26:00 PM	0.1	0.007	0.000
2:27:00 PM	0.1	0.006	0.000
2:28:00 PM	0.1	0.009	0.000
2:29:00 PM	0.1	0.006	0.000
2:30:00 PM	0.1	0.005	0.000
2:31:00 PM	0.1	0.004	0.000
2:32:00 PM	0.1	0.004	0.000
2:33:00 PM	0.1	0.005	0.000
2:34:00 PM	0.1	0.004	0.000
2:35:00 PM	0.1	0.003	0.000
2:36:00 PM	0.1	0.005	0.000
2:37:00 PM	0.1	0.008	0.000
2:38:00 PM	0.1	0.005	0.000
2:39:00 PM	0.1	0.007	0.000
2:40:00 PM	0.1	0.008	0.000
2:41:00 PM	0.1	0.008	0.000
2:42:00 PM	0.1	0.007	0.000
2:43:00 PM	0.1	0.008	0.000
2:44:00 PM	0.1	0.005	0.000
2:45:00 PM	0.1	0.004	0.000
2:46:00 PM	0.1	0.005	0.000
2:47:00 PM	0.1	0.008	0.000
2:48:00 PM	0.1	0.010	0.000
2:49:00 PM	0.1	0.005	0.000
2:50:00 PM	0.1	0.005	0.000
2:51:00 PM	0.1	0.004	0.000
2:52:00 PM	0.1	0.004	0.000
2:53:00 PM	0.1	0.006	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 13 mph	Date:	12/30/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues excavating area #4. All soils going onto the stockpile within the stockpile area. Preferred screening soils for VOCs and Mercury vapor, field screening of soils did not return results above background levels of 0.000 mg/m3 and 0.0 PPM. Aarco, after speaking with LIRR, installing shoring panels vertically to allow for proper shoring at depth and allow for utilities to enter and exit the excavation area. Preferred collected endpoint sample CM-EP-10 B(6) from within area #4. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.008	0.000	0.0	0.013	0.000
Down Wind	0.1	0.015	0.000	0.1	0.029	0.000
Work Zone	0.1	0.019	0.000	0.3	0.063	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco excavating soils from within area #4.



Preferred screening endpoint sample for VOCs.

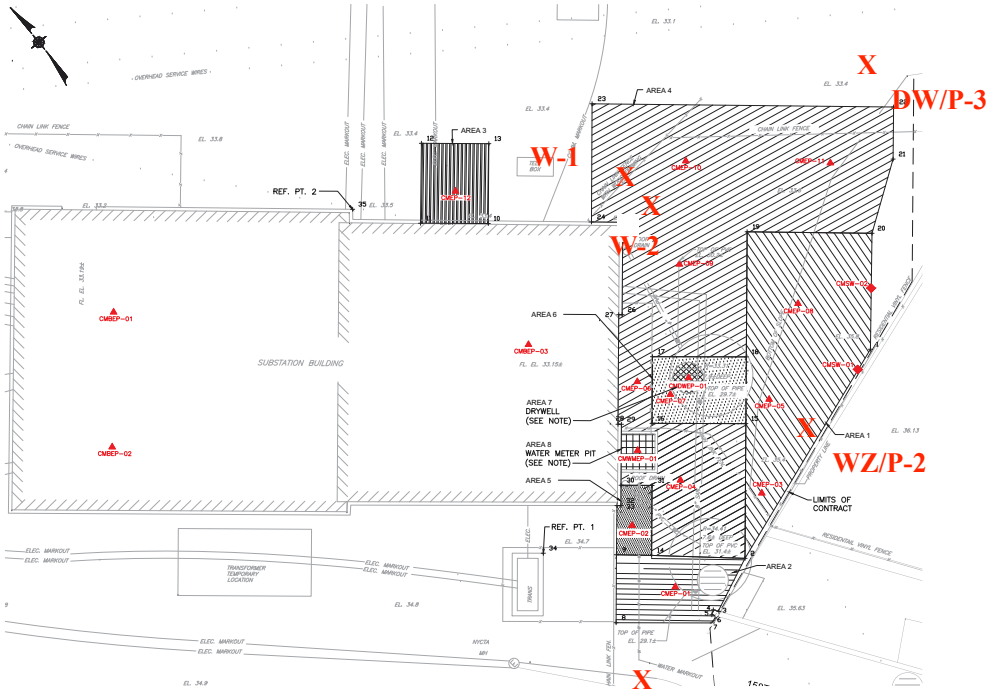


All excavated soils are placed within the stockpiled area.



Aarco installing shoring panels vertically allow for utilities to enter and exit excavation.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:07:00 AM	0.0		0.000
9:08:00 AM	0.0	0.012	0.000
9:09:00 AM	0.0	0.011	0.000
9:10:00 AM	0.0	0.011	0.000
9:11:00 AM	0.0	0.011	0.000
9:12:00 AM	0.0	0.010	0.000
9:13:00 AM	0.0	0.010	0.000
9:14:00 AM	0.0	0.010	0.000
9:15:00 AM	0.0	0.009	0.000
9:16:00 AM	0.0	0.010	0.000
9:17:00 AM	0.0	0.010	0.000
9:18:00 AM	0.0	0.010	0.000
9:19:00 AM	0.0	0.010	0.000
9:20:00 AM	0.0	0.010	0.000
9:21:00 AM	0.0	0.011	0.000
9:22:00 AM	0.0	0.014	0.000
9:23:00 AM	0.0	0.011	0.000
9:24:00 AM	0.0	0.013	0.000
9:25:00 AM	0.0	0.011	0.000
9:26:00 AM	0.0	0.012	0.000
9:27:00 AM	0.0	0.012	0.000
9:28:00 AM	0.0	0.013	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.013	0.000
9:31:00 AM	0.0	0.013	0.000
9:32:00 AM	0.0	0.013	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.013	0.000
9:35:00 AM	0.0	0.013	0.000
9:36:00 AM	0.0	0.013	0.000
9:37:00 AM	0.0	0.013	0.000
9:38:00 AM	0.0	0.013	0.000
9:39:00 AM	0.0	0.013	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.0	0.013	0.000
9:42:00 AM	0.0	0.013	0.000
9:43:00 AM	0.0	0.013	0.000
9:44:00 AM	0.0	0.013	0.000
9:45:00 AM	0.0	0.014	0.000
9:46:00 AM	0.0	0.014	0.000
9:47:00 AM	0.0	0.013	0.000
9:48:00 AM	0.0	0.013	0.000
9:49:00 AM	0.0	0.013	0.000
9:50:00 AM	0.0	0.013	0.000
9:51:00 AM	0.0	0.013	0.000
9:52:00 AM	0.0	0.013	0.000
9:53:00 AM	0.0	0.013	0.000
9:54:00 AM	0.0	0.013	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.0	0.013	0.000
9:57:00 AM	0.0	0.013	0.000
9:58:00 AM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:59:00 AM	0.0	0.013	0.000
10:00:00 AM	0.0	0.012	0.000
10:01:00 AM	0.0	0.013	0.000
10:02:00 AM	0.0	0.012	0.000
10:03:00 AM	0.0	0.012	0.000
10:04:00 AM	0.0	0.012	0.000
10:05:00 AM	0.0	0.011	0.000
10:06:00 AM	0.0	0.010	0.000
10:07:00 AM	0.0	0.010	0.000
10:08:00 AM	0.0	0.010	0.000
10:09:00 AM	0.0	0.010	0.000
10:10:00 AM	0.0	0.010	0.000
10:11:00 AM	0.0	0.009	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.009	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.009	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.007	0.000
10:28:00 AM	0.0	0.007	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.007	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.007	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.023	0.000
10:50:00 AM	0.0	0.010	0.000
10:51:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.010	0.000
10:54:00 AM	0.0	0.008	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.007	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.008	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.034	0.000
11:04:00 AM	0.0	0.019	0.000
11:05:00 AM	0.0	0.015	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.012	0.000
11:13:00 AM	0.0	0.037	0.000
11:14:00 AM	0.0	0.014	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.007	0.000
11:18:00 AM	0.0	0.007	0.000
11:19:00 AM	0.0	0.007	0.000
11:20:00 AM	0.0	0.008	0.000
11:21:00 AM	0.0	0.017	0.000
11:22:00 AM	0.0	0.008	0.000
11:23:00 AM	0.0	0.007	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.008	0.000
11:30:00 AM	0.0	0.007	0.000
11:31:00 AM	0.0	0.007	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.007	0.000
11:34:00 AM	0.0	0.014	0.000
11:35:00 AM	0.0	0.008	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.008	0.000
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.007	0.000
11:40:00 AM	0.0	0.007	0.000
11:41:00 AM	0.0	0.016	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:45:00 AM	0.0	0.006	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.007	0.000
11:48:00 AM	0.0	0.006	0.000
11:49:00 AM	0.0	0.006	0.000
11:50:00 AM	0.0	0.006	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.006	0.000
11:54:00 AM	0.0	0.006	0.000
11:55:00 AM	0.0	0.006	0.000
11:56:00 AM	0.0	0.006	0.000
11:57:00 AM	0.0	0.006	0.000
11:58:00 AM	0.0	0.006	0.000
11:59:00 AM	0.0	0.023	0.000
12:00:00 PM	0.0	0.009	0.000
12:01:00 PM	0.0	0.006	0.000
12:02:00 PM	0.0	0.006	0.000
12:03:00 PM	0.0	0.006	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.005	0.000
12:07:00 PM	0.0	0.007	0.000
12:08:00 PM	0.0	0.006	0.000
12:09:00 PM	0.0	0.006	0.000
12:10:00 PM	0.0	0.005	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.005	0.000
12:14:00 PM	0.0	0.006	0.000
12:15:00 PM	0.0	0.005	0.000
12:16:00 PM	0.0	0.006	0.000
12:17:00 PM	0.0	0.007	0.000
12:18:00 PM	0.0	0.006	0.000
12:19:00 PM	0.0	0.006	0.000
12:20:00 PM	0.0	0.005	0.000
12:21:00 PM	0.0	0.005	0.000
12:22:00 PM	0.0	0.006	0.000
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.007	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.005	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.005	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.005	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.006	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.005	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.005	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.005	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.004	0.000
12:52:00 PM	0.0	0.004	0.000
12:53:00 PM	0.0	0.004	0.000
12:54:00 PM	0.0	0.004	0.000
12:55:00 PM	0.0	0.004	0.000
12:56:00 PM	0.0	0.004	0.000
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.005	0.000
12:59:00 PM	0.0	0.005	0.000
1:00:00 PM	0.0	0.005	0.000
1:01:00 PM	0.0	0.005	0.000
1:02:00 PM	0.0	0.004	0.000
1:03:00 PM	0.0	0.005	0.000
1:04:00 PM	0.0	0.005	0.000
1:05:00 PM	0.0	0.004	0.000
1:06:00 PM	0.0	0.005	0.000
1:07:00 PM	0.0	0.004	0.000
1:08:00 PM	0.0	0.005	0.000
1:09:00 PM	0.0	0.005	0.000
1:10:00 PM	0.0	0.007	0.000
1:11:00 PM	0.0	0.005	0.000
1:12:00 PM	0.0	0.004	0.000
1:13:00 PM	0.0	0.004	0.000
1:14:00 PM	0.0	0.004	0.000
1:15:00 PM	0.0	0.006	0.000
1:16:00 PM	0.0	0.025	0.000
1:17:00 PM	0.0	0.007	0.000
1:18:00 PM	0.0	0.004	0.000
1:19:00 PM	0.0	0.006	0.000
1:20:00 PM	0.0	0.016	0.000
1:21:00 PM	0.0	0.006	0.000
1:22:00 PM	0.0	0.005	0.000
1:23:00 PM	0.0	0.004	0.000
1:24:00 PM	0.0	0.009	0.000
1:25:00 PM	0.0	0.007	0.000
1:26:00 PM	0.0	0.005	0.000
1:27:00 PM	0.0	0.004	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.005	0.000
1:30:00 PM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:31:00 PM	0.0	0.004	0.000
1:32:00 PM	0.0	0.004	0.000
1:33:00 PM	0.0	0.004	0.000
1:34:00 PM	0.0	0.015	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.004	0.000
1:37:00 PM	0.0	0.005	0.000
1:38:00 PM	0.0	0.004	0.000
1:39:00 PM	0.0	0.004	0.000
1:40:00 PM	0.0	0.005	0.000
1:41:00 PM	0.0	0.007	0.000
1:42:00 PM	0.0	0.033	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.0	0.004	0.000
1:45:00 PM	0.0	0.005	0.000
1:46:00 PM	0.0	0.005	0.000
1:47:00 PM	0.0	0.006	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.005	0.000
1:50:00 PM	0.0	0.005	0.000
1:51:00 PM	0.0	0.005	0.000
1:52:00 PM	0.0	0.005	0.000
1:53:00 PM	0.0	0.004	0.000
1:54:00 PM	0.0	0.005	0.000
1:55:00 PM	0.0	0.005	0.000
1:56:00 PM	0.0	0.005	0.000
1:57:00 PM	0.0	0.005	0.000
1:58:00 PM	0.0	0.005	0.000
1:59:00 PM	0.0	0.005	0.000
2:00:00 PM	0.0	0.005	0.000
2:01:00 PM	0.0	0.005	0.000
2:02:00 PM	0.0	0.005	0.000
2:03:00 PM	0.0	0.005	0.000
2:04:00 PM	0.0	0.005	0.000
2:05:00 PM	0.0	0.005	0.000
2:06:00 PM	0.0	0.005	0.000
2:07:00 PM	0.0	0.005	0.000
2:08:00 PM	0.0	0.005	0.000
2:09:00 PM	0.0	0.005	0.000
2:10:00 PM	0.0	0.006	0.000
2:11:00 PM	0.0	0.005	0.000
2:12:00 PM	0.0	0.005	0.000
2:13:00 PM	0.1	0.005	0.000
2:14:00 PM	0.0	0.005	0.000
2:15:00 PM	0.1	0.006	0.000
2:16:00 PM	0.0	0.006	0.000
2:17:00 PM	0.0	0.016	0.000
2:18:00 PM	0.0	0.007	0.000
2:19:00 PM	0.0	0.005	0.000
2:20:00 PM	0.0	0.005	0.000
2:21:00 PM	0.0	0.005	0.000
2:22:00 PM	0.1	0.005	0.000
2:23:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:24:00 PM	0.0	0.005	0.000
2:25:00 PM	0.0	0.005	0.000
2:26:00 PM	0.0	0.010	0.000
2:27:00 PM	0.1	0.010	0.000
2:28:00 PM	0.1	0.005	0.000
2:29:00 PM	0.1	0.005	0.000
2:30:00 PM	0.0	0.006	0.000
2:31:00 PM	0.0	0.005	0.000
2:32:00 PM	0.0	0.005	0.000
2:33:00 PM	0.0	0.006	0.000
2:34:00 PM	0.0	0.006	0.000
2:35:00 PM	0.0	0.005	0.000
2:36:00 PM	0.0	0.010	0.000
2:37:00 PM	0.0	0.005	0.000
2:38:00 PM	0.0	0.006	0.000
2:39:00 PM	0.0	0.006	0.000
2:40:00 PM	0.0	0.006	0.000
2:41:00 PM	0.0	0.006	0.000
2:42:00 PM	0.0	0.006	0.000
2:43:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:26:00 AM	0.0		0.000
9:27:00 AM	0.0	0.033	0.000
9:28:00 AM	0.0	0.022	0.000
9:29:00 AM	0.0	0.020	0.000
9:30:00 AM	0.0	0.029	0.000
9:31:00 AM	0.0	0.018	0.000
9:32:00 AM	0.0	0.016	0.000
9:33:00 AM	0.0	0.019	0.000
9:34:00 AM	0.0	0.018	0.000
9:35:00 AM	0.0	0.031	0.000
9:36:00 AM	0.0	0.026	0.000
9:37:00 AM	0.0	0.020	0.000
9:38:00 AM	0.0	0.025	0.000
9:39:00 AM	0.4	0.017	0.000
9:40:00 AM	0.0	0.021	0.000
9:41:00 AM	0.0	0.019	0.000
9:42:00 AM	0.0	0.022	0.000
9:43:00 AM	0.0	0.057	0.000
9:44:00 AM	0.0	0.053	0.000
9:45:00 AM	0.1	0.020	0.000
9:46:00 AM	0.8	0.023	0.000
9:47:00 AM	2.0	0.022	0.000
9:48:00 AM	0.0	0.018	0.000
9:49:00 AM	0.0	0.019	0.000
9:50:00 AM	0.0	0.020	0.000
9:51:00 AM	0.0	0.021	0.000
9:52:00 AM	0.0	0.017	0.000
9:53:00 AM	0.0	0.052	0.000
9:54:00 AM	0.0	0.073	0.000
9:55:00 AM	0.0	0.046	0.000
9:56:00 AM	0.0	0.071	0.000
9:57:00 AM	1.0	0.049	0.000
9:58:00 AM	0.0	0.053	0.000
9:59:00 AM	0.7	0.047	0.000
10:00:00 AM	0.7	0.094	0.000
10:01:00 AM	0.0	0.064	0.000
10:02:00 AM	0.0	0.031	0.000
10:03:00 AM	0.0	0.023	0.000
10:04:00 AM	0.0	0.084	0.000
10:05:00 AM	1.3	0.075	0.000
10:06:00 AM	0.0	0.079	0.000
10:07:00 AM	0.5	0.061	0.000
10:08:00 AM	0.3	0.094	0.000
10:09:00 AM	0.0	0.030	0.000
10:10:00 AM	2.3	0.064	0.000
10:11:00 AM	1.6	0.048	0.000
10:12:00 AM	0.0	0.051	0.000
10:13:00 AM	2.3	0.024	0.000
10:14:00 AM	0.0	0.014	0.000
10:15:00 AM	0.0	0.025	0.000
10:16:00 AM	0.6	0.022	0.000
10:17:00 AM	3.3	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:18:00 AM	0.8	0.027	0.000
10:19:00 AM	0.0	0.027	0.000
10:20:00 AM	0.0	0.012	0.000
10:21:00 AM	1.1	0.012	0.000
10:22:00 AM	0.0	0.012	0.000
10:23:00 AM	0.0	0.013	0.000
10:24:00 AM	0.0	0.012	0.000
10:25:00 AM	0.9	0.010	0.000
10:26:00 AM	0.1	0.012	0.000
10:27:00 AM	0.3	0.009	0.000
10:28:00 AM	0.3	0.021	0.000
10:29:00 AM	0.0	0.031	0.000
10:30:00 AM	0.0	0.024	0.000
10:31:00 AM	0.7	0.016	0.000
10:32:00 AM	1.0	0.021	0.000
10:33:00 AM	0.4	0.015	0.000
10:34:00 AM	0.6	0.015	0.000
10:35:00 AM	1.5	0.015	0.000
10:36:00 AM	1.2	0.013	0.000
10:37:00 AM	0.0	0.012	0.000
10:38:00 AM	0.8	0.010	0.000
10:39:00 AM	0.0	0.033	0.000
10:40:00 AM	0.3	0.034	0.000
10:41:00 AM	1.5	0.056	0.000
10:42:00 AM	0.0	0.011	0.000
10:43:00 AM	0.0	0.013	0.000
10:44:00 AM	1.2	0.011	0.000
10:45:00 AM	0.0	0.010	0.000
10:46:00 AM	0.0	0.025	0.000
10:47:00 AM	0.1	0.025	0.000
10:48:00 AM	0.0	0.022	0.000
10:49:00 AM	0.0	0.022	0.000
10:50:00 AM	0.0	0.033	0.000
10:51:00 AM	0.1	0.037	0.000
10:52:00 AM	0.0	0.021	0.000
10:53:00 AM	0.0	0.018	0.000
10:54:00 AM	0.0	0.023	0.000
10:55:00 AM	0.4	0.015	0.000
10:56:00 AM	0.0	0.025	0.000
10:57:00 AM	0.0	0.010	0.000
10:58:00 AM	0.0	0.023	0.000
10:59:00 AM	0.0	0.015	0.000
11:00:00 AM	0.0	0.011	0.000
11:01:00 AM	0.3	0.012	0.000
11:02:00 AM	0.3	0.009	0.000
11:03:00 AM	0.7	0.038	0.000
11:04:00 AM	0.0	0.046	0.000
11:05:00 AM	0.0	0.026	0.000
11:06:00 AM	0.0	0.015	0.000
11:07:00 AM	0.0	0.024	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.2	0.023	0.000
11:10:00 AM	0.0	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:11:00 AM	0.0	0.023	0.000
11:12:00 AM	0.3	0.027	0.000
11:13:00 AM	0.0	0.021	0.000
11:14:00 AM	0.0	0.011	0.000
11:15:00 AM	0.0	0.010	0.000
11:16:00 AM	0.0	0.011	0.000
11:17:00 AM	0.0	0.019	0.000
11:18:00 AM	0.0	0.014	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.0	0.016	0.000
11:21:00 AM	0.0	0.028	0.000
11:22:00 AM	0.0	0.019	0.000
11:23:00 AM	0.0	0.024	0.000
11:24:00 AM	0.0	0.013	0.000
11:25:00 AM	0.0	0.009	0.000
11:26:00 AM	0.3	0.013	0.000
11:27:00 AM	1.2	0.014	0.000
11:28:00 AM	0.4	0.048	0.000
11:29:00 AM	0.0	0.024	0.000
11:30:00 AM	0.0	0.028	0.000
11:31:00 AM	0.0	0.039	0.000
11:32:00 AM	0.3	0.021	0.000
11:33:00 AM	0.3	0.035	0.000
11:34:00 AM	0.5	0.094	0.000
11:35:00 AM	0.6	0.065	0.000
11:36:00 AM	0.1	0.042	0.000
11:37:00 AM	0.0	0.024	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.013	0.000
11:40:00 AM	0.1	0.016	0.000
11:41:00 AM	0.0	0.024	0.000
11:42:00 AM	0.1	0.015	0.000
11:43:00 AM	0.0	0.046	0.000
11:44:00 AM	0.2	0.033	0.000
11:45:00 AM	0.3	0.042	0.000
11:46:00 AM	0.0	0.021	0.000
11:47:00 AM	0.0	0.021	0.000
11:48:00 AM	0.0	0.016	0.000
11:49:00 AM	0.0	0.008	0.000
11:50:00 AM	0.0	0.020	0.000
11:51:00 AM	0.0	0.012	0.000
11:52:00 AM	0.0	0.010	0.000
11:53:00 AM	0.8	0.012	0.000
11:54:00 AM	0.6	0.039	0.000
11:55:00 AM	0.0	0.017	0.000
11:56:00 AM	0.2	0.009	0.000
11:57:00 AM	0.9	0.041	0.000
11:58:00 AM	0.1	0.036	0.000
11:59:00 AM	0.0	0.015	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.0	0.010	0.000
12:02:00 PM	0.0	0.008	0.000
12:03:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:04:00 PM	0.1	0.009	0.000
12:05:00 PM	0.3	0.010	0.000
12:06:00 PM	0.0	0.008	0.000
12:07:00 PM	0.2	0.012	0.000
12:08:00 PM	0.0	0.012	0.000
12:09:00 PM	0.0	0.007	0.000
12:10:00 PM	0.0	0.011	0.000
12:11:00 PM	0.0	0.008	0.000
12:12:00 PM	0.0	0.010	0.000
12:13:00 PM	0.0	0.005	0.000
12:14:00 PM	0.0	0.006	0.000
12:15:00 PM	0.0	0.006	0.000
12:16:00 PM	0.0	0.006	0.000
12:17:00 PM	0.1	0.005	0.000
12:18:00 PM	0.0	0.006	0.000
12:19:00 PM	0.0	0.005	0.000
12:20:00 PM	0.0	0.006	0.000
12:21:00 PM	0.0	0.005	0.000
12:22:00 PM	0.0	0.006	0.000
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.007	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.005	0.000
12:29:00 PM	0.0	0.005	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.005	0.000
12:32:00 PM	0.0	0.005	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.005	0.000
12:36:00 PM	0.0	0.005	0.000
12:37:00 PM	0.0	0.008	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.005	0.000
12:40:00 PM	0.0	0.005	0.000
12:41:00 PM	0.0	0.005	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.005	0.000
12:45:00 PM	0.0	0.005	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.005	0.000
12:48:00 PM	0.0	0.005	0.000
12:49:00 PM	0.0	0.005	0.000
12:50:00 PM	0.0	0.005	0.000
12:51:00 PM	0.0	0.004	0.000
12:52:00 PM	0.0	0.004	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.0	0.004	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.004	0.000
12:59:00 PM	0.0	0.007	0.000
1:00:00 PM	0.0	0.005	0.000
1:01:00 PM	0.0	0.005	0.000
1:02:00 PM	0.1	0.010	0.000
1:03:00 PM	0.0	0.021	0.000
1:04:00 PM	0.0	0.020	0.000
1:05:00 PM	0.4	0.008	0.000
1:06:00 PM	0.0	0.009	0.000
1:07:00 PM	0.1	0.019	0.000
1:08:00 PM	0.3	0.019	0.000
1:09:00 PM	1.5	0.032	0.000
1:10:00 PM	0.2	0.053	0.000
1:11:00 PM	0.1	0.022	0.000
1:12:00 PM	0.1	0.008	0.000
1:13:00 PM	0.0	0.007	0.000
1:14:00 PM	0.4	0.015	0.000
1:15:00 PM	0.1	0.013	0.000
1:16:00 PM	0.0	0.011	0.000
1:17:00 PM	0.1	0.019	0.000
1:18:00 PM	0.0	0.033	0.000
1:19:00 PM	0.3	0.019	0.000
1:20:00 PM	0.0	0.029	0.000
1:21:00 PM	0.0	0.018	0.000
1:22:00 PM	0.0	0.018	0.000
1:23:00 PM	0.0	0.022	0.000
1:24:00 PM	0.0	0.013	0.000
1:25:00 PM	0.0	0.009	0.000
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.006	0.000
1:28:00 PM	0.0	0.007	0.000
1:29:00 PM	0.0	0.025	0.000
1:30:00 PM	0.0	0.021	0.000
1:31:00 PM	0.0	0.032	0.000
1:32:00 PM	0.0	0.014	0.000
1:33:00 PM	0.0	0.026	0.000
1:34:00 PM	0.0	0.011	0.000
1:35:00 PM	0.0	0.019	0.000
1:36:00 PM	0.0	0.018	0.000
1:37:00 PM	0.0	0.015	0.000
1:38:00 PM	0.0	0.012	0.000
1:39:00 PM	0.0	0.007	0.000
1:40:00 PM	0.0	0.015	0.000
1:41:00 PM	0.0	0.034	0.000
1:42:00 PM	0.0	0.020	0.000
1:43:00 PM	0.0	0.012	0.000
1:44:00 PM	0.0	0.026	0.000
1:45:00 PM	0.0	0.009	0.000
1:46:00 PM	0.0	0.006	0.000
1:47:00 PM	0.0	0.007	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:50:00 PM	0.0	0.011	0.000
1:51:00 PM	0.0	0.006	0.000
1:52:00 PM	0.0	0.011	0.000
1:53:00 PM	0.0	0.005	0.000
1:54:00 PM	0.0	0.015	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.0	0.016	0.000
1:57:00 PM	0.0	0.012	0.000
1:58:00 PM	0.0	0.008	0.000
1:59:00 PM	0.0	0.010	0.000
2:00:00 PM	0.0	0.013	0.000
2:01:00 PM	0.0	0.009	0.000
2:02:00 PM	0.0	0.014	0.000
2:03:00 PM	0.0	0.014	0.000
2:04:00 PM	0.0	0.011	0.000
2:05:00 PM	0.0	0.010	0.000
2:06:00 PM	0.0	0.010	0.000
2:07:00 PM	0.0	0.008	0.000
2:08:00 PM	0.0	0.015	0.000
2:09:00 PM	0.0	0.021	0.000
2:10:00 PM	0.0	0.026	0.000
2:11:00 PM	0.0	0.015	0.000
2:12:00 PM	0.0	0.013	0.000
2:13:00 PM	0.0	0.029	0.000
2:14:00 PM	0.0	0.040	0.000
2:15:00 PM	0.0	0.046	0.000
2:16:00 PM	0.0	0.021	0.000
2:17:00 PM	0.0	0.049	0.000
2:18:00 PM	0.0	0.037	0.000
2:19:00 PM	0.0	0.047	0.000
2:20:00 PM	0.0	0.031	0.000
2:21:00 PM	0.0	0.008	0.000
2:22:00 PM	0.0	0.008	0.000
2:23:00 PM	0.0	0.012	0.000
2:24:00 PM	0.0	0.009	0.000
2:25:00 PM	0.0	0.014	0.000
2:26:00 PM	0.0	0.016	0.000
2:27:00 PM	0.0	0.016	0.000
2:28:00 PM	0.0	0.006	0.000
2:29:00 PM	0.0	0.006	0.000
2:30:00 PM	0.0	0.012	0.000
2:31:00 PM	0.0	0.013	0.000
2:32:00 PM	0.0	0.005	0.000
2:33:00 PM	0.0	0.007	0.000
2:34:00 PM	0.0	0.005	0.000
2:35:00 PM	0.0	0.007	0.000
2:36:00 PM	0.0	0.009	0.000
2:37:00 PM	0.0	0.007	0.000
2:38:00 PM	0.0	0.006	0.000
2:39:00 PM	0.0	0.006	0.000
2:40:00 PM	0.0	0.006	0.000
2:41:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:14:00 AM	0.0	0.054	0.000
9:15:00 AM	0.0	0.038	0.000
9:16:00 AM	0.0	0.053	0.000
9:17:00 AM	0.0	0.048	0.000
9:18:00 AM	0.0	0.026	0.000
9:19:00 AM	0.0	0.016	0.000
9:20:00 AM	0.0	0.014	0.000
9:21:00 AM	0.0	0.014	0.000
9:22:00 AM	0.0	0.016	0.000
9:23:00 AM	0.0	0.016	0.000
9:24:00 AM	0.0	0.043	0.000
9:25:00 AM	0.0	0.044	0.000
9:26:00 AM	0.0	0.034	0.000
9:27:00 AM	0.0	0.030	0.000
9:28:00 AM	0.0	0.018	0.000
9:29:00 AM	0.0	0.025	0.000
9:30:00 AM	0.0	0.018	0.000
9:31:00 AM	0.0	0.018	0.000
9:32:00 AM	0.0	0.027	0.000
9:33:00 AM	0.0	0.019	0.000
9:34:00 AM	0.0	0.019	0.000
9:35:00 AM	0.0	0.019	0.000
9:36:00 AM	0.0	0.018	0.000
9:37:00 AM	0.0	0.017	0.000
9:38:00 AM	0.0	0.017	0.000
9:39:00 AM	0.0	0.020	0.000
9:40:00 AM	0.0	0.017	0.000
9:41:00 AM	0.0	0.017	0.000
9:42:00 AM	0.0	0.017	0.000
9:43:00 AM	0.0	0.017	0.000
9:44:00 AM	0.0	0.018	0.000
9:45:00 AM	0.0	0.019	0.000
9:46:00 AM	0.0	0.021	0.000
9:47:00 AM	0.0	0.018	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.017	0.000
9:50:00 AM	0.0	0.017	0.000
9:51:00 AM	0.0	0.016	0.000
9:52:00 AM	0.0	0.016	0.000
9:53:00 AM	0.0	0.016	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.020	0.000
9:56:00 AM	0.0	0.030	0.000
9:57:00 AM	0.0	0.032	0.000
9:58:00 AM	0.0	0.025	0.000
9:59:00 AM	0.0	0.034	0.000
10:00:00 AM	0.0	0.021	0.000
10:01:00 AM	0.0	0.040	0.000
10:02:00 AM	0.0	0.030	0.000
10:03:00 AM	0.0	0.023	0.000
10:04:00 AM	0.0	0.018	0.000
10:05:00 AM	0.0	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:06:00 AM	0.0	0.022	0.000
10:07:00 AM	0.1	0.034	0.000
10:08:00 AM	0.0	0.035	0.000
10:09:00 AM	0.0	0.013	0.000
10:10:00 AM	0.0	0.013	0.000
10:11:00 AM	0.0	0.023	0.000
10:12:00 AM	0.0	0.030	0.000
10:13:00 AM	0.0	0.019	0.000
10:14:00 AM	0.0	0.020	0.000
10:15:00 AM	0.0	0.023	0.000
10:16:00 AM	0.0	0.014	0.000
10:17:00 AM	0.0	0.010	0.000
10:18:00 AM	0.0	0.010	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.010	0.000
10:21:00 AM	0.0	0.010	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.010	0.000
10:24:00 AM	0.0	0.017	0.000
10:25:00 AM	0.0	0.020	0.000
10:26:00 AM	0.1	0.013	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.014	0.000
10:29:00 AM	0.0	0.013	0.000
10:30:00 AM	0.0	0.009	0.000
10:31:00 AM	0.0	0.020	0.000
10:32:00 AM	0.0	0.018	0.000
10:33:00 AM	0.0	0.015	0.000
10:34:00 AM	0.0	0.012	0.000
10:35:00 AM	0.0	0.008	0.000
10:36:00 AM	0.1	0.008	0.000
10:37:00 AM	0.1	0.010	0.000
10:38:00 AM	0.1	0.019	0.000
10:39:00 AM	0.1	0.036	0.000
10:40:00 AM	0.0	0.041	0.000
10:41:00 AM	0.1	0.031	0.000
10:42:00 AM	0.0	0.028	0.000
10:43:00 AM	0.0	0.010	0.000
10:44:00 AM	0.0	0.012	0.000
10:45:00 AM	0.0	0.017	0.000
10:46:00 AM	0.0	0.019	0.000
10:47:00 AM	0.0	0.012	0.000
10:48:00 AM	0.0	0.010	0.000
10:49:00 AM	0.1	0.011	0.000
10:50:00 AM	0.1	0.031	0.000
10:51:00 AM	0.1	0.044	0.000
10:52:00 AM	0.0	0.043	0.000
10:53:00 AM	0.1	0.024	0.000
10:54:00 AM	0.0	0.021	0.000
10:55:00 AM	0.0	0.037	0.000
10:56:00 AM	0.1	0.016	0.000
10:57:00 AM	0.0	0.031	0.000
10:58:00 AM	0.1	0.024	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:59:00 AM	0.1	0.025	0.000
11:00:00 AM	0.0	0.022	0.000
11:01:00 AM	0.1	0.011	0.000
11:02:00 AM	0.0	0.023	0.000
11:03:00 AM	0.1	0.028	0.000
11:04:00 AM	0.0	0.023	0.000
11:05:00 AM	0.0	0.029	0.000
11:06:00 AM	0.1	0.010	0.000
11:07:00 AM	0.1	0.035	0.000
11:08:00 AM	0.1	0.037	0.000
11:09:00 AM	0.1	0.034	0.000
11:10:00 AM	0.0	0.029	0.000
11:11:00 AM	0.0	0.020	0.000
11:12:00 AM	0.1	0.029	0.000
11:13:00 AM	0.1	0.010	0.000
11:14:00 AM	0.1	0.022	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.008	0.000
11:17:00 AM	0.1	0.011	0.000
11:18:00 AM	0.1	0.024	0.000
11:19:00 AM	0.1	0.052	0.000
11:20:00 AM	0.1	0.029	0.000
11:21:00 AM	0.1	0.026	0.000
11:22:00 AM	0.1	0.032	0.000
11:23:00 AM	0.0	0.011	0.000
11:24:00 AM	0.0	0.008	0.000
11:25:00 AM	0.1	0.008	0.000
11:26:00 AM	0.1	0.013	0.000
11:27:00 AM	0.1	0.021	0.000
11:28:00 AM	0.1	0.020	0.000
11:29:00 AM	0.1	0.017	0.000
11:30:00 AM	0.2	0.042	0.000
11:31:00 AM	0.1	0.042	0.000
11:32:00 AM	0.1	0.013	0.000
11:33:00 AM	0.1	0.014	0.000
11:34:00 AM	0.1	0.028	0.000
11:35:00 AM	0.1	0.020	0.000
11:36:00 AM	0.1	0.037	0.000
11:37:00 AM	0.1	0.030	0.000
11:38:00 AM	0.1	0.008	0.000
11:39:00 AM	0.0	0.021	0.000
11:40:00 AM	0.1	0.008	0.000
11:41:00 AM	0.1	0.007	0.000
11:42:00 AM	0.1	0.007	0.000
11:43:00 AM	0.1	0.022	0.000
11:44:00 AM	0.1	0.033	0.000
11:45:00 AM	0.1	0.031	0.000
11:46:00 AM	0.1	0.008	0.000
11:47:00 AM	0.1	0.019	0.000
11:48:00 AM	0.1	0.015	0.000
11:49:00 AM	0.1	0.009	0.000
11:50:00 AM	0.1	0.042	0.000
11:51:00 AM	0.1	0.025	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:52:00 AM	0.1	0.016	0.000
11:53:00 AM	0.1	0.020	0.000
11:54:00 AM	0.1	0.021	0.000
11:55:00 AM	0.1	0.040	0.000
11:56:00 AM	0.1	0.010	0.000
11:57:00 AM	0.1	0.011	0.000
11:58:00 AM	0.1	0.016	0.000
11:59:00 AM	0.1	0.018	0.000
12:00:00 PM	0.1	0.012	0.000
12:01:00 PM	0.1	0.007	0.000
12:02:00 PM	0.1	0.006	0.000
12:03:00 PM	0.1	0.006	0.000
12:04:00 PM	0.1	0.007	0.000
12:05:00 PM	0.1	0.008	0.000
12:06:00 PM	0.1	0.006	0.000
12:07:00 PM	0.1	0.006	0.000
12:08:00 PM	0.1	0.006	0.000
12:09:00 PM	0.1	0.010	0.000
12:10:00 PM	0.1	0.009	0.000
12:11:00 PM	0.1	0.010	0.000
12:12:00 PM	0.1	0.005	0.000
12:13:00 PM	0.1	0.006	0.000
12:14:00 PM	0.1	0.006	0.000
12:15:00 PM	0.1	0.006	0.000
12:16:00 PM	0.1	0.006	0.000
12:17:00 PM	0.1	0.006	0.000
12:18:00 PM	0.1	0.007	0.000
12:19:00 PM	0.1	0.006	0.000
12:20:00 PM	0.1	0.006	0.000
12:21:00 PM	0.1	0.006	0.000
12:22:00 PM	0.1	0.006	0.000
12:23:00 PM	0.1	0.006	0.000
12:24:00 PM	0.1	0.006	0.000
12:25:00 PM	0.1	0.006	0.000
12:26:00 PM	0.1	0.005	0.000
12:27:00 PM	0.1	0.006	0.000
12:28:00 PM	0.1	0.005	0.000
12:29:00 PM	0.1	0.005	0.000
12:30:00 PM	0.1	0.007	0.000
12:31:00 PM	0.1	0.006	0.000
12:32:00 PM	0.1	0.006	0.000
12:33:00 PM	0.1	0.005	0.000
12:34:00 PM	0.1	0.005	0.000
12:35:00 PM	0.1	0.005	0.000
12:36:00 PM	0.1	0.006	0.000
12:37:00 PM	0.1	0.006	0.000
12:38:00 PM	0.1	0.006	0.000
12:39:00 PM	0.1	0.006	0.000
12:40:00 PM	0.1	0.006	0.000
12:41:00 PM	0.1	0.006	0.000
12:42:00 PM	0.1	0.005	0.000
12:43:00 PM	0.1	0.005	0.000
12:44:00 PM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:45:00 PM	0.1	0.005	0.000
12:46:00 PM	0.1	0.005	0.000
12:47:00 PM	0.1	0.005	0.000
12:48:00 PM	0.1	0.005	0.000
12:49:00 PM	0.1	0.005	0.000
12:50:00 PM	0.1	0.005	0.000
12:51:00 PM	0.1	0.005	0.000
12:52:00 PM	0.1	0.004	0.000
12:53:00 PM	0.1	0.004	0.000
12:54:00 PM	0.1	0.004	0.000
12:55:00 PM	0.1	0.005	0.000
12:56:00 PM	0.1	0.005	0.000
12:57:00 PM	0.1	0.004	0.000
12:58:00 PM	0.1	0.005	0.000
12:59:00 PM	0.1	0.004	0.000
1:00:00 PM	0.1	0.005	0.000
1:01:00 PM	0.1	0.004	0.000
1:02:00 PM	0.1	0.004	0.000
1:03:00 PM	0.1	0.004	0.000
1:04:00 PM	0.1	0.004	0.000
1:05:00 PM	0.1	0.004	0.000
1:06:00 PM	0.1	0.005	0.000
1:07:00 PM	0.1	0.005	0.000
1:08:00 PM	0.1	0.006	0.000
1:09:00 PM	0.1	0.015	0.000
1:10:00 PM	0.1	0.011	0.000
1:11:00 PM	0.1	0.021	0.000
1:12:00 PM	0.1	0.010	0.000
1:13:00 PM	0.1	0.012	0.000
1:14:00 PM	0.1	0.027	0.000
1:15:00 PM	0.2	0.010	0.000
1:16:00 PM	0.1	0.030	0.000
1:17:00 PM	0.1	0.046	0.000
1:18:00 PM	0.1	0.023	0.000
1:19:00 PM	0.1	0.004	0.000
1:20:00 PM	0.1	0.006	0.000
1:21:00 PM	0.1	0.005	0.000
1:22:00 PM	0.1	0.005	0.000
1:23:00 PM	0.1	0.004	0.000
1:24:00 PM	0.1	0.005	0.000
1:25:00 PM	0.1	0.006	0.000
1:26:00 PM	0.1	0.014	0.000
1:27:00 PM	0.1	0.007	0.000
1:28:00 PM	0.1	0.007	0.000
1:29:00 PM	0.1	0.006	0.000
1:30:00 PM	0.1	0.016	0.000
1:31:00 PM	0.1	0.009	0.000
1:32:00 PM	0.1	0.013	0.000
1:33:00 PM	0.1	0.009	0.000
1:34:00 PM	0.1	0.009	0.000
1:35:00 PM	0.1	0.006	0.000
1:36:00 PM	0.1	0.004	0.000
1:37:00 PM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:38:00 PM	0.1	0.004	0.000
1:39:00 PM	0.1	0.015	0.000
1:40:00 PM	0.1	0.013	0.000
1:41:00 PM	0.1	0.012	0.000
1:42:00 PM	0.1	0.020	0.000
1:43:00 PM	0.1	0.006	0.000
1:44:00 PM	0.1	0.007	0.000
1:45:00 PM	0.1	0.020	0.000
1:46:00 PM	0.1	0.015	0.000
1:47:00 PM	0.1	0.013	0.000
1:48:00 PM	0.1	0.022	0.000
1:49:00 PM	0.1	0.018	0.000
1:50:00 PM	0.1	0.008	0.000
1:51:00 PM	0.1	0.011	0.000
1:52:00 PM	0.1	0.005	0.000
1:53:00 PM	0.1	0.018	0.000
1:54:00 PM	0.1	0.008	0.000
1:55:00 PM	0.1	0.008	0.000
1:56:00 PM	0.1	0.013	0.000
1:57:00 PM	0.1	0.011	0.000
1:58:00 PM	0.1	0.016	0.000
1:59:00 PM	0.1	0.020	0.000
2:00:00 PM	0.1	0.070	0.000
2:01:00 PM	0.1	0.020	0.000
2:02:00 PM	0.1	0.019	0.000
2:03:00 PM	0.1	0.014	0.000
2:04:00 PM	0.1	0.016	0.000
2:05:00 PM	0.1	0.005	0.000
2:06:00 PM	0.1	0.005	0.000
2:07:00 PM	0.1	0.005	0.000
2:08:00 PM	0.1	0.006	0.000
2:09:00 PM	0.1	0.009	0.000
2:10:00 PM	0.1	0.008	0.000
2:11:00 PM	0.1	0.006	0.000
2:12:00 PM	0.1	0.005	0.000
2:13:00 PM	0.1	0.010	0.000
2:14:00 PM	0.1	0.007	0.000
2:15:00 PM	0.2	0.011	0.000
2:16:00 PM	0.1	0.016	0.000
2:17:00 PM	0.1	0.016	0.000
2:18:00 PM	0.1	0.027	0.000
2:19:00 PM	0.1	0.016	0.000
2:20:00 PM	0.2	0.029	0.000
2:21:00 PM	0.1	0.037	0.000
2:22:00 PM	0.1	0.006	0.000
2:23:00 PM	0.1	0.007	0.000
2:24:00 PM	0.1	0.005	0.000
2:25:00 PM	0.1	0.006	0.000
2:26:00 PM	0.1	0.018	0.000
2:27:00 PM	0.1	0.008	0.000
2:28:00 PM	0.1	0.009	0.000
2:29:00 PM	0.1	0.008	0.000
2:30:00 PM	0.1	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
December 30, 2020

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:31:00 PM	0.1	0.015	0.000
2:32:00 PM	0.1	0.005	0.000
2:33:00 PM	0.1	0.006	0.000
2:34:00 PM	0.1	0.008	0.000
2:35:00 PM	0.1	0.007	0.000
2:36:00 PM	0.1	0.006	0.000
2:37:00 PM	0.1	0.005	0.000
2:38:00 PM	0.1	0.006	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~10 mph	Date:	12/31/20
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15. X-Ray utility locating onsite to trace pathway of damaged cable within excavation area in area #4. X-ray determined that cable within excavation runs toward telephone pole currently holding fiber optic signaling cable. Cables stop approximately eight (8) feet northeast from excavation. X-ray also determines that two hoses exiting vault are sump hoses connected to a pump with in the vault. Aarco conducting exploratory excavations for utilities within the next area to be excavated.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Continue to excavate area #4.



X-Ray attaching leads to damaged cable.



X-Ray determining endpoint for cables.



Disinfecting commonly used tools.



Aarco removing ballast to conduct limited excavation for utility locating.

Monitoring Locations

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~ 10 mph	Date:	1/4/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues excavating area #4. All soils going onto the stockpile within the stockpile area. Aarco loading out soils for transport to Clean Earth Carteret (CEC) for disposal. Two truckloads of soils from area #3 and #4 are transported to CEC. Preferred screening soils for VOCs and Mercury vapor, field screening of soils did not return results above background levels of 0.000 mg/m3 and 0.0 PPM. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.4	0.007	0.000	0.6	0.014	0.000
Down Wind	0.2	0.015	0.000	0.2	0.082	0.000
Work Zone	0.1	0.006	0.000	0.1	0.015	0.000

Exceedances (Since Last Report): None

Problems Encountered: Battery for DW camp monitoring station dies at 1310, station stops recording. Pine will replace battery tomorrow.

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco loading out soils for transport to Clean Earth.



Preferred screening soils for VOCs and mercury.

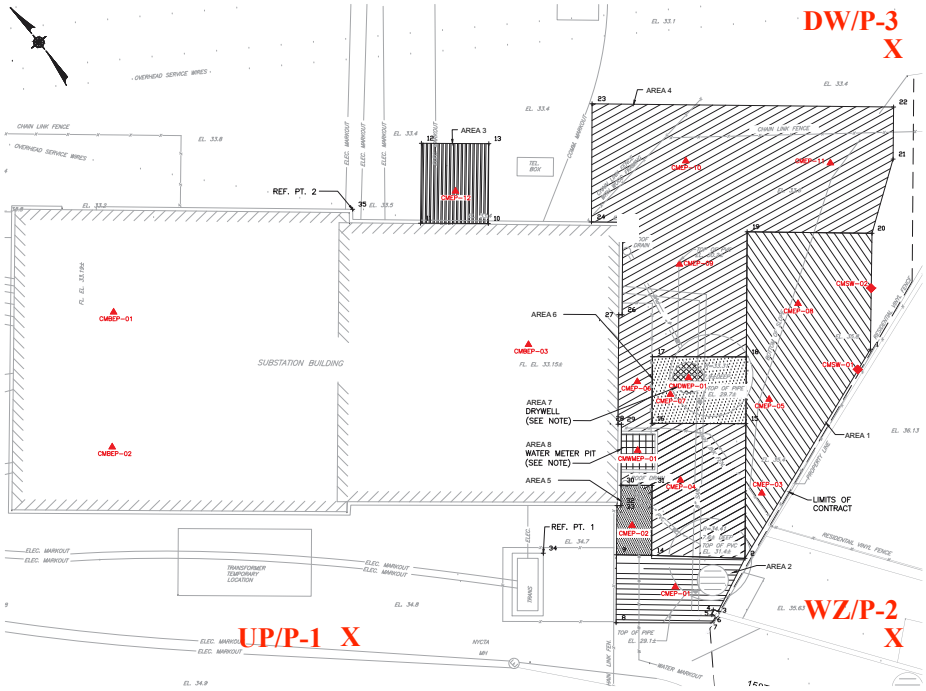


Hand digging to expose utilities.



View of the excavation at the end of the day.

Monitoring Locations



Monitoring Locations

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:32:00 AM	0.0		0.000
9:33:00 AM	0.0	0.017	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.0	0.015	0.000
9:36:00 AM	0.0	0.015	0.000
9:37:00 AM	0.0	0.014	0.000
9:38:00 AM	0.0	0.015	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.014	0.000
9:41:00 AM	0.0	0.014	0.000
9:42:00 AM	0.0	0.014	0.000
9:43:00 AM	0.0	0.013	0.000
9:44:00 AM	0.0	0.014	0.000
9:45:00 AM	0.0	0.014	0.000
9:46:00 AM	0.0	0.013	0.000
9:47:00 AM	0.0	0.013	0.000
9:48:00 AM	0.0	0.014	0.000
9:49:00 AM	0.0	0.016	0.000
9:50:00 AM	0.0	0.014	0.000
9:51:00 AM	0.0	0.013	0.000
9:52:00 AM	0.0	0.013	0.000
9:53:00 AM	0.0	0.012	0.000
9:54:00 AM	0.0	0.012	0.000
9:55:00 AM	0.0	0.011	0.000
9:56:00 AM	0.1	0.011	0.000
9:57:00 AM	0.0	0.011	0.000
9:58:00 AM	0.0	0.011	0.000
9:59:00 AM	0.0	0.012	0.000
10:00:00 AM	0.1	0.013	0.000
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.0	0.011	0.000
10:03:00 AM	0.1	0.011	0.000
10:04:00 AM	0.1	0.011	0.000
10:05:00 AM	0.0	0.010	0.000
10:06:00 AM	0.1	0.011	0.000
10:07:00 AM	0.1	0.011	0.000
10:08:00 AM	0.0	0.010	0.000
10:09:00 AM	0.1	0.011	0.000
10:10:00 AM	0.1	0.010	0.000
10:11:00 AM	0.1	0.011	0.000
10:12:00 AM	0.1	0.011	0.000
10:13:00 AM	0.1	0.011	0.000
10:14:00 AM	0.1	0.011	0.000
10:15:00 AM	0.1	0.011	0.000
10:16:00 AM	0.1	0.010	0.000
10:17:00 AM	0.1	0.010	0.000
10:18:00 AM	0.1	0.010	0.000
10:19:00 AM	0.1	0.010	0.000
10:20:00 AM	0.1	0.010	0.000
10:21:00 AM	0.1	0.010	0.000
10:22:00 AM	0.1	0.009	0.000
10:23:00 AM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:24:00 AM	0.1	0.009	0.000
10:25:00 AM	0.1	0.010	0.000
10:26:00 AM	0.2	0.009	0.000
10:27:00 AM	0.3	0.010	0.000
10:28:00 AM	0.2	0.011	0.000
10:29:00 AM	0.2	0.010	0.000
10:30:00 AM	0.3	0.010	0.000
10:31:00 AM	0.2	0.010	0.000
10:32:00 AM	0.2	0.011	0.000
10:33:00 AM	0.2	0.010	0.000
10:34:00 AM	0.2	0.009	0.000
10:35:00 AM	0.2	0.009	0.000
10:36:00 AM	0.2	0.009	0.000
10:37:00 AM	0.2	0.008	0.000
10:38:00 AM	0.2	0.009	0.000
10:39:00 AM	0.2	0.008	0.000
10:40:00 AM	0.2	0.008	0.000
10:41:00 AM	0.2	0.008	0.000
10:42:00 AM	0.2	0.008	0.000
10:43:00 AM	0.2	0.008	0.000
10:44:00 AM	0.3	0.008	0.000
10:45:00 AM	0.2	0.008	0.000
10:46:00 AM	0.3	0.008	0.000
10:47:00 AM	0.3	0.008	0.000
10:48:00 AM	0.3	0.008	0.000
10:49:00 AM	0.3	0.007	0.000
10:50:00 AM	0.3	0.007	0.000
10:51:00 AM	0.2	0.007	0.000
10:52:00 AM	0.3	0.007	0.000
10:53:00 AM	0.2	0.007	0.000
10:54:00 AM	0.3	0.007	0.000
10:55:00 AM	0.3	0.007	0.000
10:56:00 AM	0.3	0.007	0.000
10:57:00 AM	0.3	0.008	0.000
10:58:00 AM	0.3	0.007	0.000
10:59:00 AM	0.3	0.008	0.000
11:00:00 AM	0.4	0.008	0.000
11:01:00 AM	0.3	0.007	0.000
11:02:00 AM	0.3	0.007	0.000
11:03:00 AM	0.3	0.006	0.000
11:04:00 AM	0.3	0.007	0.000
11:05:00 AM	0.4	0.007	0.000
11:06:00 AM	0.3	0.007	0.000
11:07:00 AM	0.3	0.007	0.000
11:08:00 AM	0.3	0.006	0.000
11:09:00 AM	0.4	0.006	0.000
11:10:00 AM	0.3	0.006	0.000
11:11:00 AM	0.3	0.007	0.000
11:12:00 AM	0.3	0.007	0.000
11:13:00 AM	0.3	0.007	0.000
11:14:00 AM	0.3	0.008	0.000
11:15:00 AM	0.3	0.008	0.000
11:16:00 AM	0.4	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:17:00 AM	0.3	0.006	0.000
11:18:00 AM	0.3	0.006	0.000
11:19:00 AM	0.3	0.007	0.000
11:20:00 AM	0.3	0.006	0.000
11:21:00 AM	0.4	0.006	0.000
11:22:00 AM	0.3	0.006	0.000
11:23:00 AM	0.3	0.006	0.000
11:24:00 AM	0.3	0.006	0.000
11:25:00 AM	0.5	0.006	0.000
11:26:00 AM	0.4	0.007	0.000
11:27:00 AM	0.4	0.007	0.000
11:28:00 AM	0.4	0.007	0.000
11:29:00 AM	0.4	0.007	0.000
11:30:00 AM	0.4	0.006	0.000
11:31:00 AM	0.4	0.006	0.000
11:32:00 AM	0.4	0.006	0.000
11:33:00 AM	0.4	0.008	0.000
11:34:00 AM	0.4	0.011	0.000
11:35:00 AM	0.4	0.006	0.000
11:36:00 AM	0.4	0.006	0.000
11:37:00 AM	0.4	0.006	0.000
11:38:00 AM	0.4	0.006	0.000
11:39:00 AM	0.4	0.006	0.000
11:40:00 AM	0.4	0.006	0.000
11:41:00 AM	0.4	0.005	0.000
11:42:00 AM	0.4	0.005	0.000
11:43:00 AM	0.4	0.005	0.000
11:44:00 AM	0.4	0.005	0.000
11:45:00 AM	0.4	0.005	0.000
11:46:00 AM	0.4	0.004	0.000
11:47:00 AM	0.4	0.005	0.000
11:48:00 AM	0.4	0.005	0.000
11:49:00 AM	0.4	0.005	0.000
11:50:00 AM	0.4	0.004	0.000
11:51:00 AM	0.4	0.004	0.000
11:52:00 AM	0.4	0.004	0.000
11:53:00 AM	0.4	0.004	0.000
11:54:00 AM	0.4	0.005	0.000
11:55:00 AM	0.4	0.004	0.000
11:56:00 AM	0.4	0.004	0.000
11:57:00 AM	0.4	0.004	0.000
11:58:00 AM	0.4	0.004	0.000
11:59:00 AM	0.5	0.004	0.000
12:00:00 PM	0.5	0.004	0.000
12:01:00 PM	0.4	0.004	0.000
12:02:00 PM	0.5	0.004	0.000
12:03:00 PM	0.5	0.005	0.000
12:04:00 PM	0.5	0.005	0.000
12:05:00 PM	0.6	0.005	0.000
12:06:00 PM	0.5	0.005	0.000
12:07:00 PM	0.4	0.005	0.000
12:08:00 PM	0.5	0.004	0.000
12:09:00 PM	0.5	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:10:00 PM	0.5	0.004	0.000
12:11:00 PM	0.5	0.004	0.000
12:12:00 PM	0.5	0.004	0.000
12:13:00 PM	0.5	0.004	0.000
12:14:00 PM	0.5	0.005	0.000
12:15:00 PM	0.5	0.004	0.000
12:16:00 PM	0.5	0.004	0.000
12:17:00 PM	0.5	0.004	0.000
12:18:00 PM	0.5	0.003	0.000
12:19:00 PM	0.5	0.004	0.000
12:20:00 PM	0.5	0.003	0.000
12:21:00 PM	0.5	0.003	0.000
12:22:00 PM	0.5	0.004	0.000
12:23:00 PM	0.5	0.004	0.000
12:24:00 PM	0.5	0.004	0.000
12:25:00 PM	0.5	0.004	0.000
12:26:00 PM	0.5	0.004	0.000
12:27:00 PM	0.5	0.004	0.000
12:28:00 PM	0.5	0.004	0.000
12:29:00 PM	0.5	0.003	0.000
12:30:00 PM	0.5	0.004	0.000
12:31:00 PM	0.5	0.003	0.000
12:32:00 PM	0.5	0.004	0.000
12:33:00 PM	0.5	0.004	0.000
12:34:00 PM	0.5	0.004	0.000
12:35:00 PM	0.5	0.004	0.000
12:36:00 PM	0.5	0.003	0.000
12:37:00 PM	0.5	0.003	0.000
12:38:00 PM	0.5	0.003	0.000
12:39:00 PM	0.5	0.003	0.000
12:40:00 PM	0.5	0.003	0.000
12:41:00 PM	0.6	0.003	0.000
12:42:00 PM	0.5	0.004	0.000
12:43:00 PM	0.5	0.004	0.000
12:44:00 PM	0.5	0.004	0.000
12:45:00 PM	0.5	0.004	0.000
12:46:00 PM	0.5	0.004	0.000
12:47:00 PM	0.5	0.004	0.000
12:48:00 PM	0.5	0.003	0.000
12:49:00 PM	0.5	0.004	0.000
12:50:00 PM	0.5	0.004	0.000
12:51:00 PM	0.5	0.003	0.000
12:52:00 PM	0.5	0.004	0.000
12:53:00 PM	0.5	0.004	0.000
12:54:00 PM	0.5	0.004	0.000
12:55:00 PM	0.5	0.003	0.000
12:56:00 PM	0.5	0.004	0.000
12:57:00 PM	0.5	0.004	0.000
12:58:00 PM	0.5	0.004	0.000
12:59:00 PM	0.6	0.004	0.000
1:00:00 PM	0.5	0.004	0.000
1:01:00 PM	0.6	0.004	0.000
1:02:00 PM	0.5	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:03:00 PM	0.5	0.004	0.000
1:04:00 PM	0.5	0.004	0.000
1:05:00 PM	0.5	0.005	0.000
1:06:00 PM	0.6	0.005	0.000
1:07:00 PM	0.6	0.004	0.000
1:08:00 PM	0.6	0.005	0.000
1:09:00 PM	0.6	0.004	0.000
1:10:00 PM	0.6	0.004	0.000
1:11:00 PM	0.5	0.005	0.000
1:12:00 PM	0.5	0.004	0.000
1:13:00 PM	0.5	0.004	0.000
1:14:00 PM	0.6	0.004	0.000
1:15:00 PM	0.6	0.005	0.000
1:16:00 PM	0.6	0.005	0.000
1:17:00 PM	0.6	0.004	0.000
1:18:00 PM	0.6	0.005	0.000
1:19:00 PM	0.6	0.004	0.000
1:20:00 PM	0.6	0.005	0.000
1:21:00 PM	0.6	0.005	0.000
1:22:00 PM	0.6	0.005	0.000
1:23:00 PM	0.6	0.005	0.000
1:24:00 PM	0.6	0.005	0.000
1:25:00 PM	0.6	0.005	0.000
1:26:00 PM	0.6	0.005	0.000
1:27:00 PM	0.6	0.006	0.000
1:28:00 PM	0.6	0.005	0.000
1:29:00 PM	0.6	0.005	0.000
1:30:00 PM	0.6	0.006	0.000
1:31:00 PM	0.6	0.007	0.000
1:32:00 PM	0.6	0.006	0.000
1:33:00 PM	0.6	0.007	0.000
1:34:00 PM	0.6	0.008	0.000
1:35:00 PM	0.6	0.007	0.000
1:36:00 PM	0.6	0.008	0.000
1:37:00 PM	0.6	0.008	0.000
1:38:00 PM	0.6	0.008	0.000
1:39:00 PM	0.6	0.006	0.000
1:40:00 PM	0.6	0.006	0.000
1:41:00 PM	0.6	0.005	0.000
1:42:00 PM	0.6	0.006	0.000
1:43:00 PM	0.6	0.006	0.000
1:44:00 PM	0.6	0.006	0.000
1:45:00 PM	0.6	0.006	0.000
1:46:00 PM	0.6	0.006	0.000
1:47:00 PM	0.6	0.006	0.000
1:48:00 PM	0.6	0.007	0.000
1:49:00 PM	0.6	0.009	0.000
1:50:00 PM	0.6	0.009	0.000
1:51:00 PM	0.6	0.010	0.000
1:52:00 PM	0.6	0.011	0.000
1:53:00 PM	0.6	0.006	0.000
1:54:00 PM	0.6	0.006	0.000
1:55:00 PM	0.6	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:56:00 PM	0.6	0.005	0.000
1:57:00 PM	0.6	0.006	0.000
1:58:00 PM	0.6	0.006	0.000
1:59:00 PM	0.6	0.006	0.000
2:00:00 PM	0.6	0.006	0.000
2:01:00 PM	0.6	0.007	0.000
2:02:00 PM	0.6	0.006	0.000
2:03:00 PM	0.6	0.006	0.000
2:04:00 PM	0.6	0.006	0.000
2:05:00 PM	0.6	0.005	0.000
2:06:00 PM	0.6	0.005	0.000
2:07:00 PM	0.6	0.005	0.000
2:08:00 PM	0.6	0.006	0.000
2:09:00 PM	0.6	0.006	0.000
2:10:00 PM	0.6	0.007	0.000
2:11:00 PM	0.6	0.007	0.000
2:12:00 PM	0.6	0.006	0.000
2:13:00 PM	0.6	0.007	0.000
2:14:00 PM	0.6	0.006	0.000
2:15:00 PM	0.6	0.006	0.000
2:16:00 PM	0.6	0.006	0.000
2:17:00 PM	0.6	0.006	0.000
2:18:00 PM	0.6	0.007	0.000
2:19:00 PM	0.6	0.008	0.000
2:20:00 PM	0.7	0.009	0.000
2:21:00 PM	0.6	0.010	0.000
2:22:00 PM	0.7	0.011	0.000
2:23:00 PM	0.7	0.012	0.000
2:24:00 PM	0.7	0.012	0.000
2:25:00 PM	0.7	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:40:00 AM		0.018	
9:42:00 AM	0.0	0.015	
9:43:00 AM	0.0	0.016	0.000
9:44:00 AM	0.0	0.016	0.000
9:45:00 AM	0.0	0.016	0.000
9:46:00 AM	0.0	0.015	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.015	0.000
9:49:00 AM	0.0	0.016	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.016	0.000
9:52:00 AM	0.0	0.015	0.000
9:53:00 AM	0.0	0.013	0.000
9:54:00 AM	0.0	0.014	0.000
9:55:00 AM	0.0	0.012	0.000
9:56:00 AM	0.1	0.015	0.000
9:57:00 AM	0.6	0.019	0.000
9:58:00 AM	0.1	0.012	0.000
9:59:00 AM	0.1	0.015	0.000
10:00:00 AM	0.2	0.015	0.000
10:01:00 AM	0.1	0.013	0.000
10:02:00 AM	0.2	0.013	0.000
10:03:00 AM	0.1	0.012	0.000
10:04:00 AM	0.1	0.012	0.000
10:05:00 AM	0.1	0.012	0.000
10:06:00 AM	0.1	0.011	0.000
10:07:00 AM	0.1	0.013	0.000
10:08:00 AM	0.1	0.012	0.000
10:09:00 AM	0.1	0.012	0.000
10:10:00 AM	0.1	0.011	0.000
10:11:00 AM	0.1	0.011	0.000
10:12:00 AM	0.1	0.012	0.000
10:13:00 AM	0.1	0.012	0.000
10:14:00 AM	0.1	0.012	0.000
10:15:00 AM	0.1	0.012	0.000
10:16:00 AM	0.1	0.012	0.000
10:17:00 AM	0.1	0.011	0.000
10:18:00 AM	0.1	0.011	0.000
10:19:00 AM	0.1	0.011	0.000
10:20:00 AM	0.1	0.010	0.000
10:21:00 AM	0.1	0.010	0.000
10:22:00 AM	0.1	0.010	0.000
10:23:00 AM	0.1	0.010	0.000
10:24:00 AM	0.1	0.010	0.000
10:25:00 AM	0.1	0.010	0.000
10:26:00 AM	0.1	0.014	0.000
10:27:00 AM	0.1	0.010	0.000
10:28:00 AM	0.1	0.012	0.000
10:29:00 AM	0.1	0.010	0.000
10:30:00 AM	0.1	0.010	0.000
10:31:00 AM	0.1	0.012	0.000
10:32:00 AM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:33:00 AM	0.1	0.012	0.000
10:34:00 AM	0.1	0.010	0.000
10:35:00 AM	0.1	0.010	0.000
10:36:00 AM	0.1	0.009	0.000
10:37:00 AM	0.1	0.010	0.000
10:38:00 AM	0.1	0.013	0.000
10:39:00 AM	0.1	0.018	0.000
10:40:00 AM	0.1	0.008	0.000
10:41:00 AM	0.1	0.010	0.000
10:42:00 AM	0.1	0.008	0.000
10:43:00 AM	0.1	0.008	0.000
10:44:00 AM	0.1	0.008	0.000
10:45:00 AM	0.1	0.009	0.000
10:46:00 AM	0.1	0.007	0.000
10:47:00 AM	0.1	0.008	0.000
10:48:00 AM	0.1	0.014	0.000
10:49:00 AM	0.1	0.010	0.000
10:50:00 AM	0.1	0.007	0.000
10:51:00 AM	0.1	0.007	0.000
10:52:00 AM	0.1	0.012	0.000
10:53:00 AM	0.1	0.008	0.000
10:54:00 AM	0.1	0.007	0.000
10:55:00 AM	0.1	0.007	0.000
10:56:00 AM	0.1	0.007	0.000
10:57:00 AM	0.1	0.015	0.000
10:58:00 AM	0.1	0.008	0.000
10:59:00 AM	0.1	0.007	0.000
11:00:00 AM	0.1	0.009	0.000
11:01:00 AM	0.1	0.006	0.000
11:02:00 AM	0.1	0.006	0.000
11:03:00 AM	0.1	0.006	0.000
11:04:00 AM	0.1	0.006	0.000
11:05:00 AM	0.1	0.006	0.000
11:06:00 AM	0.1	0.005	0.000
11:07:00 AM	0.1	0.005	0.000
11:08:00 AM	0.1	0.006	0.000
11:09:00 AM	0.1	0.006	0.000
11:10:00 AM	0.1	0.006	0.000
11:11:00 AM	0.1	0.006	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.006	0.000
11:14:00 AM	0.1	0.006	0.000
11:15:00 AM	0.1	0.008	0.000
11:16:00 AM	0.1	0.005	0.000
11:17:00 AM	0.1	0.005	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.006	0.000
11:20:00 AM	0.1	0.007	0.000
11:21:00 AM	0.1	0.005	0.000
11:22:00 AM	0.1	0.006	0.000
11:23:00 AM	0.1	0.005	0.000
11:24:00 AM	0.1	0.004	0.000
11:25:00 AM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:26:00 AM	0.1	0.006	0.000
11:27:00 AM	0.1	0.004	0.000
11:28:00 AM	0.1	0.005	0.000
11:29:00 AM	0.1	0.004	0.000
11:30:00 AM	0.1	0.004	0.000
11:31:00 AM	0.1	0.004	0.000
11:32:00 AM	0.1	0.004	0.000
11:33:00 AM	0.1	0.004	0.000
11:34:00 AM	0.1	0.004	0.000
11:35:00 AM	0.1	0.005	0.000
11:36:00 AM	0.1	0.004	0.000
11:37:00 AM	0.1	0.004	0.000
11:38:00 AM	0.1	0.004	0.000
11:39:00 AM	0.1	0.004	0.000
11:40:00 AM	0.1	0.004	0.000
11:41:00 AM	0.1	0.003	0.000
11:42:00 AM	0.1	0.003	0.000
11:43:00 AM	0.1	0.003	0.000
11:44:00 AM	0.1	0.004	0.000
11:45:00 AM	0.1	0.004	0.000
11:46:00 AM	0.1	0.004	0.000
11:47:00 AM	0.1	0.004	0.000
11:48:00 AM	0.1	0.004	0.000
11:49:00 AM	0.1	0.004	0.000
11:50:00 AM	0.1	0.003	0.000
11:51:00 AM	0.1	0.003	0.000
11:52:00 AM	0.1	0.003	0.000
11:53:00 AM	0.1	0.004	0.000
11:54:00 AM	0.1	0.004	0.000
11:55:00 AM	0.1	0.004	0.000
11:56:00 AM	0.1	0.006	0.000
11:57:00 AM	0.1	0.003	0.000
11:58:00 AM	0.1	0.002	0.000
11:59:00 AM	0.1	0.003	0.000
12:00:00 PM	0.1	0.003	0.000
12:01:00 PM	0.1	0.003	0.000
12:02:00 PM	0.1	0.003	0.000
12:03:00 PM	0.1	0.004	0.000
12:04:00 PM	0.1	0.003	0.000
12:05:00 PM	0.1	0.004	0.000
12:06:00 PM	0.1	0.004	0.000
12:07:00 PM	0.1	0.003	0.000
12:08:00 PM	0.1	0.002	0.000
12:09:00 PM	0.1	0.003	0.000
12:10:00 PM	0.1	0.002	0.000
12:11:00 PM	0.1	0.002	0.000
12:12:00 PM	0.1	0.003	0.000
12:13:00 PM	0.1	0.003	0.000
12:14:00 PM	0.1	0.003	0.000
12:15:00 PM	0.1	0.002	0.000
12:16:00 PM	0.1	0.003	0.000
12:17:00 PM	0.1	0.002	0.000
12:18:00 PM	0.1	0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:19:00 PM	0.1	0.002	0.000
12:20:00 PM	0.1	0.001	0.000
12:21:00 PM	0.1	0.000	0.000
12:22:00 PM	0.1	0.000	0.000
12:23:00 PM	0.1	0.000	0.000
12:24:00 PM	0.1	0.000	0.000
12:25:00 PM	0.1	0.000	0.000
12:26:00 PM	0.1	0.000	0.000
12:27:00 PM	0.1	0.001	0.000
12:28:00 PM	0.1	0.001	0.000
12:29:00 PM	0.1	0.000	0.000
12:30:00 PM	0.1	0.000	0.000
12:31:00 PM	0.1	0.002	0.000
12:32:00 PM	0.1	0.000	0.000
12:33:00 PM	0.1	0.001	0.000
12:34:00 PM	0.1	0.001	0.000
12:35:00 PM	0.1	0.001	0.000
12:36:00 PM	0.1	0.001	0.000
12:37:00 PM	0.1	0.001	0.000
12:38:00 PM	0.1	0.001	0.000
12:39:00 PM	0.1	0.001	0.000
12:40:00 PM	0.1	0.001	0.000
12:41:00 PM	0.1	0.001	0.000
12:42:00 PM	0.1	0.001	0.000
12:43:00 PM	0.1	0.001	0.000
12:44:00 PM	0.1	0.001	0.000
12:45:00 PM	0.1	0.001	0.000
12:46:00 PM	0.1	0.001	0.000
12:47:00 PM	0.1	0.001	0.000
12:48:00 PM	0.1	0.001	0.000
12:49:00 PM	0.1	0.001	0.000
12:50:00 PM	0.1	0.001	0.000
12:51:00 PM	0.1	0.001	0.000
12:52:00 PM	0.1	0.001	0.000
12:53:00 PM	0.1	0.001	0.000
12:54:00 PM	0.1	0.001	0.000
12:55:00 PM	0.1	0.001	0.000
12:56:00 PM	0.1	0.001	0.000
12:57:00 PM	0.2	0.001	0.000
12:58:00 PM	0.1	0.001	0.000
12:59:00 PM	0.1	0.001	0.000
1:00:00 PM	0.1	0.001	0.000
1:01:00 PM	0.1	0.001	0.000
1:02:00 PM	0.1	0.001	0.000
1:03:00 PM	0.1	0.001	0.000
1:04:00 PM	0.1	0.001	0.000
1:05:00 PM	0.1	0.001	0.000
1:06:00 PM	0.1	0.001	0.000
1:07:00 PM	0.1	0.001	0.000
1:08:00 PM	0.1	0.001	0.000
1:09:00 PM	0.1	0.001	0.000
1:10:00 PM	0.2	0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:25:00 AM	0.0		0.000
9:26:00 AM	0.0		0.000
9:27:00 AM	0.0	0.127	0.000
9:28:00 AM	0.0	0.024	0.000
9:29:00 AM	0.0	0.018	0.000
9:30:00 AM	0.0	0.017	0.000
9:31:00 AM	0.0	0.017	0.000
9:32:00 AM	0.0	0.017	0.000
9:33:00 AM	0.0	0.017	0.000
9:34:00 AM	0.0	0.020	0.000
9:35:00 AM	0.0	0.020	0.000
9:36:00 AM	0.0	0.020	0.000
9:37:00 AM	0.0	0.022	0.000
9:38:00 AM	0.0	0.021	0.000
9:39:00 AM	0.0	0.022	0.000
9:40:00 AM	0.0	0.021	0.000
9:41:00 AM	0.0	0.019	0.000
9:42:00 AM	0.0	0.019	0.000
9:43:00 AM	0.0	0.018	0.000
9:44:00 AM	0.0	0.017	0.000
9:45:00 AM	0.0	0.020	0.000
9:46:00 AM	0.0	0.016	0.000
9:47:00 AM	0.1	0.016	0.000
9:48:00 AM	0.1	0.019	0.000
9:49:00 AM	0.1	0.016	0.000
9:50:00 AM	0.1	0.016	0.000
9:51:00 AM	0.1	0.016	0.000
9:52:00 AM	0.1	0.016	0.000
9:53:00 AM	0.1	0.016	0.000
9:54:00 AM	0.2	0.016	0.000
9:55:00 AM	0.2	0.021	0.000
9:56:00 AM	0.2	0.018	0.000
9:57:00 AM	0.2	0.018	0.000
9:58:00 AM	0.2	0.018	0.000
9:59:00 AM	0.1	0.030	0.000
10:00:00 AM	0.1	0.022	0.000
10:01:00 AM	0.1	0.016	0.000
10:02:00 AM	0.1	0.018	0.000
10:03:00 AM	0.1	0.022	0.000
10:04:00 AM	0.1	0.023	0.000
10:05:00 AM	0.1	0.025	0.000
10:06:00 AM	0.1	0.022	0.000
10:07:00 AM	0.1	0.018	0.000
10:08:00 AM	0.1	0.020	0.000
10:09:00 AM	0.1	0.024	0.000
10:10:00 AM	0.1	0.032	0.000
10:11:00 AM	0.1	0.016	0.000
10:12:00 AM	0.1	0.013	0.000
10:13:00 AM	0.1	0.013	0.000
10:14:00 AM	0.1	0.012	0.000
10:15:00 AM	0.1	0.182	0.000
10:16:00 AM	0.1	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:17:00 AM	0.1	0.039	0.000
10:18:00 AM	0.1	0.064	0.000
10:19:00 AM	0.1	0.014	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.014	0.000
10:22:00 AM	0.1	0.012	0.000
10:23:00 AM	0.1	0.013	0.000
10:24:00 AM	0.1	0.014	0.000
10:25:00 AM	0.1	0.011	0.000
10:26:00 AM	0.1	0.015	0.000
10:27:00 AM	0.1	0.013	0.000
10:28:00 AM	0.2	0.014	0.000
10:29:00 AM	0.2	0.011	0.000
10:30:00 AM	0.1	0.010	0.000
10:31:00 AM	0.2	0.066	0.000
10:32:00 AM	0.2	0.097	0.000
10:33:00 AM	0.2	0.043	0.000
10:34:00 AM	0.2	0.157	0.000
10:35:00 AM	0.2	0.108	0.000
10:36:00 AM	0.2	0.045	0.000
10:37:00 AM	0.2	0.060	0.000
10:38:00 AM	0.3	0.151	0.000
10:39:00 AM	0.2	0.129	0.000
10:40:00 AM	0.2	0.051	0.000
10:41:00 AM	0.2	0.037	0.000
10:42:00 AM	0.2	0.035	0.000
10:43:00 AM	0.3	0.045	0.000
10:44:00 AM	0.2	0.186	0.000
10:45:00 AM	0.2	0.019	0.000
10:46:00 AM	0.2	0.012	0.000
10:47:00 AM	0.2	0.010	0.000
10:48:00 AM	0.2	0.012	0.000
10:49:00 AM	0.2	0.008	0.000
10:50:00 AM	0.2	0.011	0.000
10:51:00 AM	0.2	0.012	0.000
10:52:00 AM	0.2	0.014	0.000
10:53:00 AM	0.2	0.011	0.000
10:54:00 AM	0.2	0.010	0.000
10:55:00 AM	0.2	0.013	0.000
10:56:00 AM	0.2	0.009	0.000
10:57:00 AM	0.2	0.011	0.000
10:58:00 AM	0.2	0.015	0.000
10:59:00 AM	0.2	0.012	0.000
11:00:00 AM	0.2	0.009	0.000
11:01:00 AM	0.2	0.011	0.000
11:02:00 AM	0.2	0.008	0.000
11:03:00 AM	0.2	0.010	0.000
11:04:00 AM	0.2	0.012	0.000
11:05:00 AM	0.2	0.016	0.000
11:06:00 AM	0.2	0.014	0.000
11:07:00 AM	0.2	0.007	0.000
11:08:00 AM	0.2	0.008	0.000
11:09:00 AM	0.2	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:10:00 AM	0.2	0.012	0.000
11:11:00 AM	0.2	0.009	0.000
11:12:00 AM	0.2	0.009	0.000
11:13:00 AM	0.2	0.009	0.000
11:14:00 AM	0.2	0.006	0.000
11:15:00 AM	0.2	0.007	0.000
11:16:00 AM	0.2	0.007	0.000
11:17:00 AM	0.2	0.010	0.000
11:18:00 AM	0.2	0.009	0.000
11:19:00 AM	0.2	0.009	0.000
11:20:00 AM	0.2	0.010	0.000
11:21:00 AM	0.2	0.007	0.000
11:22:00 AM	0.2	0.011	0.000
11:23:00 AM	0.2	0.009	0.000
11:24:00 AM	0.2	0.009	0.000
11:25:00 AM	0.2	0.006	0.000
11:26:00 AM	0.2	0.011	0.000
11:27:00 AM	0.2	0.009	0.000
11:28:00 AM	0.2	0.009	0.000
11:29:00 AM	0.2	0.011	0.000
11:30:00 AM	0.2	0.010	0.000
11:31:00 AM	0.2	0.011	0.000
11:32:00 AM	0.2	0.018	0.000
11:33:00 AM	0.2	0.008	0.000
11:34:00 AM	0.2	0.013	0.000
11:35:00 AM	0.2	0.009	0.000
11:36:00 AM	0.2	0.007	0.000
11:37:00 AM	0.2	0.006	0.000
11:38:00 AM	0.2	0.011	0.000
11:39:00 AM	0.2	0.010	0.000
11:40:00 AM	0.2	0.009	0.000
11:41:00 AM	0.2	0.006	0.000
11:42:00 AM	0.2	0.009	0.000
11:43:00 AM	0.2	0.008	0.000
11:44:00 AM	0.2	0.008	0.000
11:45:00 AM	0.2	0.007	0.000
11:46:00 AM	0.2	0.007	0.000
11:47:00 AM	0.2	0.005	0.000
11:48:00 AM	0.2	0.005	0.000
11:49:00 AM	0.2	0.005	0.000
11:50:00 AM	0.2	0.005	0.000
11:51:00 AM	0.2	0.007	0.000
11:52:00 AM	0.2	0.005	0.000
11:53:00 AM	0.2	0.005	0.000
11:54:00 AM	0.2	0.008	0.000
11:55:00 AM	0.2	0.008	0.000
11:56:00 AM	0.2	0.007	0.000
11:57:00 AM	0.2	0.004	0.000
11:58:00 AM	0.2	0.003	0.000
11:59:00 AM	0.2	0.003	0.000
12:00:00 PM	0.2	0.004	0.000
12:01:00 PM	0.2	0.004	0.000
12:02:00 PM	0.2	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:03:00 PM	0.2	0.004	0.000
12:04:00 PM	0.2	0.004	0.000
12:05:00 PM	0.2	0.004	0.000
12:06:00 PM	0.2	0.005	0.000
12:07:00 PM	0.2	0.004	0.000
12:08:00 PM	0.2	0.003	0.000
12:09:00 PM	0.2	0.004	0.000
12:10:00 PM	0.2	0.003	0.000
12:11:00 PM	0.2	0.004	0.000
12:12:00 PM	0.2	0.003	0.000
12:13:00 PM	0.2	0.004	0.000
12:14:00 PM	0.2	0.004	0.000
12:15:00 PM	0.2	0.003	0.000
12:16:00 PM	0.2	0.003	0.000
12:17:00 PM	0.2	0.003	0.000
12:18:00 PM	0.2	0.003	0.000
12:19:00 PM	0.2	0.003	0.000
12:20:00 PM	0.2	0.003	0.000
12:21:00 PM	0.2	0.003	0.000
12:22:00 PM	0.2	0.003	0.000
12:23:00 PM	0.2	0.003	0.000
12:24:00 PM	0.2	0.003	0.000
12:25:00 PM	0.2	0.003	0.000
12:26:00 PM	0.2	0.003	0.000
12:27:00 PM	0.2	0.004	0.000
12:28:00 PM	0.2	0.004	0.000
12:29:00 PM	0.2	0.003	0.000
12:30:00 PM	0.2	0.003	0.000
12:31:00 PM	0.2	0.003	0.000
12:32:00 PM	0.2	0.003	0.000
12:33:00 PM	0.2	0.004	0.000
12:34:00 PM	0.2	0.003	0.000
12:35:00 PM	0.2	0.003	0.000
12:36:00 PM	0.2	0.003	0.000
12:37:00 PM	0.2	0.002	0.000
12:38:00 PM	0.2	0.002	0.000
12:39:00 PM	0.2	0.003	0.000
12:40:00 PM	0.2	0.003	0.000
12:41:00 PM	0.2	0.003	0.000
12:42:00 PM	0.2	0.003	0.000
12:43:00 PM	0.2	0.003	0.000
12:44:00 PM	0.2	0.003	0.000
12:45:00 PM	0.2	0.003	0.000
12:46:00 PM	0.2	0.003	0.000
12:47:00 PM	0.2	0.004	0.000
12:48:00 PM	0.2	0.003	0.000
12:49:00 PM	0.2	0.003	0.000
12:50:00 PM	0.2	0.005	0.000
12:51:00 PM	0.2	0.004	0.000
12:52:00 PM	0.2	0.004	0.000
12:53:00 PM	0.2	0.005	0.000
12:54:00 PM	0.2	0.007	0.000
12:55:00 PM	0.2	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:56:00 PM	0.2	0.008	0.000
12:57:00 PM	0.2	0.008	0.000
12:58:00 PM	0.2	0.009	0.000
12:59:00 PM	0.2	0.006	0.000
1:00:00 PM	0.2	0.008	0.000
1:01:00 PM	0.2	0.005	0.000
1:02:00 PM	0.2	0.005	0.000
1:03:00 PM	0.2	0.004	0.000
1:04:00 PM	0.2	0.017	0.000
1:05:00 PM	0.2	0.009	0.000
1:06:00 PM	0.2	0.008	0.000
1:07:00 PM	0.2	0.007	0.000
1:08:00 PM	0.2	0.005	0.000
1:09:00 PM	0.2	0.005	0.000
1:10:00 PM	0.2	0.005	0.000
1:11:00 PM	0.2	0.006	0.000
1:12:00 PM	0.2	0.007	0.000
1:13:00 PM	0.2	0.006	0.000
1:14:00 PM	0.2	0.008	0.000
1:15:00 PM	0.2	0.007	0.000
1:16:00 PM	0.2	0.008	0.000
1:17:00 PM	0.2	0.006	0.000
1:18:00 PM	0.2	0.006	0.000
1:19:00 PM	0.2	0.007	0.000
1:20:00 PM	0.2	0.007	0.000
1:21:00 PM	0.2	0.008	0.000
1:22:00 PM	0.2	0.006	0.000
1:23:00 PM	0.2	0.007	0.000
1:24:00 PM	0.2	0.006	0.000
1:25:00 PM	0.2	0.006	0.000
1:26:00 PM	0.2	0.006	0.000
1:27:00 PM	0.2	0.007	0.000
1:28:00 PM	0.2	0.006	0.000
1:29:00 PM	0.2	0.007	0.000
1:30:00 PM	0.2	0.011	0.000
1:31:00 PM	0.2	0.010	0.000
1:32:00 PM	0.2	0.008	0.000
1:33:00 PM	0.2	0.008	0.000
1:34:00 PM	0.2	0.008	0.000
1:35:00 PM	0.2	0.009	0.000
1:36:00 PM	0.2	0.011	0.000
1:37:00 PM	0.2	0.012	0.000
1:38:00 PM	0.2	0.010	0.000
1:39:00 PM	0.2	0.007	0.000
1:40:00 PM	0.2	0.008	0.000
1:41:00 PM	0.2	0.007	0.000
1:42:00 PM	0.2	0.009	0.000
1:43:00 PM	0.2	0.008	0.000
1:44:00 PM	0.2	0.009	0.000
1:45:00 PM	0.2	0.008	0.000
1:46:00 PM	0.2	0.007	0.000
1:47:00 PM	0.2	0.007	0.000
1:48:00 PM	0.2	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:49:00 PM	0.2	0.008	0.000
1:50:00 PM	0.2	0.008	0.000
1:51:00 PM	0.2	0.021	0.000
1:52:00 PM	0.2	0.008	0.000
1:53:00 PM	0.2	0.006	0.000
1:54:00 PM	0.2	0.008	0.000
1:55:00 PM	0.2	0.007	0.000
1:56:00 PM	0.2	0.009	0.000
1:57:00 PM	0.2	0.01	0.000
1:58:00 PM	0.2	0.011	0.000
1:59:00 PM	0.2	0.01	0.000
2:00:00 PM	0.2	0.008	0.000
2:01:00 PM	0.2	0.009	0.000
2:02:00 PM	0.2	0.019	0.000
2:03:00 PM	0.2	0.019	0.000
2:04:00 PM	0.2	0.015	0.000
2:05:00 PM	0.2	0.009	0.000
2:06:00 PM	0.2	0.008	0.000
2:07:00 PM	0.2	0.013	0.000
2:08:00 PM	0.2	0.012	0.000
2:09:00 PM	0.2	0.012	0.000
2:10:00 PM	0.2	0.014	0.000
2:11:00 PM	0.2	0.01	0.000
2:12:00 PM	0.2	0.008	0.000
2:13:00 PM	0.2	0.01	0.000
2:14:00 PM	0.2	0.009	0.000
2:15:00 PM	0.2	0.008	0.000
2:16:00 PM	0.2	0.013	0.000
2:17:00 PM	0.2	0.018	0.000
2:18:00 PM	0.2	0.018	0.000
2:19:00 PM	0.2	0.044	0.000
2:20:00 PM	0.2	0.040	0.000
2:21:00 PM	0.2	0.025	0.000
2:22:00 PM	0.2	0.044	0.000
2:23:00 PM	0.2	0.022	0.000
2:24:00 PM	0.2	0.016	0.000
2:25:00 PM	0.2	0.013	0.000
2:26:00 PM	0.2	0.013	0.000
2:27:00 PM	0.2	0.013	0.000
2:28:00 PM	0.2	0.031	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NE ~ 10 mph	Date:	1/5/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco is backfilling the first excavation area of #4 were endpoint sample CM-EP-10 B(6') was collected. Sand is backfilled in ten (10) inch lifts and is compacted utilizing a gas powered compactor. EMI is onsite to conduct soil compaction testing, all lifts are compacted to greater than 95% compaction. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.3	0.011	0.000	0.5	0.015	0.000
Down Wind	0.1	0.013	0.000	0.1	0.016	0.000
Work Zone	0.2	0.013	0.000	0.2	0.026	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco backfilling area #4 in ten (10) inch lifts.



Aarco compacting each lift with a gas powered compactor.

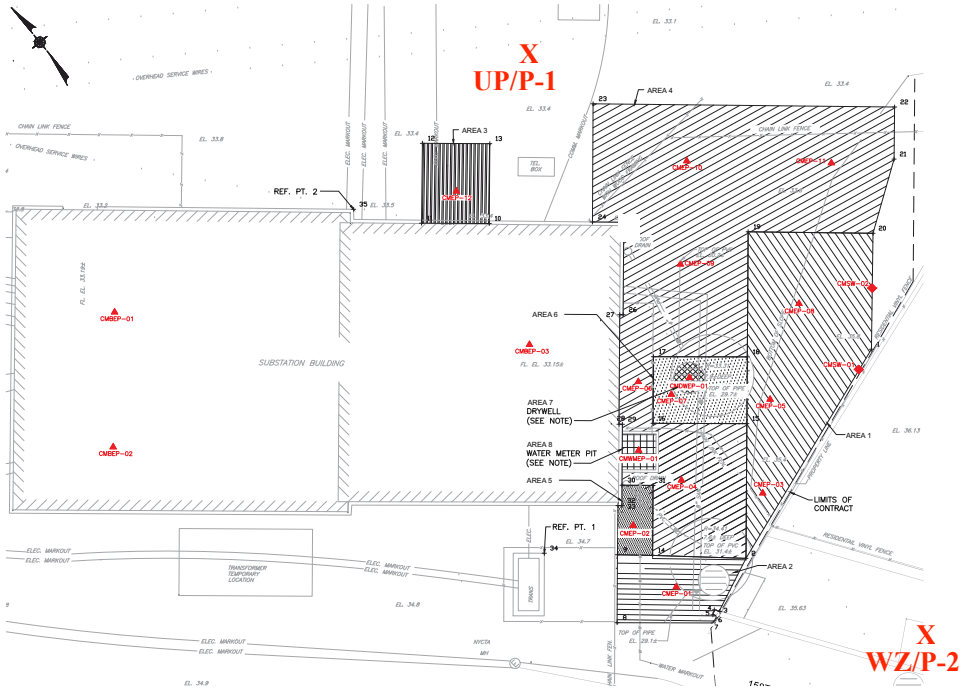


Aarco installing plywood to complete backfilling of first area.



EMI conducting compaction testing on each lift.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:21:00 AM	0.0	0.015	0.000
9:22:00 AM	0.0	0.012	0.000
9:23:00 AM	0.0	0.013	0.000
9:24:00 AM	0.0	0.012	0.000
9:25:00 AM	0.0	0.012	0.000
9:26:00 AM	0.0	0.012	0.000
9:27:00 AM	0.0	0.012	0.000
9:28:00 AM	0.0	0.012	0.000
9:29:00 AM	0.0	0.012	0.000
9:30:00 AM	0.0	0.012	0.000
9:31:00 AM	0.0	0.012	0.000
9:32:00 AM	0.0	0.014	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.013	0.000
9:35:00 AM	0.0	0.012	0.000
9:36:00 AM	0.0	0.013	0.000
9:37:00 AM	0.0	0.013	0.000
9:38:00 AM	0.0	0.012	0.000
9:39:00 AM	0.0	0.013	0.000
9:40:00 AM	0.0	0.015	0.000
9:41:00 AM	0.0	0.013	0.000
9:42:00 AM	0.0	0.016	0.000
9:43:00 AM	0.0	0.013	0.000
9:44:00 AM	0.0	0.012	0.000
9:45:00 AM	0.0	0.014	0.000
9:46:00 AM	0.0	0.016	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.014	0.000
9:49:00 AM	0.0	0.015	0.000
9:50:00 AM	0.1	0.013	0.000
9:51:00 AM	0.1	0.015	0.000
9:52:00 AM	0.1	0.011	0.000
9:53:00 AM	0.1	0.015	0.000
9:54:00 AM	0.1	0.021	0.000
9:55:00 AM	0.1	0.023	0.000
9:56:00 AM	0.1	0.013	0.000
9:57:00 AM	0.1	0.012	0.000
9:58:00 AM	0.1	0.012	0.000
9:59:00 AM	0.1	0.011	0.000
10:00:00 AM	0.1	0.012	0.000
10:01:00 AM	0.1	0.011	0.000
10:02:00 AM	0.1	0.011	0.000
10:03:00 AM	0.1	0.011	0.000
10:04:00 AM	0.1	0.011	0.000
10:05:00 AM	0.1	0.011	0.000
10:06:00 AM	0.1	0.011	0.000
10:07:00 AM	0.1	0.011	0.000
10:08:00 AM	0.1	0.011	0.000
10:09:00 AM	0.1	0.012	0.000
10:10:00 AM	0.1	0.012	0.000
10:11:00 AM	0.1	0.012	0.000
10:12:00 AM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:13:00 AM	0.1	0.011	0.000
10:14:00 AM	0.1	0.011	0.000
10:15:00 AM	0.1	0.011	0.000
10:16:00 AM	0.1	0.012	0.000
10:17:00 AM	0.1	0.011	0.000
10:18:00 AM	0.1	0.011	0.000
10:19:00 AM	0.2	0.012	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.012	0.000
10:22:00 AM	0.1	0.013	0.000
10:23:00 AM	0.2	0.013	0.000
10:24:00 AM	0.2	0.011	0.000
10:25:00 AM	0.1	0.010	0.000
10:26:00 AM	0.2	0.010	0.000
10:27:00 AM	0.2	0.010	0.000
10:28:00 AM	0.2	0.010	0.000
10:29:00 AM	0.2	0.010	0.000
10:30:00 AM	0.2	0.012	0.000
10:31:00 AM	0.2	0.013	0.000
10:32:00 AM	0.2	0.011	0.000
10:33:00 AM	0.2	0.011	0.000
10:34:00 AM	0.2	0.011	0.000
10:35:00 AM	0.2	0.011	0.000
10:36:00 AM	0.2	0.010	0.000
10:37:00 AM	0.2	0.010	0.000
10:38:00 AM	0.2	0.010	0.000
10:39:00 AM	0.2	0.010	0.000
10:40:00 AM	0.2	0.010	0.000
10:41:00 AM	0.2	0.010	0.000
10:42:00 AM	0.2	0.009	0.000
10:43:00 AM	0.2	0.009	0.000
10:44:00 AM	0.2	0.009	0.000
10:45:00 AM	0.2	0.009	0.000
10:46:00 AM	0.2	0.010	0.000
10:47:00 AM	0.3	0.009	0.000
10:48:00 AM	0.2	0.009	0.000
10:49:00 AM	0.7	0.014	0.000
10:50:00 AM	0.3	0.011	0.000
10:51:00 AM	0.4	0.009	0.000
10:52:00 AM	0.3	0.009	0.000
10:53:00 AM	0.3	0.009	0.000
10:54:00 AM	0.3	0.009	0.000
10:55:00 AM	0.3	0.009	0.000
10:56:00 AM	0.3	0.010	0.000
10:57:00 AM	0.3	0.009	0.000
10:58:00 AM	0.3	0.010	0.000
10:59:00 AM	0.3	0.010	0.000
11:00:00 AM	0.3	0.009	0.000
11:01:00 AM	0.3	0.009	0.000
11:02:00 AM	0.3	0.010	0.000
11:03:00 AM	0.3	0.010	0.000
11:04:00 AM	0.3	0.010	0.000
11:05:00 AM	0.3	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:06:00 AM	0.4	0.014	0.000
11:07:00 AM	0.3	0.014	0.000
11:08:00 AM	0.3	0.010	0.000
11:09:00 AM	0.3	0.009	0.000
11:10:00 AM	0.3	0.010	0.000
11:11:00 AM	0.3	0.010	0.000
11:12:00 AM	0.3	0.010	0.000
11:13:00 AM	0.3	0.009	0.000
11:14:00 AM	0.3	0.009	0.000
11:15:00 AM	0.3	0.010	0.000
11:16:00 AM	0.4	0.010	0.000
11:17:00 AM	0.3	0.011	0.000
11:18:00 AM	0.3	0.010	0.000
11:19:00 AM	0.3	0.010	0.000
11:20:00 AM	0.4	0.009	0.000
11:21:00 AM	0.4	0.013	0.000
11:22:00 AM	0.3	0.015	0.000
11:23:00 AM	0.4	0.010	0.000
11:24:00 AM	0.4	0.010	0.000
11:25:00 AM	0.4	0.010	0.000
11:26:00 AM	0.4	0.010	0.000
11:27:00 AM	0.4	0.010	0.000
11:28:00 AM	0.3	0.010	0.000
11:29:00 AM	0.3	0.010	0.000
11:30:00 AM	0.3	0.009	0.000
11:31:00 AM	0.4	0.009	0.000
11:32:00 AM	0.4	0.009	0.000
11:33:00 AM	0.4	0.009	0.000
11:34:00 AM	0.4	0.018	0.000
11:35:00 AM	0.4	0.012	0.000
11:36:00 AM	0.4	0.011	0.000
11:37:00 AM	0.4	0.011	0.000
11:38:00 AM	0.4	0.010	0.000
11:39:00 AM	0.4	0.010	0.000
11:40:00 AM	0.4	0.010	0.000
11:41:00 AM	0.4	0.011	0.000
11:42:00 AM	0.4	0.009	0.000
11:43:00 AM	0.4	0.009	0.000
11:44:00 AM	0.3	0.009	0.000
11:45:00 AM	0.4	0.010	0.000
11:46:00 AM	0.4	0.010	0.000
11:47:00 AM	0.4	0.010	0.000
11:48:00 AM	0.4	0.010	0.000
11:49:00 AM	0.4	0.010	0.000
11:50:00 AM	0.4	0.011	0.000
11:51:00 AM	0.4	0.010	0.000
11:52:00 AM	0.4	0.010	0.000
11:53:00 AM	0.4	0.010	0.000
11:54:00 AM	0.4	0.015	0.000
11:55:00 AM	0.4	0.012	0.000
11:56:00 AM	0.4	0.012	0.000
11:57:00 AM	0.4	0.010	0.000
11:58:00 AM	0.4	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:59:00 AM	0.4	0.009	0.000
12:00:00 PM	0.4	0.009	0.000
12:01:00 PM	0.4	0.009	0.000
12:02:00 PM	0.4	0.009	0.000
12:03:00 PM	0.4	0.009	0.000
12:04:00 PM	0.4	0.009	0.000
12:05:00 PM	0.4	0.010	0.000
12:06:00 PM	0.4	0.009	0.000
12:07:00 PM	0.4	0.010	0.000
12:08:00 PM	0.4	0.011	0.000
12:09:00 PM	0.4	0.011	0.000
12:10:00 PM	0.4	0.010	0.000
12:11:00 PM	0.4	0.009	0.000
12:12:00 PM	0.5	0.010	0.000
12:13:00 PM	0.4	0.011	0.000
12:14:00 PM	0.4	0.009	0.000
12:15:00 PM	0.4	0.009	0.000
12:16:00 PM	0.4	0.009	0.000
12:17:00 PM	0.5	0.010	0.000
12:18:00 PM	0.4	0.011	0.000
12:19:00 PM	0.4	0.010	0.000
12:20:00 PM	0.4	0.010	0.000
12:21:00 PM	0.5	0.010	0.000
12:22:00 PM	0.4	0.010	0.000
12:23:00 PM	0.4	0.010	0.000
12:24:00 PM	0.4	0.010	0.000
12:25:00 PM	0.4	0.010	0.000
12:26:00 PM	0.4	0.012	0.000
12:27:00 PM	0.4	0.010	0.000
12:28:00 PM	0.4	0.010	0.000
12:29:00 PM	0.4	0.010	0.000
12:30:00 PM	0.4	0.011	0.000
12:31:00 PM	0.4	0.010	0.000
12:32:00 PM	0.4	0.010	0.000
12:33:00 PM	0.4	0.010	0.000
12:34:00 PM	0.5	0.010	0.000
12:35:00 PM	0.4	0.010	0.000
12:36:00 PM	0.4	0.010	0.000
12:37:00 PM	0.4	0.010	0.000
12:38:00 PM	0.4	0.011	0.000
12:39:00 PM	0.4	0.010	0.000
12:40:00 PM	0.4	0.010	0.000
12:41:00 PM	0.4	0.011	0.000
12:42:00 PM	0.4	0.011	0.000
12:43:00 PM	0.4	0.011	0.000
12:44:00 PM	0.4	0.010	0.000
12:45:00 PM	0.4	0.011	0.000
12:46:00 PM	0.4	0.011	0.000
12:47:00 PM	0.4	0.011	0.000
12:48:00 PM	0.4	0.011	0.000
12:49:00 PM	0.4	0.011	0.000
12:50:00 PM	0.4	0.011	0.000
12:51:00 PM	0.4	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:52:00 PM	0.5	0.011	0.000
12:53:00 PM	0.4	0.011	0.000
12:54:00 PM	0.5	0.011	0.000
12:55:00 PM	0.4	0.011	0.000
12:56:00 PM	0.4	0.011	0.000
12:57:00 PM	0.5	0.011	0.000
12:58:00 PM	0.5	0.012	0.000
12:59:00 PM	0.4	0.011	0.000
1:00:00 PM	0.4	0.011	0.000
1:01:00 PM	0.5	0.011	0.000
1:02:00 PM	0.5	0.011	0.000
1:03:00 PM	0.4	0.011	0.000
1:04:00 PM	0.4	0.011	0.000
1:05:00 PM	0.5	0.011	0.000
1:06:00 PM	0.4	0.011	0.000
1:07:00 PM	0.4	0.011	0.000
1:08:00 PM	0.4	0.011	0.000
1:09:00 PM	0.4	0.011	0.000
1:10:00 PM	0.4	0.011	0.000
1:11:00 PM	0.4	0.011	0.000
1:12:00 PM	0.4	0.011	0.000
1:13:00 PM	0.5	0.011	0.000
1:14:00 PM	0.5	0.011	0.000
1:15:00 PM	0.5	0.012	0.000
1:16:00 PM	0.5	0.012	0.000
1:17:00 PM	0.5	0.012	0.000
1:18:00 PM	0.5	0.011	0.000
1:19:00 PM	0.5	0.011	0.000
1:20:00 PM	0.5	0.011	0.000
1:21:00 PM	0.5	0.011	0.000
1:22:00 PM	0.5	0.012	0.000
1:23:00 PM	0.5	0.013	0.000
1:24:00 PM	0.5	0.013	0.000
1:25:00 PM	0.5	0.012	0.000
1:26:00 PM	0.5	0.013	0.000
1:27:00 PM	0.5	0.012	0.000
1:28:00 PM	0.5	0.012	0.000
1:29:00 PM	0.5	0.015	0.000
1:30:00 PM	0.5	0.014	0.000
1:31:00 PM	0.5	0.012	0.000
1:32:00 PM	0.5	0.011	0.000
1:33:00 PM	0.5	0.013	0.000
1:34:00 PM	0.5	0.012	0.000
1:35:00 PM	0.5	0.011	0.000
1:36:00 PM	0.5	0.014	0.000
1:37:00 PM	0.5	0.014	0.000
1:38:00 PM	0.5	0.014	0.000
1:39:00 PM	0.5	0.011	0.000
1:40:00 PM	0.5	0.013	0.000
1:41:00 PM	0.5	0.012	0.000
1:42:00 PM	0.5	0.014	0.000
1:43:00 PM	0.5	0.012	0.000
1:44:00 PM	0.5	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:45:00 PM	0.5	0.013	0.000
1:46:00 PM	0.5	0.012	0.000
1:47:00 PM	0.5	0.012	0.000
1:48:00 PM	0.5	0.012	0.000
1:49:00 PM	0.5	0.011	0.000
1:50:00 PM	0.5	0.012	0.000
1:51:00 PM	0.5	0.013	0.000
1:52:00 PM	0.5	0.014	0.000
1:53:00 PM	0.5	0.015	0.000
1:54:00 PM	0.5	0.015	0.000
1:55:00 PM	0.5	0.015	0.000
1:56:00 PM	0.6	0.013	0.000
1:57:00 PM	0.5	0.015	0.000
1:58:00 PM	0.5	0.017	0.000
1:59:00 PM	0.5	0.013	0.000
2:00:00 PM	0.5	0.014	0.000
2:01:00 PM	0.6	0.015	0.000
2:02:00 PM	0.5	0.015	0.000
2:03:00 PM	0.5	0.015	0.000
2:04:00 PM	0.5	0.014	0.000
2:05:00 PM	0.6	0.015	0.000
2:06:00 PM	0.5	0.019	0.000
2:07:00 PM	0.5	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:32:00 AM	0.0		0.000
9:33:00 AM	0.1	0.046	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.1	0.014	0.000
9:36:00 AM	0.1	0.016	0.000
9:37:00 AM	0.1	0.015	0.000
9:38:00 AM	0.1	0.016	0.000
9:39:00 AM	0.1	0.016	0.000
9:40:00 AM	0.1	0.014	0.000
9:41:00 AM	0.1	0.014	0.000
9:42:00 AM	0.1	0.013	0.000
9:43:00 AM	0.1	0.016	0.000
9:44:00 AM	0.1	0.014	0.000
9:45:00 AM	0.1	0.014	0.000
9:46:00 AM	0.1	0.014	0.000
9:47:00 AM	0.1	0.015	0.000
9:48:00 AM	0.1	0.014	0.000
9:49:00 AM	0.1	0.015	0.000
9:50:00 AM	0.1	0.013	0.000
9:51:00 AM	0.1	0.013	0.000
9:52:00 AM	0.1	0.012	0.000
9:53:00 AM	0.1	0.016	0.000
9:54:00 AM	0.1	0.012	0.000
9:55:00 AM	0.1	0.013	0.000
9:56:00 AM	0.1	0.014	0.000
9:57:00 AM	0.1	0.012	0.000
9:58:00 AM	0.1	0.013	0.000
9:59:00 AM	0.1	0.096	0.000
10:00:00 AM	0.1	0.123	0.000
10:01:00 AM	0.1	0.014	0.000
10:02:00 AM	0.1	0.012	0.000
10:03:00 AM	0.1	0.012	0.000
10:04:00 AM	0.1	0.012	0.000
10:05:00 AM	0.1	0.012	0.000
10:06:00 AM	0.1	0.012	0.000
10:07:00 AM	0.1	0.012	0.000
10:08:00 AM	0.1	0.013	0.000
10:09:00 AM	0.1	0.012	0.000
10:10:00 AM	0.2	0.013	0.000
10:11:00 AM	0.2	0.012	0.000
10:12:00 AM	0.2	0.012	0.000
10:13:00 AM	0.2	0.012	0.000
10:14:00 AM	0.2	0.012	0.000
10:15:00 AM	0.2	0.012	0.000
10:16:00 AM	0.2	0.012	0.000
10:17:00 AM	0.2	0.012	0.000
10:18:00 AM	0.2	0.012	0.000
10:19:00 AM	0.2	0.012	0.000
10:20:00 AM	0.2	0.014	0.000
10:21:00 AM	0.2	0.015	0.000
10:22:00 AM	0.2	0.014	0.000
10:23:00 AM	0.2	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:24:00 AM	0.2	0.012	0.000
10:25:00 AM	0.2	0.011	0.000
10:26:00 AM	0.2	0.011	0.000
10:27:00 AM	0.2	0.011	0.000
10:28:00 AM	0.2	0.011	0.000
10:29:00 AM	0.2	0.011	0.000
10:30:00 AM	0.2	0.012	0.000
10:31:00 AM	0.2	0.012	0.000
10:32:00 AM	0.2	0.012	0.000
10:33:00 AM	0.2	0.011	0.000
10:34:00 AM	0.2	0.011	0.000
10:35:00 AM	0.2	0.011	0.000
10:36:00 AM	0.2	0.010	0.000
10:37:00 AM	0.2	0.010	0.000
10:38:00 AM	0.2	0.010	0.000
10:39:00 AM	0.2	0.010	0.000
10:40:00 AM	0.2	0.010	0.000
10:41:00 AM	0.2	0.010	0.000
10:42:00 AM	0.2	0.010	0.000
10:43:00 AM	0.2	0.010	0.000
10:44:00 AM	0.2	0.010	0.000
10:45:00 AM	0.2	0.010	0.000
10:46:00 AM	0.2	0.010	0.000
10:47:00 AM	0.2	0.009	0.000
10:48:00 AM	0.2	0.009	0.000
10:49:00 AM	0.2	0.010	0.000
10:50:00 AM	0.2	0.009	0.000
10:51:00 AM	0.2	0.010	0.000
10:52:00 AM	0.2	0.009	0.000
10:53:00 AM	0.2	0.009	0.000
10:54:00 AM	0.2	0.009	0.000
10:55:00 AM	0.2	0.009	0.000
10:56:00 AM	0.2	0.010	0.000
10:57:00 AM	0.2	0.012	0.000
10:58:00 AM	0.2	0.011	0.000
10:59:00 AM	0.2	0.010	0.000
11:00:00 AM	0.2	0.011	0.000
11:01:00 AM	0.2	0.010	0.000
11:02:00 AM	0.2	0.010	0.000
11:03:00 AM	0.2	0.010	0.000
11:04:00 AM	0.2	0.010	0.000
11:05:00 AM	0.2	0.012	0.000
11:06:00 AM	0.2	0.020	0.000
11:07:00 AM	0.2	0.012	0.000
11:08:00 AM	0.2	0.010	0.000
11:09:00 AM	0.2	0.011	0.000
11:10:00 AM	0.2	0.010	0.000
11:11:00 AM	0.2	0.011	0.000
11:12:00 AM	0.2	0.011	0.000
11:13:00 AM	0.2	0.010	0.000
11:14:00 AM	0.2	0.011	0.000
11:15:00 AM	0.2	0.011	0.000
11:16:00 AM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:17:00 AM	0.2	0.012	0.000
11:18:00 AM	0.2	0.012	0.000
11:19:00 AM	0.2	0.013	0.000
11:20:00 AM	0.2	0.013	0.000
11:21:00 AM	0.2	0.010	0.000
11:22:00 AM	0.2	0.011	0.000
11:23:00 AM	0.2	0.013	0.000
11:24:00 AM	0.2	0.012	0.000
11:25:00 AM	0.2	0.012	0.000
11:26:00 AM	0.2	0.011	0.000
11:27:00 AM	0.2	0.011	0.000
11:28:00 AM	0.2	0.010	0.000
11:29:00 AM	0.2	0.009	0.000
11:30:00 AM	0.2	0.010	0.000
11:31:00 AM	0.2	0.009	0.000
11:32:00 AM	0.2	0.009	0.000
11:33:00 AM	0.2	0.009	0.000
11:34:00 AM	0.2	0.009	0.000
11:35:00 AM	0.2	0.010	0.000
11:36:00 AM	0.2	0.011	0.000
11:37:00 AM	0.2	0.010	0.000
11:38:00 AM	0.2	0.010	0.000
11:39:00 AM	0.2	0.011	0.000
11:40:00 AM	0.2	0.012	0.000
11:41:00 AM	0.2	0.011	0.000
11:42:00 AM	0.2	0.010	0.000
11:43:00 AM	0.2	0.009	0.000
11:44:00 AM	0.2	0.016	0.000
11:45:00 AM	0.2	0.011	0.000
11:46:00 AM	0.2	0.009	0.000
11:47:00 AM	0.2	0.009	0.000
11:48:00 AM	0.2	0.009	0.000
11:49:00 AM	0.2	0.014	0.000
11:50:00 AM	0.2	0.016	0.000
11:51:00 AM	0.2	0.013	0.000
11:52:00 AM	0.2	0.014	0.000
11:53:00 AM	0.2	0.014	0.000
11:54:00 AM	0.2	0.016	0.000
11:55:00 AM	0.2	0.014	0.000
11:56:00 AM	0.2	0.014	0.000
11:57:00 AM	0.2	0.010	0.000
11:58:00 AM	0.2	0.009	0.000
11:59:00 AM	0.2	0.009	0.000
12:00:00 PM	0.2	0.009	0.000
12:01:00 PM	0.2	0.009	0.000
12:02:00 PM	0.2	0.009	0.000
12:03:00 PM	0.2	0.009	0.000
12:04:00 PM	0.2	0.009	0.000
12:05:00 PM	0.2	0.011	0.000
12:06:00 PM	0.2	0.009	0.000
12:07:00 PM	0.2	0.010	0.000
12:08:00 PM	0.2	0.010	0.000
12:09:00 PM	0.2	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:10:00 PM	0.2	0.011	0.000
12:11:00 PM	0.2	0.010	0.000
12:12:00 PM	0.2	0.010	0.000
12:13:00 PM	0.2	0.010	0.000
12:14:00 PM	0.2	0.010	0.000
12:15:00 PM	0.2	0.011	0.000
12:16:00 PM	0.2	0.011	0.000
12:17:00 PM	0.2	0.011	0.000
12:18:00 PM	0.2	0.011	0.000
12:19:00 PM	0.2	0.011	0.000
12:20:00 PM	0.2	0.011	0.000
12:21:00 PM	0.2	0.011	0.000
12:22:00 PM	0.2	0.010	0.000
12:23:00 PM	0.2	0.010	0.000
12:24:00 PM	0.2	0.010	0.000
12:25:00 PM	0.2	0.011	0.000
12:26:00 PM	0.2	0.012	0.000
12:27:00 PM	0.2	0.010	0.000
12:28:00 PM	0.2	0.010	0.000
12:29:00 PM	0.2	0.011	0.000
12:30:00 PM	0.2	0.013	0.000
12:31:00 PM	0.2	0.011	0.000
12:32:00 PM	0.2	0.010	0.000
12:33:00 PM	0.2	0.012	0.000
12:34:00 PM	0.2	0.011	0.000
12:35:00 PM	0.2	0.011	0.000
12:36:00 PM	0.2	0.010	0.000
12:37:00 PM	0.2	0.011	0.000
12:38:00 PM	0.2	0.011	0.000
12:39:00 PM	0.2	0.011	0.000
12:40:00 PM	0.2	0.011	0.000
12:41:00 PM	0.2	0.012	0.000
12:42:00 PM	0.2	0.012	0.000
12:43:00 PM	0.2	0.011	0.000
12:44:00 PM	0.2	0.011	0.000
12:45:00 PM	0.2	0.011	0.000
12:46:00 PM	0.2	0.011	0.000
12:47:00 PM	0.2	0.011	0.000
12:48:00 PM	0.2	0.011	0.000
12:49:00 PM	0.2	0.012	0.000
12:50:00 PM	0.2	0.012	0.000
12:51:00 PM	0.2	0.012	0.000
12:52:00 PM	0.2	0.012	0.000
12:53:00 PM	0.2	0.012	0.000
12:54:00 PM	0.2	0.012	0.000
12:55:00 PM	0.2	0.011	0.000
12:56:00 PM	0.2	0.011	0.000
12:57:00 PM	0.2	0.012	0.000
12:58:00 PM	0.2	0.012	0.000
12:59:00 PM	0.2	0.011	0.000
1:00:00 PM	0.2	0.012	0.000
1:01:00 PM	0.2	0.012	0.000
1:02:00 PM	0.2	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:03:00 PM	0.2	0.016	0.000
1:04:00 PM	0.2	0.021	0.000
1:05:00 PM	0.2	0.013	0.000
1:06:00 PM	0.2	0.015	0.000
1:07:00 PM	0.2	0.016	0.000
1:08:00 PM	0.2	0.018	0.000
1:09:00 PM	0.2	0.016	0.000
1:10:00 PM	0.2	0.015	0.000
1:11:00 PM	0.2	0.020	0.000
1:12:00 PM	0.2	0.017	0.000
1:13:00 PM	0.2	0.017	0.000
1:14:00 PM	0.2	0.020	0.000
1:15:00 PM	0.2	0.013	0.000
1:16:00 PM	0.2	0.014	0.000
1:17:00 PM	0.2	0.013	0.000
1:18:00 PM	0.2	0.013	0.000
1:19:00 PM	0.2	0.011	0.000
1:20:00 PM	0.2	0.011	0.000
1:21:00 PM	0.2	0.012	0.000
1:22:00 PM	0.2	0.013	0.000
1:23:00 PM	0.3	0.014	0.000
1:24:00 PM	0.2	0.014	0.000
1:25:00 PM	0.2	0.013	0.000
1:26:00 PM	0.2	0.014	0.000
1:27:00 PM	0.2	0.013	0.000
1:28:00 PM	0.2	0.014	0.000
1:29:00 PM	0.2	0.013	0.000
1:30:00 PM	0.2	0.015	0.000
1:31:00 PM	0.2	0.013	0.000
1:32:00 PM	0.2	0.015	0.000
1:33:00 PM	0.2	0.014	0.000
1:34:00 PM	0.2	0.014	0.000
1:35:00 PM	0.2	0.013	0.000
1:36:00 PM	0.2	0.012	0.000
1:37:00 PM	0.2	0.013	0.000
1:38:00 PM	0.2	0.014	0.000
1:39:00 PM	0.2	0.017	0.000
1:40:00 PM	0.2	0.013	0.000
1:41:00 PM	0.2	0.016	0.000
1:42:00 PM	0.2	0.013	0.000
1:43:00 PM	0.2	0.017	0.000
1:44:00 PM	0.2	0.013	0.000
1:45:00 PM	0.2	0.016	0.000
1:46:00 PM	0.2	0.013	0.000
1:47:00 PM	0.2	0.013	0.000
1:48:00 PM	0.2	0.013	0.000
1:49:00 PM	0.2	0.013	0.000
1:50:00 PM	0.2	0.014	0.000
1:51:00 PM	0.2	0.016	0.000
1:52:00 PM	0.2	0.015	0.000
1:53:00 PM	0.2	0.014	0.000
1:54:00 PM	0.2	0.013	0.000
1:55:00 PM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:56:00 PM	0.2	0.014	0.000
1:57:00 PM	0.2	0.013	0.000
1:58:00 PM	0.2	0.015	0.000
1:59:00 PM	0.2	0.014	0.000
2:00:00 PM	0.2	0.015	0.000
2:01:00 PM	0.2	0.018	0.000
2:02:00 PM	0.2	0.017	0.000
2:03:00 PM	0.2	0.03	0.000
2:04:00 PM	0.2	0.018	0.000
2:05:00 PM	0.2	0.018	0.000
2:06:00 PM	0.2	0.029	0.000
2:07:00 PM	0.2	0.026	0.000
2:08:00 PM	0.2	0.022	0.000
2:09:00 PM	0.2	0.017	0.000
2:10:00 PM	0.2	0.016	0.000
2:11:00 PM	0.2	0.019	0.000
2:12:00 PM	0.2	0.018	0.000
2:13:00 PM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:32:00 AM	0.0	0.137	0.000
9:33:00 AM	0.0	0.024	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.0	0.014	0.000
9:36:00 AM	0.0	0.015	0.000
9:37:00 AM	0.0	0.017	0.000
9:38:00 AM	0.0	0.015	0.000
9:39:00 AM	0.0	0.017	0.000
9:40:00 AM	0.0	0.015	0.000
9:41:00 AM	0.0	0.015	0.000
9:42:00 AM	0.0	0.015	0.000
9:43:00 AM	0.0	0.014	0.000
9:44:00 AM	0.0	0.014	0.000
9:45:00 AM	0.0	0.015	0.000
9:46:00 AM	0.0	0.015	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.015	0.000
9:49:00 AM	0.0	0.015	0.000
9:50:00 AM	0.0	0.014	0.000
9:51:00 AM	0.0	0.012	0.000
9:52:00 AM	0.0	0.013	0.000
9:53:00 AM	0.0	0.013	0.000
9:54:00 AM	0.0	0.013	0.000
9:55:00 AM	0.0	0.014	0.000
9:56:00 AM	0.0	0.013	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.0	0.014	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.014	0.000
10:01:00 AM	0.0	0.013	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.0	0.013	0.000
10:04:00 AM	0.0	0.017	0.000
10:05:00 AM	0.0	0.015	0.000
10:06:00 AM	0.0	0.013	0.000
10:07:00 AM	0.0	0.013	0.000
10:08:00 AM	0.0	0.014	0.000
10:09:00 AM	0.0	0.014	0.000
10:10:00 AM	0.0	0.014	0.000
10:11:00 AM	0.0	0.013	0.000
10:12:00 AM	0.1	0.013	0.000
10:13:00 AM	0.1	0.013	0.000
10:14:00 AM	0.1	0.013	0.000
10:15:00 AM	0.1	0.013	0.000
10:16:00 AM	0.1	0.013	0.000
10:17:00 AM	0.1	0.013	0.000
10:18:00 AM	0.1	0.013	0.000
10:19:00 AM	0.1	0.014	0.000
10:20:00 AM	0.1	0.016	0.000
10:21:00 AM	0.1	0.018	0.000
10:22:00 AM	0.1	0.016	0.000
10:23:00 AM	0.1	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:24:00 AM	0.1	0.013	0.000
10:25:00 AM	0.1	0.012	0.000
10:26:00 AM	0.1	0.013	0.000
10:27:00 AM	0.1	0.013	0.000
10:28:00 AM	0.1	0.013	0.000
10:29:00 AM	0.1	0.013	0.000
10:30:00 AM	0.1	0.014	0.000
10:31:00 AM	0.1	0.014	0.000
10:32:00 AM	0.1	0.013	0.000
10:33:00 AM	0.1	0.013	0.000
10:34:00 AM	0.1	0.013	0.000
10:35:00 AM	0.1	0.013	0.000
10:36:00 AM	0.1	0.013	0.000
10:37:00 AM	0.1	0.013	0.000
10:38:00 AM	0.1	0.012	0.000
10:39:00 AM	0.1	0.013	0.000
10:40:00 AM	0.1	0.013	0.000
10:41:00 AM	0.1	0.012	0.000
10:42:00 AM	0.1	0.012	0.000
10:43:00 AM	0.1	0.012	0.000
10:44:00 AM	0.1	0.012	0.000
10:45:00 AM	0.1	0.012	0.000
10:46:00 AM	0.1	0.012	0.000
10:47:00 AM	0.1	0.012	0.000
10:48:00 AM	0.1	0.012	0.000
10:49:00 AM	0.1	0.011	0.000
10:50:00 AM	0.1	0.011	0.000
10:51:00 AM	0.1	0.012	0.000
10:52:00 AM	0.1	0.011	0.000
10:53:00 AM	0.1	0.011	0.000
10:54:00 AM	0.1	0.011	0.000
10:55:00 AM	0.1	0.011	0.000
10:56:00 AM	0.1	0.011	0.000
10:57:00 AM	0.1	0.011	0.000
10:58:00 AM	0.1	0.012	0.000
10:59:00 AM	0.1	0.012	0.000
11:00:00 AM	0.1	0.014	0.000
11:01:00 AM	0.1	0.013	0.000
11:02:00 AM	0.1	0.013	0.000
11:03:00 AM	0.1	0.012	0.000
11:04:00 AM	0.1	0.012	0.000
11:05:00 AM	0.1	0.012	0.000
11:06:00 AM	0.1	0.013	0.000
11:07:00 AM	0.1	0.012	0.000
11:08:00 AM	0.1	0.012	0.000
11:09:00 AM	0.1	0.012	0.000
11:10:00 AM	0.1	0.012	0.000
11:11:00 AM	0.1	0.013	0.000
11:12:00 AM	0.1	0.012	0.000
11:13:00 AM	0.1	0.012	0.000
11:14:00 AM	0.1	0.012	0.000
11:15:00 AM	0.1	0.012	0.000
11:16:00 AM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:17:00 AM	0.1	0.013	0.000
11:18:00 AM	0.1	0.013	0.000
11:19:00 AM	0.1	0.014	0.000
11:20:00 AM	0.1	0.012	0.000
11:21:00 AM	0.1	0.011	0.000
11:22:00 AM	0.1	0.012	0.000
11:23:00 AM	0.1	0.012	0.000
11:24:00 AM	0.1	0.012	0.000
11:25:00 AM	0.1	0.012	0.000
11:26:00 AM	0.1	0.014	0.000
11:27:00 AM	0.1	0.012	0.000
11:28:00 AM	0.1	0.013	0.000
11:29:00 AM	0.1	0.011	0.000
11:30:00 AM	0.1	0.012	0.000
11:31:00 AM	0.1	0.012	0.000
11:32:00 AM	0.1	0.011	0.000
11:33:00 AM	0.1	0.012	0.000
11:34:00 AM	0.1	0.011	0.000
11:35:00 AM	0.1	0.011	0.000
11:36:00 AM	0.1	0.012	0.000
11:37:00 AM	0.1	0.013	0.000
11:38:00 AM	0.1	0.013	0.000
11:39:00 AM	0.1	0.012	0.000
11:40:00 AM	0.1	0.013	0.000
11:41:00 AM	0.1	0.012	0.000
11:42:00 AM	0.1	0.011	0.000
11:43:00 AM	0.1	0.011	0.000
11:44:00 AM	0.1	0.013	0.000
11:45:00 AM	0.1	0.011	0.000
11:46:00 AM	0.1	0.011	0.000
11:47:00 AM	0.1	0.010	0.000
11:48:00 AM	0.1	0.010	0.000
11:49:00 AM	0.1	0.011	0.000
11:50:00 AM	0.1	0.012	0.000
11:51:00 AM	0.1	0.013	0.000
11:52:00 AM	0.1	0.014	0.000
11:53:00 AM	0.1	0.013	0.000
11:54:00 AM	0.1	0.013	0.000
11:55:00 AM	0.1	0.013	0.000
11:56:00 AM	0.1	0.013	0.000
11:57:00 AM	0.1	0.012	0.000
11:58:00 AM	0.1	0.012	0.000
11:59:00 AM	0.1	0.012	0.000
12:00:00 PM	0.1	0.012	0.000
12:01:00 PM	0.1	0.012	0.000
12:02:00 PM	0.1	0.012	0.000
12:03:00 PM	0.1	0.012	0.000
12:04:00 PM	0.1	0.013	0.000
12:05:00 PM	0.1	0.016	0.000
12:06:00 PM	0.1	0.012	0.000
12:07:00 PM	0.1	0.012	0.000
12:08:00 PM	0.1	0.013	0.000
12:09:00 PM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:10:00 PM	0.1	0.011	0.000
12:11:00 PM	0.1	0.011	0.000
12:12:00 PM	0.1	0.012	0.000
12:13:00 PM	0.1	0.013	0.000
12:14:00 PM	0.1	0.013	0.000
12:15:00 PM	0.1	0.013	0.000
12:16:00 PM	0.1	0.012	0.000
12:17:00 PM	0.1	0.013	0.000
12:18:00 PM	0.1	0.014	0.000
12:19:00 PM	0.1	0.014	0.000
12:20:00 PM	0.1	0.013	0.000
12:21:00 PM	0.1	0.014	0.000
12:22:00 PM	0.1	0.013	0.000
12:23:00 PM	0.1	0.013	0.000
12:24:00 PM	0.1	0.013	0.000
12:25:00 PM	0.1	0.014	0.000
12:26:00 PM	0.1	0.014	0.000
12:27:00 PM	0.1	0.013	0.000
12:28:00 PM	0.1	0.013	0.000
12:29:00 PM	0.1	0.014	0.000
12:30:00 PM	0.1	0.014	0.000
12:31:00 PM	0.1	0.014	0.000
12:32:00 PM	0.1	0.014	0.000
12:33:00 PM	0.1	0.015	0.000
12:34:00 PM	0.1	0.013	0.000
12:35:00 PM	0.1	0.013	0.000
12:36:00 PM	0.1	0.013	0.000
12:37:00 PM	0.1	0.014	0.000
12:38:00 PM	0.1	0.015	0.000
12:39:00 PM	0.1	0.013	0.000
12:40:00 PM	0.1	0.013	0.000
12:41:00 PM	0.1	0.015	0.000
12:42:00 PM	0.1	0.015	0.000
12:43:00 PM	0.1	0.014	0.000
12:44:00 PM	0.1	0.013	0.000
12:45:00 PM	0.1	0.014	0.000
12:46:00 PM	0.1	0.014	0.000
12:47:00 PM	0.1	0.013	0.000
12:48:00 PM	0.1	0.014	0.000
12:49:00 PM	0.1	0.014	0.000
12:50:00 PM	0.1	0.014	0.000
12:51:00 PM	0.1	0.014	0.000
12:52:00 PM	0.1	0.014	0.000
12:53:00 PM	0.1	0.014	0.000
12:54:00 PM	0.1	0.014	0.000
12:55:00 PM	0.1	0.014	0.000
12:56:00 PM	0.1	0.014	0.000
12:57:00 PM	0.1	0.014	0.000
12:58:00 PM	0.1	0.014	0.000
12:59:00 PM	0.1	0.014	0.000
1:00:00 PM	0.1	0.014	0.000
1:01:00 PM	0.1	0.014	0.000
1:02:00 PM	0.1	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:03:00 PM	0.1	0.014	0.000
1:04:00 PM	0.1	0.014	0.000
1:05:00 PM	0.1	0.014	0.000
1:06:00 PM	0.1	0.013	0.000
1:07:00 PM	0.1	0.016	0.000
1:08:00 PM	0.1	0.015	0.000
1:09:00 PM	0.1	0.015	0.000
1:10:00 PM	0.1	0.015	0.000
1:11:00 PM	0.1	0.014	0.000
1:12:00 PM	0.1	0.015	0.000
1:13:00 PM	0.1	0.015	0.000
1:14:00 PM	0.1	0.015	0.000
1:15:00 PM	0.1	0.015	0.000
1:16:00 PM	0.1	0.014	0.000
1:17:00 PM	0.1	0.014	0.000
1:18:00 PM	0.1	0.014	0.000
1:19:00 PM	0.1	0.014	0.000
1:20:00 PM	0.1	0.014	0.000
1:21:00 PM	0.1	0.015	0.000
1:22:00 PM	0.1	0.015	0.000
1:23:00 PM	0.1	0.017	0.000
1:24:00 PM	0.2	0.017	0.000
1:25:00 PM	0.2	0.018	0.000
1:26:00 PM	0.2	0.020	0.000
1:27:00 PM	0.2	0.017	0.000
1:28:00 PM	0.1	0.016	0.000
1:29:00 PM	0.1	0.015	0.000
1:30:00 PM	0.1	0.015	0.000
1:31:00 PM	0.2	0.014	0.000
1:32:00 PM	0.1	0.015	0.000
1:33:00 PM	0.1	0.014	0.000
1:34:00 PM	0.1	0.014	0.000
1:35:00 PM	0.1	0.014	0.000
1:36:00 PM	0.1	0.014	0.000
1:37:00 PM	0.1	0.016	0.000
1:38:00 PM	0.1	0.014	0.000
1:39:00 PM	0.1	0.014	0.000
1:40:00 PM	0.1	0.014	0.000
1:41:00 PM	0.1	0.014	0.000
1:42:00 PM	0.1	0.014	0.000
1:43:00 PM	0.1	0.014	0.000
1:44:00 PM	0.1	0.014	0.000
1:45:00 PM	0.1	0.014	0.000
1:46:00 PM	0.1	0.015	0.000
1:47:00 PM	0.1	0.015	0.000
1:48:00 PM	0.1	0.015	0.000
1:49:00 PM	0.1	0.015	0.000
1:50:00 PM	0.1	0.018	0.000
1:51:00 PM	0.1	0.019	0.000
1:52:00 PM	0.1	0.018	0.000
1:53:00 PM	0.1	0.017	0.000
1:54:00 PM	0.1	0.016	0.000
1:55:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:56:00 PM	0.1	0.016	0.000
1:57:00 PM	0.1	0.016	0.000
1:58:00 PM	0.1	0.016	0.000
1:59:00 PM	0.1	0.016	0.000
2:00:00 PM	0.1	0.018	0.000
2:01:00 PM	0.1	0.02	0.000
2:02:00 PM	0.1	0.018	0.000
2:03:00 PM	0.1	0.018	0.000
2:04:00 PM	0.1	0.018	0.000
2:05:00 PM	0.1	0.022	0.000
2:06:00 PM	0.1	0.018	0.000
2:07:00 PM	0.1	0.017	0.000
2:08:00 PM	0.1	0.018	0.000
2:09:00 PM	0.1	0.016	0.000
2:10:00 PM	0.1	0.017	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 16 mph	Date:	1/6/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco delivers a load of blue stone to the site. Aarco is installing the digging box within the next section to be excavated within area #4. Aarco is also removing the digging box from the first section to be excavated. Aarco also scrapes soil and ballast that has accumulated in front of the gate to the substation. All soils are placed on the stockpile and the area is then backfilled and compacted with blue stone. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.4	0.018	0.000	0.5	0.027	0.000
Down Wind	0.1	0.022	0.000	0.1	0.032	0.000
Work Zone	0.2	0.025	0.000	0.2	0.040	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

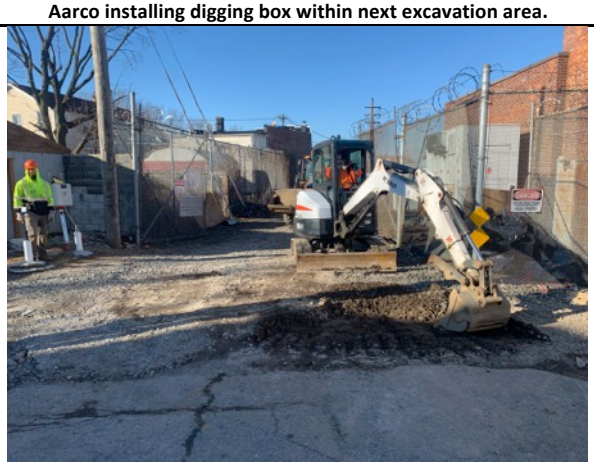
- Aarco will continue excavating area #4.



Aarco installing digging box within next excavation area.



View of downwind monitoring station.

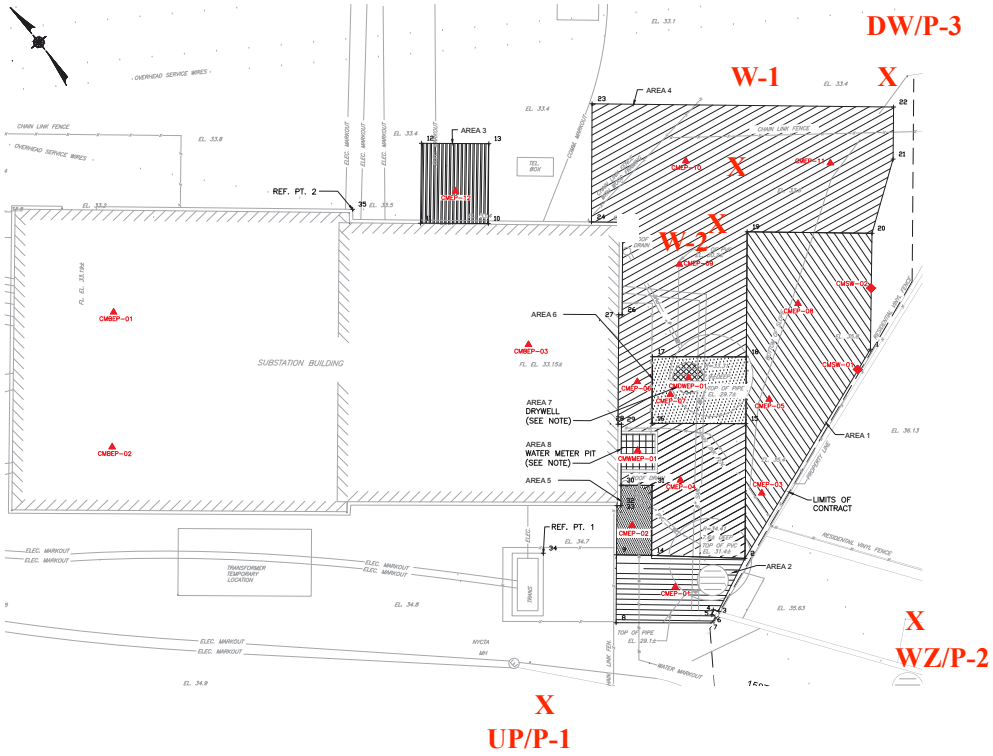


Aarco replacing stone in front of substation gate.



View of new stone in front of gate.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:40:00 AM	0.0	0.0	0.000
9:41:00 AM	0.0	0.022	0.000
9:42:00 AM	0.0	0.023	0.000
9:43:00 AM	0.0	0.024	0.000
9:44:00 AM	0.0	0.025	0.000
9:45:00 AM	0.0	0.025	0.000
9:46:00 AM	0.0	0.025	0.000
9:47:00 AM	0.0	0.025	0.000
9:48:00 AM	0.0	0.025	0.000
9:49:00 AM	0.0	0.023	0.000
9:50:00 AM	0.0	0.021	0.000
9:51:00 AM	0.1	0.023	0.000
9:52:00 AM	0.0	0.022	0.000
9:53:00 AM	0.1	0.022	0.000
9:54:00 AM	0.1	0.022	0.000
9:55:00 AM	0.0	0.023	0.000
9:56:00 AM	0.0	0.023	0.000
9:57:00 AM	0.1	0.024	0.000
9:58:00 AM	0.1	0.024	0.000
9:59:00 AM	0.1	0.025	0.000
10:00:00 AM	0.1	0.025	0.000
10:01:00 AM	0.1	0.025	0.000
10:02:00 AM	0.1	0.025	0.000
10:03:00 AM	0.1	0.026	0.000
10:04:00 AM	0.1	0.027	0.000
10:05:00 AM	0.1	0.026	0.000
10:06:00 AM	0.1	0.025	0.000
10:07:00 AM	0.1	0.025	0.000
10:08:00 AM	0.1	0.026	0.000
10:09:00 AM	0.1	0.026	0.000
10:10:00 AM	0.1	0.026	0.000
10:11:00 AM	0.1	0.026	0.000
10:12:00 AM	0.1	0.026	0.000
10:13:00 AM	0.1	0.026	0.000
10:14:00 AM	0.1	0.027	0.000
10:15:00 AM	0.1	0.027	0.000
10:16:00 AM	0.1	0.026	0.000
10:17:00 AM	0.1	0.026	0.000
10:18:00 AM	0.1	0.027	0.000
10:19:00 AM	0.1	0.027	0.000
10:20:00 AM	0.1	0.026	0.000
10:21:00 AM	0.1	0.026	0.000
10:22:00 AM	0.2	0.026	0.000
10:23:00 AM	0.2	0.026	0.000
10:24:00 AM	0.2	0.026	0.000
10:25:00 AM	0.1	0.025	0.000
10:26:00 AM	0.2	0.025	0.000
10:27:00 AM	0.1	0.025	0.000
10:28:00 AM	0.2	0.026	0.000
10:29:00 AM	0.2	0.026	0.000
10:30:00 AM	0.2	0.026	0.000
10:31:00 AM	0.2	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:32:00 AM	0.2	0.026	0.000
10:33:00 AM	0.2	0.026	0.000
10:34:00 AM	0.2	0.026	0.000
10:35:00 AM	0.2	0.025	0.000
10:36:00 AM	0.2	0.025	0.000
10:37:00 AM	0.2	0.025	0.000
10:38:00 AM	0.2	0.025	0.000
10:39:00 AM	0.2	0.025	0.000
10:40:00 AM	0.2	0.025	0.000
10:41:00 AM	0.2	0.025	0.000
10:42:00 AM	0.2	0.025	0.000
10:43:00 AM	0.2	0.025	0.000
10:44:00 AM	0.2	0.025	0.000
10:45:00 AM	0.2	0.025	0.000
10:46:00 AM	0.2	0.025	0.000
10:47:00 AM	0.2	0.025	0.000
10:48:00 AM	0.3	0.025	0.000
10:49:00 AM	0.6	0.027	0.000
10:50:00 AM	0.3	0.025	0.000
10:51:00 AM	0.3	0.027	0.000
10:52:00 AM	0.3	0.036	0.000
10:53:00 AM	0.3	0.029	0.000
10:54:00 AM	0.4	0.027	0.000
10:55:00 AM	0.3	0.026	0.000
10:56:00 AM	0.3	0.026	0.000
10:57:00 AM	0.3	0.026	0.000
10:58:00 AM	0.3	0.027	0.000
10:59:00 AM	0.3	0.028	0.000
11:00:00 AM	0.3	0.027	0.000
11:01:00 AM	0.3	0.026	0.000
11:02:00 AM	0.3	0.025	0.000
11:03:00 AM	0.3	0.025	0.000
11:04:00 AM	0.3	0.026	0.000
11:05:00 AM	0.3	0.026	0.000
11:06:00 AM	0.3	0.026	0.000
11:07:00 AM	0.3	0.026	0.000
11:08:00 AM	0.3	0.027	0.000
11:09:00 AM	0.3	0.027	0.000
11:10:00 AM	0.3	0.026	0.000
11:11:00 AM	0.3	0.027	0.000
11:12:00 AM	0.3	0.026	0.000
11:13:00 AM	0.3	0.027	0.000
11:14:00 AM	0.3	0.027	0.000
11:15:00 AM	0.4	0.027	0.000
11:16:00 AM	0.3	0.028	0.000
11:17:00 AM	0.3	0.028	0.000
11:18:00 AM	0.3	0.027	0.000
11:19:00 AM	0.3	0.028	0.000
11:20:00 AM	0.3	0.027	0.000
11:21:00 AM	0.4	0.027	0.000
11:22:00 AM	0.4	0.027	0.000
11:23:00 AM	0.4	0.027	0.000
11:24:00 AM	0.3	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:25:00 AM	0.3	0.027	0.000
11:26:00 AM	0.4	0.028	0.000
11:27:00 AM	0.4	0.026	0.000
11:28:00 AM	0.4	0.025	0.000
11:29:00 AM	0.3	0.025	0.000
11:30:00 AM	0.4	0.026	0.000
11:31:00 AM	0.4	0.026	0.000
11:32:00 AM	0.4	0.026	0.000
11:33:00 AM	0.4	0.026	0.000
11:34:00 AM	0.4	0.025	0.000
11:35:00 AM	0.4	0.024	0.000
11:36:00 AM	0.4	0.025	0.000
11:37:00 AM	0.4	0.025	0.000
11:38:00 AM	0.4	0.026	0.000
11:39:00 AM	0.4	0.025	0.000
11:40:00 AM	0.4	0.024	0.000
11:41:00 AM	0.4	0.023	0.000
11:42:00 AM	0.4	0.022	0.000
11:43:00 AM	0.4	0.021	0.000
11:44:00 AM	0.4	0.021	0.000
11:45:00 AM	0.4	0.020	0.000
11:46:00 AM	0.4	0.020	0.000
11:47:00 AM	0.4	0.021	0.000
11:48:00 AM	0.4	0.021	0.000
11:49:00 AM	0.4	0.021	0.000
11:50:00 AM	0.4	0.021	0.000
11:51:00 AM	0.4	0.020	0.000
11:52:00 AM	0.4	0.018	0.000
11:53:00 AM	0.4	0.018	0.000
11:54:00 AM	0.4	0.018	0.000
11:55:00 AM	0.4	0.019	0.000
11:56:00 AM	0.4	0.019	0.000
11:57:00 AM	0.4	0.019	0.000
11:58:00 AM	0.4	0.018	0.000
11:59:00 AM	0.4	0.019	0.000
12:00:00 PM	0.4	0.020	0.000
12:01:00 PM	0.4	0.019	0.000
12:02:00 PM	0.4	0.018	0.000
12:03:00 PM	0.4	0.017	0.000
12:04:00 PM	0.4	0.017	0.000
12:05:00 PM	0.4	0.017	0.000
12:06:00 PM	0.4	0.017	0.000
12:07:00 PM	0.4	0.017	0.000
12:08:00 PM	0.4	0.017	0.000
12:09:00 PM	0.4	0.018	0.000
12:10:00 PM	0.4	0.018	0.000
12:11:00 PM	0.4	0.019	0.000
12:12:00 PM	0.4	0.018	0.000
12:13:00 PM	0.5	0.018	0.000
12:14:00 PM	0.4	0.018	0.000
12:15:00 PM	0.4	0.017	0.000
12:16:00 PM	0.4	0.017	0.000
12:17:00 PM	0.4	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:18:00 PM	0.4	0.017	0.000
12:19:00 PM	0.4	0.017	0.000
12:20:00 PM	0.4	0.017	0.000
12:21:00 PM	0.4	0.017	0.000
12:22:00 PM	0.4	0.016	0.000
12:23:00 PM	0.4	0.016	0.000
12:24:00 PM	0.4	0.015	0.000
12:25:00 PM	0.4	0.015	0.000
12:26:00 PM	0.4	0.015	0.000
12:27:00 PM	0.5	0.016	0.000
12:28:00 PM	0.5	0.014	0.000
12:29:00 PM	0.4	0.014	0.000
12:30:00 PM	0.5	0.015	0.000
12:31:00 PM	0.4	0.015	0.000
12:32:00 PM	0.4	0.015	0.000
12:33:00 PM	0.5	0.014	0.000
12:34:00 PM	0.5	0.014	0.000
12:35:00 PM	0.5	0.015	0.000
12:36:00 PM	0.5	0.015	0.000
12:37:00 PM	0.5	0.015	0.000
12:38:00 PM	0.4	0.016	0.000
12:39:00 PM	0.4	0.015	0.000
12:40:00 PM	0.5	0.015	0.000
12:41:00 PM	0.4	0.015	0.000
12:42:00 PM	0.4	0.015	0.000
12:43:00 PM	0.4	0.015	0.000
12:44:00 PM	0.4	0.015	0.000
12:45:00 PM	0.4	0.014	0.000
12:46:00 PM	0.4	0.014	0.000
12:47:00 PM	0.5	0.014	0.000
12:48:00 PM	0.5	0.014	0.000
12:49:00 PM	0.5	0.013	0.000
12:50:00 PM	0.4	0.012	0.000
12:51:00 PM	0.4	0.013	0.000
12:52:00 PM	0.4	0.012	0.000
12:53:00 PM	0.4	0.012	0.000
12:54:00 PM	0.5	0.012	0.000
12:55:00 PM	0.5	0.012	0.000
12:56:00 PM	0.5	0.011	0.000
12:57:00 PM	0.5	0.010	0.000
12:58:00 PM	0.5	0.010	0.000
12:59:00 PM	0.5	0.010	0.000
1:00:00 PM	0.5	0.010	0.000
1:01:00 PM	0.4	0.010	0.000
1:02:00 PM	0.5	0.009	0.000
1:03:00 PM	0.5	0.009	0.000
1:04:00 PM	0.4	0.009	0.000
1:05:00 PM	0.5	0.009	0.000
1:06:00 PM	0.5	0.009	0.000
1:07:00 PM	0.5	0.010	0.000
1:08:00 PM	0.5	0.010	0.000
1:09:00 PM	0.4	0.010	0.000
1:10:00 PM	0.5	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:11:00 PM	0.4	0.010	0.000
1:12:00 PM	0.5	0.009	0.000
1:13:00 PM	0.5	0.009	0.000
1:14:00 PM	0.5	0.009	0.000
1:15:00 PM	0.5	0.009	0.000
1:16:00 PM	0.5	0.009	0.000
1:17:00 PM	0.4	0.009	0.000
1:18:00 PM	0.5	0.008	0.000
1:19:00 PM	0.5	0.009	0.000
1:20:00 PM	0.5	0.009	0.000
1:21:00 PM	0.5	0.009	0.000
1:22:00 PM	0.5	0.009	0.000
1:23:00 PM	0.5	0.009	0.000
1:24:00 PM	0.5	0.008	0.000
1:25:00 PM	0.5	0.008	0.000
1:26:00 PM	0.5	0.008	0.000
1:27:00 PM	0.5	0.008	0.000
1:28:00 PM	0.5	0.008	0.000
1:29:00 PM	0.6	0.009	0.000
1:30:00 PM	0.5	0.008	0.000
1:31:00 PM	0.5	0.008	0.000
1:32:00 PM	0.5	0.009	0.000
1:33:00 PM	0.5	0.008	0.000
1:34:00 PM	0.5	0.008	0.000
1:35:00 PM	0.5	0.013	0.000
1:36:00 PM	0.5	0.019	0.000
1:37:00 PM	0.5	0.018	0.000
1:38:00 PM	0.5	0.012	0.000
1:39:00 PM	0.5	0.016	0.000
1:40:00 PM	0.5	0.009	0.000
1:41:00 PM	0.5	0.009	0.000
1:42:00 PM	0.5	0.010	0.000
1:43:00 PM	0.5	0.009	0.000
1:44:00 PM	0.5	0.009	0.000
1:45:00 PM	0.5	0.015	0.000
1:46:00 PM	0.5	0.010	0.000
1:47:00 PM	0.5	0.009	0.000
1:48:00 PM	0.5	0.013	0.000
1:49:00 PM	0.5	0.011	0.000
1:50:00 PM	0.5	0.011	0.000
1:51:00 PM	0.5	0.008	0.000
1:52:00 PM	0.5	0.008	0.000
1:53:00 PM	0.5	0.024	0.000
1:54:00 PM	0.5	0.010	0.000
1:55:00 PM	0.5	0.010	0.000
1:56:00 PM	0.5	0.011	0.000
1:57:00 PM	0.5	0.010	0.000
1:58:00 PM	0.5	0.009	0.000
1:59:00 PM	0.5	0.011	0.000
2:00:00 PM	0.5	0.010	0.000
2:01:00 PM	0.5	0.010	0.000
2:02:00 PM	0.5	0.009	0.000
2:03:00 PM	0.5	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:04:00 PM	0.5	0.012	0.000
2:05:00 PM	0.5	0.007	0.000
2:06:00 PM	0.5	0.007	0.000
2:07:00 PM	0.5	0.007	0.000
2:08:00 PM	0.5	0.008	0.000
2:09:00 PM	0.5	0.008	0.000
2:10:00 PM	0.5	0.011	0.000
2:11:00 PM	0.5	0.012	0.000
2:12:00 PM	0.5	0.009	0.000
2:13:00 PM	0.5	0.015	0.000
2:14:00 PM	0.5	0.008	0.000
2:15:00 PM	0.5	0.009	0.000
2:16:00 PM	0.5	0.008	0.000
2:17:00 PM	0.5	0.008	0.000
2:18:00 PM	0.5	0.007	0.000
2:19:00 PM	0.5	0.007	0.000
2:20:00 PM	0.5	0.009	0.000
2:21:00 PM	0.5	0.008	0.000
2:22:00 PM	0.5	0.009	0.000
2:23:00 PM	0.5	0.009	0.000
2:24:00 PM	0.5	0.009	0.000
2:25:00 PM	0.5	0.008	0.000
2:26:00 PM	0.5	0.008	0.000
2:27:00 PM	0.5	0.009	0.000
2:28:00 PM	0.5	0.009	0.000
2:29:00 PM	0.5	0.010	0.000
2:30:00 PM	0.5	0.010	0.000
2:31:00 PM	0.5	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:37:00 AM	0.0	0.034	0.000
9:38:00 AM	0.0	0.031	0.000
9:39:00 AM	0.0	0.026	0.000
9:40:00 AM	0.0	0.024	0.000
9:41:00 AM	0.1	0.026	0.000
9:42:00 AM	0.1	0.031	0.000
9:43:00 AM	0.1	0.029	0.000
9:44:00 AM	0.1	0.027	0.000
9:45:00 AM	0.1	0.029	0.000
9:46:00 AM	0.1	0.032	0.000
9:47:00 AM	0.1	0.028	0.000
9:48:00 AM	0.1	0.027	0.000
9:49:00 AM	0.1	0.025	0.000
9:50:00 AM	0.1	0.024	0.000
9:51:00 AM	0.1	0.024	0.000
9:52:00 AM	0.1	0.026	0.000
9:53:00 AM	0.1	0.029	0.000
9:54:00 AM	0.1	0.030	0.000
9:55:00 AM	0.1	0.026	0.000
9:56:00 AM	0.1	0.026	0.000
9:57:00 AM	0.1	0.028	0.000
9:58:00 AM	0.1	0.030	0.000
9:59:00 AM	0.1	0.029	0.000
10:00:00 AM	0.1	0.030	0.000
10:01:00 AM	0.1	0.030	0.000
10:02:00 AM	0.1	0.030	0.000
10:03:00 AM	0.1	0.031	0.000
10:04:00 AM	0.1	0.033	0.000
10:05:00 AM	0.1	0.031	0.000
10:06:00 AM	0.1	0.029	0.000
10:07:00 AM	0.1	0.028	0.000
10:08:00 AM	0.1	0.030	0.000
10:09:00 AM	0.1	0.029	0.000
10:10:00 AM	0.1	0.030	0.000
10:11:00 AM	0.1	0.032	0.000
10:12:00 AM	0.1	0.033	0.000
10:13:00 AM	0.1	0.032	0.000
10:14:00 AM	0.1	0.031	0.000
10:15:00 AM	0.1	0.033	0.000
10:16:00 AM	0.1	0.035	0.000
10:17:00 AM	0.1	0.030	0.000
10:18:00 AM	0.2	0.032	0.000
10:19:00 AM	0.2	0.032	0.000
10:20:00 AM	0.2	0.031	0.000
10:21:00 AM	0.2	0.030	0.000
10:22:00 AM	0.2	0.029	0.000
10:23:00 AM	0.2	0.032	0.000
10:24:00 AM	0.2	0.032	0.000
10:25:00 AM	0.2	0.029	0.000
10:26:00 AM	0.2	0.028	0.000
10:27:00 AM	0.2	0.028	0.000
10:28:00 AM	0.2	0.028	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:29:00 AM	0.2	0.029	0.000
10:30:00 AM	0.2	0.030	0.000
10:31:00 AM	0.2	0.029	0.000
10:32:00 AM	0.2	0.029	0.000
10:33:00 AM	0.2	0.030	0.000
10:34:00 AM	0.2	0.032	0.000
10:35:00 AM	0.2	0.034	0.000
10:36:00 AM	0.2	0.030	0.000
10:37:00 AM	0.2	0.032	0.000
10:38:00 AM	0.2	0.038	0.000
10:39:00 AM	0.2	0.034	0.000
10:40:00 AM	0.2	0.033	0.000
10:41:00 AM	0.2	0.029	0.000
10:42:00 AM	0.2	0.028	0.000
10:43:00 AM	0.2	0.029	0.000
10:44:00 AM	0.2	0.061	0.000
10:45:00 AM	0.2	0.040	0.000
10:46:00 AM	0.2	0.030	0.000
10:47:00 AM	0.2	0.037	0.000
10:48:00 AM	0.2	0.030	0.000
10:49:00 AM	0.2	0.029	0.000
10:50:00 AM	0.2	0.030	0.000
10:51:00 AM	0.2	0.047	0.000
10:52:00 AM	0.2	0.042	0.000
10:53:00 AM	0.2	0.030	0.000
10:54:00 AM	0.2	0.029	0.000
10:55:00 AM	0.2	0.029	0.000
10:56:00 AM	0.2	0.029	0.000
10:57:00 AM	0.2	0.029	0.000
10:58:00 AM	0.2	0.029	0.000
10:59:00 AM	0.2	0.029	0.000
11:00:00 AM	0.2	0.031	0.000
11:01:00 AM	0.2	0.033	0.000
11:02:00 AM	0.2	0.031	0.000
11:03:00 AM	0.2	0.031	0.000
11:04:00 AM	0.2	0.030	0.000
11:05:00 AM	0.2	0.032	0.000
11:06:00 AM	0.2	0.029	0.000
11:07:00 AM	0.2	0.029	0.000
11:08:00 AM	0.2	0.030	0.000
11:09:00 AM	0.2	0.030	0.000
11:10:00 AM	0.2	0.030	0.000
11:11:00 AM	0.2	0.030	0.000
11:12:00 AM	0.2	0.030	0.000
11:13:00 AM	0.2	0.030	0.000
11:14:00 AM	0.2	0.030	0.000
11:15:00 AM	0.2	0.031	0.000
11:16:00 AM	0.2	0.031	0.000
11:17:00 AM	0.2	0.031	0.000
11:18:00 AM	0.2	0.031	0.000
11:19:00 AM	0.2	0.029	0.000
11:20:00 AM	0.2	0.029	0.000
11:21:00 AM	0.2	0.030	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:22:00 AM	0.2	0.032	0.000
11:23:00 AM	0.2	0.030	0.000
11:24:00 AM	0.2	0.032	0.000
11:25:00 AM	0.2	0.030	0.000
11:26:00 AM	0.2	0.032	0.000
11:27:00 AM	0.2	0.031	0.000
11:28:00 AM	0.2	0.031	0.000
11:29:00 AM	0.2	0.032	0.000
11:30:00 AM	0.2	0.030	0.000
11:31:00 AM	0.2	0.029	0.000
11:32:00 AM	0.2	0.029	0.000
11:33:00 AM	0.2	0.030	0.000
11:34:00 AM	0.2	0.029	0.000
11:35:00 AM	0.2	0.028	0.000
11:36:00 AM	0.2	0.028	0.000
11:37:00 AM	0.2	0.028	0.000
11:38:00 AM	0.2	0.029	0.000
11:39:00 AM	0.2	0.038	0.000
11:40:00 AM	0.2	0.038	0.000
11:41:00 AM	0.2	0.031	0.000
11:42:00 AM	0.2	0.033	0.000
11:43:00 AM	0.2	0.030	0.000
11:44:00 AM	0.2	0.033	0.000
11:45:00 AM	0.2	0.027	0.000
11:46:00 AM	0.2	0.030	0.000
11:47:00 AM	0.2	0.034	0.000
11:48:00 AM	0.2	0.028	0.000
11:49:00 AM	0.2	0.028	0.000
11:50:00 AM	0.2	0.036	0.000
11:51:00 AM	0.2	0.028	0.000
11:52:00 AM	0.2	0.026	0.000
11:53:00 AM	0.2	0.034	0.000
11:54:00 AM	0.2	0.032	0.000
11:55:00 AM	0.2	0.029	0.000
11:56:00 AM	0.2	0.028	0.000
11:57:00 AM	0.2	0.031	0.000
11:58:00 AM	0.2	0.031	0.000
11:59:00 AM	0.2	0.029	0.000
12:00:00 PM	0.2	0.032	0.000
12:01:00 PM	0.2	0.026	0.000
12:02:00 PM	0.2	0.028	0.000
12:03:00 PM	0.2	0.028	0.000
12:04:00 PM	0.2	0.028	0.000
12:05:00 PM	0.2	0.027	0.000
12:06:00 PM	0.2	0.025	0.000
12:07:00 PM	0.2	0.026	0.000
12:08:00 PM	0.2	0.029	0.000
12:09:00 PM	0.2	0.031	0.000
12:10:00 PM	0.2	0.025	0.000
12:11:00 PM	0.2	0.023	0.000
12:12:00 PM	0.2	0.020	0.000
12:13:00 PM	0.2	0.019	0.000
12:14:00 PM	0.2	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:15:00 PM	0.2	0.019	0.000
12:16:00 PM	0.2	0.019	0.000
12:17:00 PM	0.2	0.020	0.000
12:18:00 PM	0.2	0.019	0.000
12:19:00 PM	0.2	0.019	0.000
12:20:00 PM	0.2	0.019	0.000
12:21:00 PM	0.2	0.018	0.000
12:22:00 PM	0.2	0.017	0.000
12:23:00 PM	0.2	0.017	0.000
12:24:00 PM	0.2	0.016	0.000
12:25:00 PM	0.2	0.017	0.000
12:26:00 PM	0.2	0.017	0.000
12:27:00 PM	0.2	0.016	0.000
12:28:00 PM	0.2	0.016	0.000
12:29:00 PM	0.2	0.016	0.000
12:30:00 PM	0.2	0.016	0.000
12:31:00 PM	0.2	0.016	0.000
12:32:00 PM	0.2	0.016	0.000
12:33:00 PM	0.2	0.015	0.000
12:34:00 PM	0.2	0.016	0.000
12:35:00 PM	0.2	0.017	0.000
12:36:00 PM	0.2	0.016	0.000
12:37:00 PM	0.2	0.016	0.000
12:38:00 PM	0.2	0.016	0.000
12:39:00 PM	0.2	0.016	0.000
12:40:00 PM	0.2	0.016	0.000
12:41:00 PM	0.2	0.016	0.000
12:42:00 PM	0.2	0.016	0.000
12:43:00 PM	0.2	0.016	0.000
12:44:00 PM	0.2	0.015	0.000
12:45:00 PM	0.2	0.016	0.000
12:46:00 PM	0.2	0.015	0.000
12:47:00 PM	0.2	0.015	0.000
12:48:00 PM	0.2	0.015	0.000
12:49:00 PM	0.2	0.014	0.000
12:50:00 PM	0.2	0.013	0.000
12:51:00 PM	0.2	0.013	0.000
12:52:00 PM	0.2	0.013	0.000
12:53:00 PM	0.2	0.013	0.000
12:54:00 PM	0.2	0.013	0.000
12:55:00 PM	0.2	0.012	0.000
12:56:00 PM	0.2	0.012	0.000
12:57:00 PM	0.2	0.011	0.000
12:58:00 PM	0.2	0.011	0.000
12:59:00 PM	0.2	0.011	0.000
1:00:00 PM	0.2	0.010	0.000
1:01:00 PM	0.2	0.010	0.000
1:02:00 PM	0.2	0.013	0.000
1:03:00 PM	0.2	0.010	0.000
1:04:00 PM	0.2	0.010	0.000
1:05:00 PM	0.2	0.010	0.000
1:06:00 PM	0.2	0.010	0.000
1:07:00 PM	0.2	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:08:00 PM	0.2	0.010	0.000
1:09:00 PM	0.2	0.010	0.000
1:10:00 PM	0.2	0.010	0.000
1:11:00 PM	0.2	0.010	0.000
1:12:00 PM	0.2	0.010	0.000
1:13:00 PM	0.2	0.009	0.000
1:14:00 PM	0.2	0.010	0.000
1:15:00 PM	0.2	0.010	0.000
1:16:00 PM	0.2	0.009	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.2	0.009	0.000
1:19:00 PM	0.2	0.009	0.000
1:20:00 PM	0.2	0.009	0.000
1:21:00 PM	0.2	0.009	0.000
1:22:00 PM	0.2	0.009	0.000
1:23:00 PM	0.2	0.009	0.000
1:24:00 PM	0.2	0.009	0.000
1:25:00 PM	0.2	0.009	0.000
1:26:00 PM	0.2	0.010	0.000
1:27:00 PM	0.2	0.008	0.000
1:28:00 PM	0.2	0.008	0.000
1:29:00 PM	0.2	0.009	0.000
1:30:00 PM	0.2	0.013	0.000
1:31:00 PM	0.2	0.015	0.000
1:32:00 PM	0.2	0.010	0.000
1:33:00 PM	0.2	0.013	0.000
1:34:00 PM	0.2	0.037	0.000
1:35:00 PM	0.2	0.021	0.000
1:36:00 PM	0.2	0.019	0.000
1:37:00 PM	0.2	0.021	0.000
1:38:00 PM	0.2	0.030	0.000
1:39:00 PM	0.2	0.025	0.000
1:40:00 PM	0.2	0.023	0.000
1:41:00 PM	0.2	0.035	0.000
1:42:00 PM	0.2	0.025	0.000
1:43:00 PM	0.2	0.026	0.000
1:44:00 PM	0.2	0.022	0.000
1:45:00 PM	0.2	0.014	0.000
1:46:00 PM	0.2	0.012	0.000
1:47:00 PM	0.2	0.018	0.000
1:48:00 PM	0.2	0.024	0.000
1:49:00 PM	0.2	0.026	0.000
1:50:00 PM	0.2	0.017	0.000
1:51:00 PM	0.2	0.017	0.000
1:52:00 PM	0.2	0.017	0.000
1:53:00 PM	0.2	0.045	0.000
1:54:00 PM	0.2	0.014	0.000
1:55:00 PM	0.2	0.042	0.000
1:56:00 PM	0.2	0.047	0.000
1:57:00 PM	0.2	0.058	0.000
1:58:00 PM	0.2	0.065	0.000
1:59:00 PM	0.2	0.041	0.000
2:00:00 PM	0.2	0.120	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:01:00 PM	0.2	0.027	0.000
2:02:00 PM	0.2	0.037	0.000
2:03:00 PM	0.2	0.027	0.000
2:04:00 PM	0.2	0.018	0.000
2:05:00 PM	0.2	0.02	0.000
2:06:00 PM	0.2	0.013	0.000
2:07:00 PM	0.2	0.013	0.000
2:08:00 PM	0.2	0.011	0.000
2:09:00 PM	0.2	0.011	0.000
2:10:00 PM	0.2	0.022	0.000
2:11:00 PM	0.2	0.020	0.000
2:12:00 PM	0.2	0.015	0.000
2:13:00 PM	0.2	0.014	0.000
2:14:00 PM	0.2	0.011	0.000
2:15:00 PM	0.2	0.011	0.000
2:16:00 PM	0.2	0.009	0.000
2:17:00 PM	0.2	0.008	0.000
2:18:00 PM	0.2	0.010	0.000
2:19:00 PM	0.2	0.095	0.000
2:20:00 PM	0.2	0.017	0.000
2:21:00 PM	0.2	0.012	0.000
2:22:00 PM	0.2	0.012	0.000
2:23:00 PM	0.2	0.011	0.000
2:24:00 PM	0.2	0.010	0.000
2:25:00 PM	0.2	0.022	0.000
2:26:00 PM	0.2	0.024	0.000
2:27:00 PM	0.2	0.014	0.000
2:28:00 PM	0.2	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:48:00 AM	0.0	0.248	0.000
9:49:00 AM	0.0	0.044	0.000
9:50:00 AM	0.0	0.027	0.000
9:51:00 AM	0.0	0.027	0.000
9:52:00 AM	0.0	0.027	0.000
9:53:00 AM	0.0	0.027	0.000
9:54:00 AM	0.0	0.027	0.000
9:55:00 AM	0.0	0.028	0.000
9:56:00 AM	0.0	0.029	0.000
9:57:00 AM	0.0	0.029	0.000
9:58:00 AM	0.0	0.030	0.000
9:59:00 AM	0.0	0.030	0.000
10:00:00 AM	0.0	0.030	0.000
10:01:00 AM	0.0	0.031	0.000
10:02:00 AM	0.0	0.031	0.000
10:03:00 AM	0.0	0.032	0.000
10:04:00 AM	0.0	0.034	0.000
10:05:00 AM	0.0	0.033	0.000
10:06:00 AM	0.0	0.032	0.000
10:07:00 AM	0.0	0.031	0.000
10:08:00 AM	0.0	0.032	0.000
10:09:00 AM	0.0	0.032	0.000
10:10:00 AM	0.0	0.032	0.000
10:11:00 AM	0.0	0.031	0.000
10:12:00 AM	0.0	0.031	0.000
10:13:00 AM	0.0	0.032	0.000
10:14:00 AM	0.0	0.033	0.000
10:15:00 AM	0.0	0.033	0.000
10:16:00 AM	0.0	0.032	0.000
10:17:00 AM	0.0	0.033	0.000
10:18:00 AM	0.0	0.033	0.000
10:19:00 AM	0.0	0.032	0.000
10:20:00 AM	0.0	0.032	0.000
10:21:00 AM	0.0	0.031	0.000
10:22:00 AM	0.0	0.031	0.000
10:23:00 AM	0.0	0.031	0.000
10:24:00 AM	0.0	0.031	0.000
10:25:00 AM	0.0	0.031	0.000
10:26:00 AM	0.0	0.031	0.000
10:27:00 AM	0.1	0.032	0.000
10:28:00 AM	0.1	0.033	0.000
10:29:00 AM	0.1	0.033	0.000
10:30:00 AM	0.1	0.035	0.000
10:31:00 AM	0.1	0.032	0.000
10:32:00 AM	0.1	0.032	0.000
10:33:00 AM	0.1	0.032	0.000
10:34:00 AM	0.1	0.033	0.000
10:35:00 AM	0.1	0.033	0.000
10:36:00 AM	0.1	0.033	0.000
10:37:00 AM	0.1	0.032	0.000
10:38:00 AM	0.1	0.030	0.000
10:39:00 AM	0.1	0.031	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:40:00 AM	0.1	0.030	0.000
10:41:00 AM	0.1	0.031	0.000
10:42:00 AM	0.1	0.030	0.000
10:43:00 AM	0.1	0.030	0.000
10:44:00 AM	0.1	0.031	0.000
10:45:00 AM	0.1	0.031	0.000
10:46:00 AM	0.1	0.033	0.000
10:47:00 AM	0.1	0.028	0.000
10:48:00 AM	0.1	0.028	0.000
10:49:00 AM	0.1	0.029	0.000
10:50:00 AM	0.1	0.029	0.000
10:51:00 AM	0.1	0.029	0.000
10:52:00 AM	0.1	0.029	0.000
10:53:00 AM	0.1	0.029	0.000
10:54:00 AM	0.1	0.029	0.000
10:55:00 AM	0.1	0.030	0.000
10:56:00 AM	0.1	0.030	0.000
10:57:00 AM	0.1	0.030	0.000
10:58:00 AM	0.1	0.030	0.000
10:59:00 AM	0.1	0.030	0.000
11:00:00 AM	0.1	0.031	0.000
11:01:00 AM	0.1	0.030	0.000
11:02:00 AM	0.1	0.029	0.000
11:03:00 AM	0.1	0.030	0.000
11:04:00 AM	0.1	0.033	0.000
11:05:00 AM	0.1	0.031	0.000
11:06:00 AM	0.1	0.037	0.000
11:07:00 AM	0.1	0.031	0.000
11:08:00 AM	0.1	0.031	0.000
11:09:00 AM	0.1	0.031	0.000
11:10:00 AM	0.1	0.030	0.000
11:11:00 AM	0.1	0.031	0.000
11:12:00 AM	0.1	0.030	0.000
11:13:00 AM	0.1	0.031	0.000
11:14:00 AM	0.1	0.031	0.000
11:15:00 AM	0.1	0.030	0.000
11:16:00 AM	0.1	0.033	0.000
11:17:00 AM	0.1	0.032	0.000
11:18:00 AM	0.1	0.033	0.000
11:19:00 AM	0.1	0.031	0.000
11:20:00 AM	0.1	0.031	0.000
11:21:00 AM	0.1	0.031	0.000
11:22:00 AM	0.1	0.031	0.000
11:23:00 AM	0.1	0.031	0.000
11:24:00 AM	0.1	0.031	0.000
11:25:00 AM	0.1	0.032	0.000
11:26:00 AM	0.1	0.035	0.000
11:27:00 AM	0.1	0.030	0.000
11:28:00 AM	0.1	0.029	0.000
11:29:00 AM	0.1	0.030	0.000
11:30:00 AM	0.1	0.030	0.000
11:31:00 AM	0.1	0.032	0.000
11:32:00 AM	0.1	0.031	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:33:00 AM	0.1	0.030	0.000
11:34:00 AM	0.1	0.028	0.000
11:35:00 AM	0.1	0.029	0.000
11:36:00 AM	0.1	0.030	0.000
11:37:00 AM	0.1	0.032	0.000
11:38:00 AM	0.1	0.033	0.000
11:39:00 AM	0.1	0.033	0.000
11:40:00 AM	0.1	0.031	0.000
11:41:00 AM	0.1	0.027	0.000
11:42:00 AM	0.1	0.028	0.000
11:43:00 AM	0.1	0.027	0.000
11:44:00 AM	0.1	0.027	0.000
11:45:00 AM	0.1	0.026	0.000
11:46:00 AM	0.1	0.027	0.000
11:47:00 AM	0.1	0.026	0.000
11:48:00 AM	0.1	0.027	0.000
11:49:00 AM	0.1	0.027	0.000
11:50:00 AM	0.1	0.026	0.000
11:51:00 AM	0.1	0.024	0.000
11:52:00 AM	0.1	0.023	0.000
11:53:00 AM	0.1	0.023	0.000
11:54:00 AM	0.1	0.021	0.000
11:55:00 AM	0.1	0.023	0.000
11:56:00 AM	0.1	0.023	0.000
11:57:00 AM	0.1	0.024	0.000
11:58:00 AM	0.1	0.023	0.000
11:59:00 AM	0.1	0.024	0.000
12:00:00 PM	0.1	0.024	0.000
12:01:00 PM	0.1	0.022	0.000
12:02:00 PM	0.1	0.021	0.000
12:03:00 PM	0.1	0.021	0.000
12:04:00 PM	0.1	0.019	0.000
12:05:00 PM	0.1	0.019	0.000
12:06:00 PM	0.1	0.020	0.000
12:07:00 PM	0.1	0.020	0.000
12:08:00 PM	0.1	0.021	0.000
12:09:00 PM	0.1	0.021	0.000
12:10:00 PM	0.1	0.022	0.000
12:11:00 PM	0.1	0.021	0.000
12:12:00 PM	0.1	0.020	0.000
12:13:00 PM	0.1	0.020	0.000
12:14:00 PM	0.1	0.020	0.000
12:15:00 PM	0.1	0.020	0.000
12:16:00 PM	0.1	0.020	0.000
12:17:00 PM	0.1	0.020	0.000
12:18:00 PM	0.1	0.020	0.000
12:19:00 PM	0.1	0.020	0.000
12:20:00 PM	0.1	0.020	0.000
12:21:00 PM	0.1	0.019	0.000
12:22:00 PM	0.1	0.018	0.000
12:23:00 PM	0.1	0.018	0.000
12:24:00 PM	0.1	0.017	0.000
12:25:00 PM	0.1	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:26:00 PM	0.1	0.018	0.000
12:27:00 PM	0.1	0.017	0.000
12:28:00 PM	0.1	0.016	0.000
12:29:00 PM	0.1	0.016	0.000
12:30:00 PM	0.1	0.017	0.000
12:31:00 PM	0.1	0.017	0.000
12:32:00 PM	0.1	0.017	0.000
12:33:00 PM	0.1	0.016	0.000
12:34:00 PM	0.1	0.017	0.000
12:35:00 PM	0.1	0.018	0.000
12:36:00 PM	0.1	0.017	0.000
12:37:00 PM	0.1	0.016	0.000
12:38:00 PM	0.1	0.017	0.000
12:39:00 PM	0.1	0.017	0.000
12:40:00 PM	0.1	0.017	0.000
12:41:00 PM	0.1	0.017	0.000
12:42:00 PM	0.1	0.018	0.000
12:43:00 PM	0.1	0.018	0.000
12:44:00 PM	0.1	0.016	0.000
12:45:00 PM	0.1	0.016	0.000
12:46:00 PM	0.1	0.016	0.000
12:47:00 PM	0.1	0.016	0.000
12:48:00 PM	0.1	0.015	0.000
12:49:00 PM	0.1	0.015	0.000
12:50:00 PM	0.1	0.014	0.000
12:51:00 PM	0.1	0.014	0.000
12:52:00 PM	0.1	0.013	0.000
12:53:00 PM	0.1	0.014	0.000
12:54:00 PM	0.1	0.014	0.000
12:55:00 PM	0.1	0.013	0.000
12:56:00 PM	0.1	0.012	0.000
12:57:00 PM	0.1	0.011	0.000
12:58:00 PM	0.1	0.011	0.000
12:59:00 PM	0.1	0.012	0.000
1:00:00 PM	0.1	0.011	0.000
1:01:00 PM	0.1	0.011	0.000
1:02:00 PM	0.1	0.011	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.012	0.000
1:05:00 PM	0.1	0.011	0.000
1:06:00 PM	0.1	0.016	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.1	0.010	0.000
1:09:00 PM	0.1	0.011	0.000
1:10:00 PM	0.1	0.010	0.000
1:11:00 PM	0.1	0.010	0.000
1:12:00 PM	0.1	0.010	0.000
1:13:00 PM	0.1	0.010	0.000
1:14:00 PM	0.1	0.009	0.000
1:15:00 PM	0.1	0.009	0.000
1:16:00 PM	0.1	0.009	0.000
1:17:00 PM	0.1	0.008	0.000
1:18:00 PM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:19:00 PM	0.1	0.009	0.000
1:20:00 PM	0.1	0.010	0.000
1:21:00 PM	0.1	0.014	0.000
1:22:00 PM	0.1	0.008	0.000
1:23:00 PM	0.1	0.008	0.000
1:24:00 PM	0.1	0.008	0.000
1:25:00 PM	0.1	0.008	0.000
1:26:00 PM	0.1	0.008	0.000
1:27:00 PM	0.1	0.008	0.000
1:28:00 PM	0.1	0.008	0.000
1:29:00 PM	0.1	0.007	0.000
1:30:00 PM	0.1	0.007	0.000
1:31:00 PM	0.1	0.008	0.000
1:32:00 PM	0.1	0.009	0.000
1:33:00 PM	0.1	0.008	0.000
1:34:00 PM	0.1	0.008	0.000
1:35:00 PM	0.1	0.009	0.000
1:36:00 PM	0.1	0.009	0.000
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.1	0.007	0.000
1:39:00 PM	0.1	0.008	0.000
1:40:00 PM	0.1	0.008	0.000
1:41:00 PM	0.1	0.008	0.000
1:42:00 PM	0.1	0.008	0.000
1:43:00 PM	0.1	0.008	0.000
1:44:00 PM	0.1	0.008	0.000
1:45:00 PM	0.1	0.008	0.000
1:46:00 PM	0.1	0.008	0.000
1:47:00 PM	0.1	0.008	0.000
1:48:00 PM	0.1	0.009	0.000
1:49:00 PM	0.1	0.009	0.000
1:50:00 PM	0.1	0.009	0.000
1:51:00 PM	0.1	0.008	0.000
1:52:00 PM	0.1	0.009	0.000
1:53:00 PM	0.1	0.007	0.000
1:54:00 PM	0.1	0.008	0.000
1:55:00 PM	0.1	0.007	0.000
1:56:00 PM	0.1	0.007	0.000
1:57:00 PM	0.1	0.008	0.000
1:58:00 PM	0.1	0.009	0.000
1:59:00 PM	0.1	0.009	0.000
2:00:00 PM	0.1	0.011	0.000
2:01:00 PM	0.1	0.008	0.000
2:02:00 PM	0.1	0.008	0.000
2:03:00 PM	0.1	0.008	0.000
2:04:00 PM	0.1	0.007	0.000
2:05:00 PM	0.1	0.007	0.000
2:06:00 PM	0.1	0.008	0.000
2:07:00 PM	0.1	0.007	0.000
2:08:00 PM	0.1	0.007	0.000
2:09:00 PM	0.1	0.007	0.000
2:10:00 PM	0.1	0.007	0.000
2:11:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:12:00 PM	0.1	0.008	0.000
2:13:00 PM	0.1	0.008	0.000
2:14:00 PM	0.1	0.008	0.000
2:15:00 PM	0.1	0.008	0.000
2:16:00 PM	0.1	0.007	0.000
2:17:00 PM	0.1	0.007	0.000
2:18:00 PM	0.1	0.007	0.000
2:19:00 PM	0.1	0.007	0.000
2:20:00 PM	0.1	0.007	0.000
2:21:00 PM	0.1	0.007	0.000
2:22:00 PM	0.1	0.008	0.000
2:23:00 PM	0.1	0.007	0.000
2:24:00 PM	0.1	0.007	0.000
2:25:00 PM	0.1	0.007	0.000
2:26:00 PM	0.1	0.008	0.000
2:27:00 PM	0.1	0.009	0.000
2:28:00 PM	0.1	0.008	0.000
2:29:00 PM	0.1	0.01	0.000
2:30:00 PM	0.1	0.01	0.000
2:31:00 PM	0.1	0.009	0.000
2:32:00 PM	0.1	0.009	0.000
2:33:00 PM	0.1	0.009	0.000
2:34:00 PM	0.1	0.01	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 15 mph	Date:	1/7/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues to excavate area #4 within the new sheeting box and on the southeastern corner of area #4. All soils placed within the stockpile area on plastic. Preferred screening soils for VOCs and Mercury vapor, field screening of soils did not return results above background levels of 0.000 mg/m3 and 0.0 PPM. Aarco continues to install the digging box as the excavation advances. Aarco also loads out one truck of soils for disposal at Clean Earth. Preferred collected endpoint sample CM-EP-11 B(6') and submitted the same for analysis. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.3	0.008	0.000	0.4	0.010	0.000
Down Wind	0.1	0.009	0.000	0.1	0.015	0.000
Work Zone	0.2	0.010	0.000	0.2	0.015	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco excavating within area #4.



Preferred screening excavated soils for VOCs and mercury.

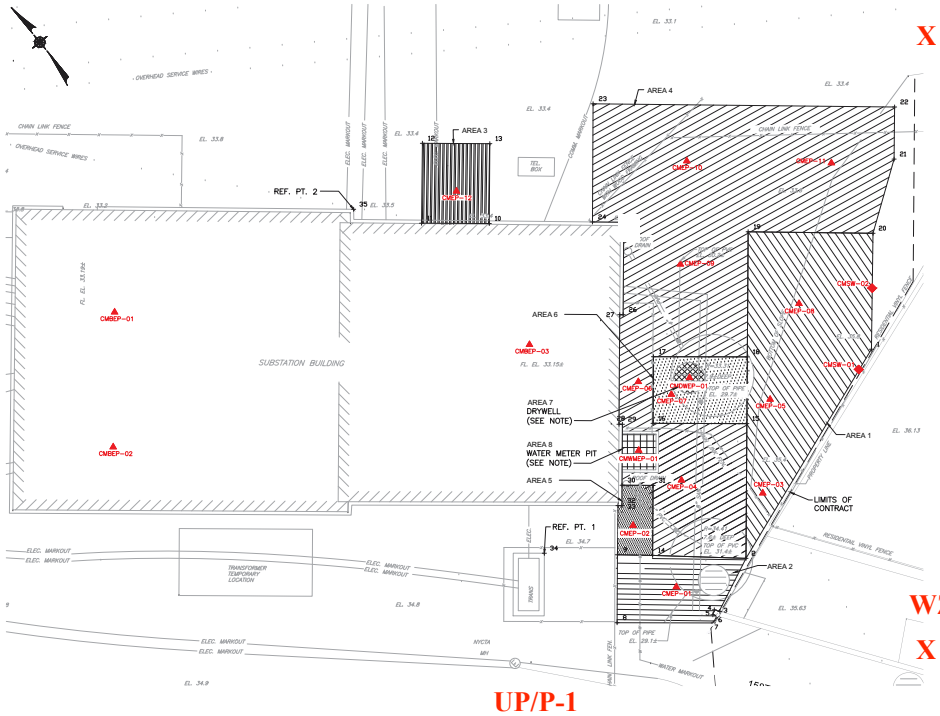


Aarco loading one truck with soil for disposal at Clean Earth.



Preferred collecting endpoint sample from within area #4

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:11:00 AM	0.0		0.000
9:12:00 AM	0.0	0.020	0.000
9:13:00 AM	0.0	0.008	0.000
9:14:00 AM	0.0	0.007	0.000
9:15:00 AM	0.0	0.006	0.000
9:16:00 AM	0.0	0.007	0.000
9:17:00 AM	0.0	0.006	0.000
9:18:00 AM	0.0	0.007	0.000
9:19:00 AM	0.0	0.007	0.000
9:20:00 AM	0.0	0.007	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.006	0.000
9:24:00 AM	0.0	0.007	0.000
9:25:00 AM	0.0	0.007	0.000
9:26:00 AM	0.0	0.010	0.000
9:27:00 AM	0.0	0.006	0.000
9:28:00 AM	0.0	0.006	0.000
9:29:00 AM	0.0	0.006	0.000
9:30:00 AM	0.0	0.006	0.000
9:31:00 AM	0.0	0.006	0.000
9:32:00 AM	0.0	0.007	0.000
9:33:00 AM	0.0	0.007	0.000
9:34:00 AM	0.0	0.006	0.000
9:35:00 AM	0.0	0.006	0.000
9:36:00 AM	0.0	0.006	0.000
9:37:00 AM	0.0	0.007	0.000
9:38:00 AM	0.0	0.006	0.000
9:39:00 AM	0.1	0.006	0.000
9:40:00 AM	0.1	0.010	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.1	0.006	0.000
9:43:00 AM	0.1	0.006	0.000
9:44:00 AM	0.1	0.007	0.000
9:45:00 AM	0.1	0.011	0.000
9:46:00 AM	0.1	0.008	0.000
9:47:00 AM	0.1	0.008	0.000
9:48:00 AM	0.1	0.008	0.000
9:49:00 AM	0.1	0.006	0.000
9:50:00 AM	0.1	0.006	0.000
9:51:00 AM	0.1	0.008	0.000
9:52:00 AM	0.1	0.009	0.000
9:53:00 AM	0.1	0.007	0.000
9:54:00 AM	0.1	0.007	0.000
9:55:00 AM	0.1	0.011	0.000
9:56:00 AM	0.1	0.007	0.000
9:57:00 AM	0.2	0.009	0.000
9:58:00 AM	0.2	0.011	0.000
9:59:00 AM	0.1	0.008	0.000
10:00:00 AM	0.1	0.008	0.000
10:01:00 AM	0.2	0.007	0.000
10:02:00 AM	0.2	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:03:00 AM	0.2	0.006	0.000
10:04:00 AM	0.2	0.009	0.000
10:05:00 AM	0.2	0.007	0.000
10:06:00 AM	0.2	0.007	0.000
10:07:00 AM	0.2	0.007	0.000
10:08:00 AM	0.2	0.008	0.000
10:09:00 AM	0.2	0.008	0.000
10:10:00 AM	0.2	0.011	0.000
10:11:00 AM	0.2	0.010	0.000
10:12:00 AM	0.2	0.008	0.000
10:13:00 AM	0.2	0.008	0.000
10:14:00 AM	0.2	0.025	0.000
10:15:00 AM	0.2	0.008	0.000
10:16:00 AM	0.2	0.008	0.000
10:17:00 AM	0.2	0.007	0.000
10:18:00 AM	0.2	0.008	0.000
10:19:00 AM	0.2	0.007	0.000
10:20:00 AM	0.2	0.012	0.000
10:21:00 AM	0.2	0.012	0.000
10:22:00 AM	0.2	0.008	0.000
10:23:00 AM	0.2	0.008	0.000
10:24:00 AM	0.3	0.010	0.000
10:25:00 AM	0.3	0.008	0.000
10:26:00 AM	0.3	0.008	0.000
10:27:00 AM	0.3	0.008	0.000
10:28:00 AM	0.3	0.008	0.000
10:29:00 AM	0.3	0.016	0.000
10:30:00 AM	0.2	0.017	0.000
10:31:00 AM	0.3	0.008	0.000
10:32:00 AM	0.3	0.008	0.000
10:33:00 AM	0.3	0.008	0.000
10:34:00 AM	0.3	0.007	0.000
10:35:00 AM	0.3	0.007	0.000
10:36:00 AM	0.3	0.007	0.000
10:37:00 AM	0.3	0.007	0.000
10:38:00 AM	0.3	0.008	0.000
10:39:00 AM	0.3	0.008	0.000
10:40:00 AM	0.3	0.008	0.000
10:41:00 AM	0.3	0.008	0.000
10:42:00 AM	0.3	0.008	0.000
10:43:00 AM	0.3	0.008	0.000
10:44:00 AM	0.3	0.008	0.000
10:45:00 AM	0.3	0.008	0.000
10:46:00 AM	0.3	0.008	0.000
10:47:00 AM	0.3	0.008	0.000
10:48:00 AM	0.3	0.008	0.000
10:49:00 AM	0.3	0.008	0.000
10:50:00 AM	0.3	0.007	0.000
10:51:00 AM	0.3	0.007	0.000
10:52:00 AM	0.3	0.007	0.000
10:53:00 AM	0.3	0.007	0.000
10:54:00 AM	0.3	0.007	0.000
10:55:00 AM	0.3	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:56:00 AM	0.3	0.007	0.000
10:57:00 AM	0.3	0.007	0.000
10:58:00 AM	0.3	0.007	0.000
10:59:00 AM	0.3	0.008	0.000
11:00:00 AM	0.3	0.006	0.000
11:01:00 AM	0.3	0.006	0.000
11:02:00 AM	0.3	0.007	0.000
11:03:00 AM	0.3	0.007	0.000
11:04:00 AM	0.3	0.007	0.000
11:05:00 AM	0.4	0.007	0.000
11:06:00 AM	0.3	0.007	0.000
11:07:00 AM	0.4	0.007	0.000
11:08:00 AM	0.3	0.006	0.000
11:09:00 AM	0.4	0.006	0.000
11:10:00 AM	0.4	0.007	0.000
11:11:00 AM	0.3	0.007	0.000
11:12:00 AM	0.4	0.007	0.000
11:13:00 AM	0.4	0.011	0.000
11:14:00 AM	0.4	0.010	0.000
11:15:00 AM	0.3	0.007	0.000
11:16:00 AM	0.3	0.007	0.000
11:17:00 AM	0.4	0.015	0.000
11:18:00 AM	0.3	0.008	0.000
11:19:00 AM	0.3	0.007	0.000
11:20:00 AM	0.3	0.011	0.000
11:21:00 AM	0.3	0.008	0.000
11:22:00 AM	0.4	0.009	0.000
11:23:00 AM	0.4	0.008	0.000
11:24:00 AM	0.4	0.011	0.000
11:25:00 AM	0.4	0.009	0.000
11:26:00 AM	0.4	0.007	0.000
11:27:00 AM	0.4	0.008	0.000
11:28:00 AM	0.4	0.014	0.000
11:29:00 AM	0.3	0.012	0.000
11:30:00 AM	0.4	0.008	0.000
11:31:00 AM	0.4	0.008	0.000
11:32:00 AM	0.4	0.008	0.000
11:33:00 AM	0.4	0.008	0.000
11:34:00 AM	0.4	0.009	0.000
11:35:00 AM	0.4	0.009	0.000
11:36:00 AM	0.4	0.008	0.000
11:37:00 AM	0.4	0.009	0.000
11:38:00 AM	0.4	0.008	0.000
11:39:00 AM	0.4	0.009	0.000
11:40:00 AM	0.4	0.008	0.000
11:41:00 AM	0.4	0.008	0.000
11:42:00 AM	0.4	0.008	0.000
11:43:00 AM	0.4	0.008	0.000
11:44:00 AM	0.4	0.008	0.000
11:45:00 AM	0.4	0.008	0.000
11:46:00 AM	0.4	0.020	0.000
11:47:00 AM	0.4	0.011	0.000
11:48:00 AM	0.4	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:49:00 AM	0.4	0.008	0.000
11:50:00 AM	0.4	0.008	0.000
11:51:00 AM	0.4	0.009	0.000
11:52:00 AM	0.4	0.009	0.000
11:53:00 AM	0.4	0.008	0.000
11:54:00 AM	0.4	0.008	0.000
11:55:00 AM	0.4	0.008	0.000
11:56:00 AM	0.4	0.008	0.000
11:57:00 AM	0.4	0.008	0.000
11:58:00 AM	0.4	0.007	0.000
11:59:00 AM	0.4	0.008	0.000
12:00:00 PM	0.4	0.008	0.000
12:01:00 PM	0.4	0.008	0.000
12:02:00 PM	0.4	0.008	0.000
12:03:00 PM	0.4	0.008	0.000
12:04:00 PM	0.4	0.008	0.000
12:05:00 PM	0.4	0.008	0.000
12:06:00 PM	0.4	0.008	0.000
12:07:00 PM	0.4	0.008	0.000
12:08:00 PM	0.4	0.008	0.000
12:09:00 PM	0.4	0.008	0.000
12:10:00 PM	0.4	0.008	0.000
12:11:00 PM	0.4	0.008	0.000
12:12:00 PM	0.4	0.008	0.000
12:13:00 PM	0.4	0.008	0.000
12:14:00 PM	0.4	0.008	0.000
12:15:00 PM	0.4	0.008	0.000
12:16:00 PM	0.4	0.008	0.000
12:17:00 PM	0.4	0.007	0.000
12:18:00 PM	0.4	0.007	0.000
12:19:00 PM	0.4	0.008	0.000
12:20:00 PM	0.4	0.007	0.000
12:21:00 PM	0.4	0.007	0.000
12:22:00 PM	0.4	0.007	0.000
12:23:00 PM	0.4	0.006	0.000
12:24:00 PM	0.4	0.007	0.000
12:25:00 PM	0.4	0.006	0.000
12:26:00 PM	0.4	0.007	0.000
12:27:00 PM	0.4	0.008	0.000
12:28:00 PM	0.4	0.007	0.000
12:29:00 PM	0.4	0.006	0.000
12:30:00 PM	0.4	0.008	0.000
12:31:00 PM	0.4	0.007	0.000
12:32:00 PM	0.4	0.007	0.000
12:33:00 PM	0.4	0.007	0.000
12:34:00 PM	0.4	0.007	0.000
12:35:00 PM	0.4	0.007	0.000
12:36:00 PM	0.4	0.007	0.000
12:37:00 PM	0.4	0.007	0.000
12:38:00 PM	0.4	0.007	0.000
12:39:00 PM	0.4	0.007	0.000
12:40:00 PM	0.4	0.007	0.000
12:41:00 PM	0.4	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:42:00 PM	0.4	0.007	0.000
12:43:00 PM	0.4	0.007	0.000
12:44:00 PM	0.4	0.007	0.000
12:45:00 PM	0.4	0.007	0.000
12:46:00 PM	0.5	0.007	0.000
12:47:00 PM	0.4	0.008	0.000
12:48:00 PM	0.4	0.007	0.000
12:49:00 PM	0.4	0.007	0.000
12:50:00 PM	0.4	0.008	0.000
12:51:00 PM	0.4	0.008	0.000
12:52:00 PM	0.4	0.008	0.000
12:53:00 PM	0.4	0.008	0.000
12:54:00 PM	0.4	0.009	0.000
12:55:00 PM	0.5	0.009	0.000
12:56:00 PM	0.4	0.008	0.000
12:57:00 PM	0.4	0.008	0.000
12:58:00 PM	0.4	0.009	0.000
12:59:00 PM	0.4	0.009	0.000
1:00:00 PM	0.4	0.008	0.000
1:01:00 PM	0.5	0.007	0.000
1:02:00 PM	0.4	0.006	0.000
1:03:00 PM	0.4	0.007	0.000
1:04:00 PM	0.4	0.007	0.000
1:05:00 PM	0.4	0.007	0.000
1:06:00 PM	0.4	0.006	0.000
1:07:00 PM	0.4	0.006	0.000
1:08:00 PM	0.4	0.006	0.000
1:09:00 PM	0.4	0.006	0.000
1:10:00 PM	0.4	0.007	0.000
1:11:00 PM	0.4	0.007	0.000
1:12:00 PM	0.4	0.007	0.000
1:13:00 PM	0.4	0.006	0.000
1:14:00 PM	0.4	0.006	0.000
1:15:00 PM	0.4	0.006	0.000
1:16:00 PM	0.4	0.006	0.000
1:17:00 PM	0.4	0.006	0.000
1:18:00 PM	0.4	0.007	0.000
1:19:00 PM	0.4	0.006	0.000
1:20:00 PM	0.4	0.006	0.000
1:21:00 PM	0.4	0.006	0.000
1:22:00 PM	0.4	0.006	0.000
1:23:00 PM	0.4	0.006	0.000
1:24:00 PM	0.4	0.005	0.000
1:25:00 PM	0.4	0.005	0.000
1:26:00 PM	0.4	0.006	0.000
1:27:00 PM	0.4	0.006	0.000
1:28:00 PM	0.4	0.012	0.000
1:29:00 PM	0.4	0.006	0.000
1:30:00 PM	0.4	0.006	0.000
1:31:00 PM	0.5	0.009	0.000
1:32:00 PM	0.4	0.025	0.000
1:33:00 PM	0.4	0.007	0.000
1:34:00 PM	0.4	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:35:00 PM	0.4	0.007	0.000
1:36:00 PM	0.4	0.006	0.000
1:37:00 PM	0.4	0.010	0.000
1:38:00 PM	0.5	0.007	0.000
1:39:00 PM	0.4	0.006	0.000
1:40:00 PM	0.4	0.006	0.000
1:41:00 PM	0.5	0.006	0.000
1:42:00 PM	0.4	0.006	0.000
1:43:00 PM	0.5	0.006	0.000
1:44:00 PM	0.5	0.006	0.000
1:45:00 PM	0.4	0.006	0.000
1:46:00 PM	0.4	0.008	0.000
1:47:00 PM	0.5	0.007	0.000
1:48:00 PM	0.5	0.006	0.000
1:49:00 PM	0.5	0.006	0.000
1:50:00 PM	0.5	0.019	0.000
1:51:00 PM	0.5	0.007	0.000
1:52:00 PM	0.4	0.006	0.000
1:53:00 PM	0.5	0.006	0.000
1:54:00 PM	0.5	0.006	0.000
1:55:00 PM	0.5	0.006	0.000
1:56:00 PM	0.5	0.006	0.000
1:57:00 PM	0.5	0.006	0.000
1:58:00 PM	0.5	0.006	0.000
1:59:00 PM	0.4	0.006	0.000
2:00:00 PM	0.4	0.006	0.000
2:01:00 PM	0.5	0.006	0.000
2:02:00 PM	0.5	0.006	0.000
2:03:00 PM	0.4	0.006	0.000
2:04:00 PM	0.5	0.008	0.000
2:05:00 PM	0.5	0.009	0.000
2:06:00 PM	0.5	0.006	0.000
2:07:00 PM	0.5	0.006	0.000
2:08:00 PM	0.4	0.006	0.000
2:09:00 PM	0.5	0.007	0.000
2:10:00 PM	0.5	0.006	0.000
2:11:00 PM	0.4	0.006	0.000
2:12:00 PM	0.5	0.006	0.000
2:13:00 PM	0.5	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:30:00 AM	0.1	0.021	0.000
9:31:00 AM	0.1	0.027	0.000
9:32:00 AM	0.2	0.014	0.000
9:33:00 AM	0.1	0.014	0.000
9:34:00 AM	0.1	0.008	0.000
9:35:00 AM	0.1	0.007	0.000
9:36:00 AM	0.1	0.007	0.000
9:37:00 AM	0.1	0.011	0.000
9:38:00 AM	0.1	0.009	0.000
9:39:00 AM	0.1	0.012	0.000
9:40:00 AM	0.1	0.012	0.000
9:41:00 AM	0.1	0.009	0.000
9:42:00 AM	0.1	0.007	0.000
9:43:00 AM	0.1	0.009	0.000
9:44:00 AM	0.1	0.010	0.000
9:45:00 AM	0.1	0.012	0.000
9:46:00 AM	0.1	0.012	0.000
9:47:00 AM	0.1	0.016	0.000
9:48:00 AM	0.1	0.014	0.000
9:49:00 AM	0.1	0.013	0.000
9:50:00 AM	0.1	0.011	0.000
9:51:00 AM	0.1	0.014	0.000
9:52:00 AM	0.1	0.018	0.000
9:53:00 AM	0.1	0.011	0.000
9:54:00 AM	0.1	0.013	0.000
9:55:00 AM	0.1	0.017	0.000
9:56:00 AM	0.1	0.014	0.000
9:57:00 AM	0.1	0.010	0.000
9:58:00 AM	0.1	0.013	0.000
9:59:00 AM	0.1	0.010	0.000
10:00:00 AM	0.1	0.009	0.000
10:01:00 AM	0.1	0.008	0.000
10:02:00 AM	0.2	0.014	0.000
10:03:00 AM	0.2	0.012	0.000
10:04:00 AM	0.1	0.017	0.000
10:05:00 AM	0.2	0.013	0.000
10:06:00 AM	0.2	0.009	0.000
10:07:00 AM	0.2	0.016	0.000
10:08:00 AM	0.2	0.019	0.000
10:09:00 AM	0.2	0.011	0.000
10:10:00 AM	0.2	0.014	0.000
10:11:00 AM	0.2	0.022	0.000
10:12:00 AM	0.2	0.015	0.000
10:13:00 AM	0.2	0.011	0.000
10:14:00 AM	0.2	0.015	0.000
10:15:00 AM	0.2	0.010	0.000
10:16:00 AM	0.2	0.009	0.000
10:17:00 AM	0.2	0.011	0.000
10:18:00 AM	0.2	0.010	0.000
10:19:00 AM	0.2	0.009	0.000
10:20:00 AM	0.2	0.017	0.000
10:21:00 AM	0.2	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:22:00 AM	0.2	0.013	0.000
10:23:00 AM	0.2	0.018	0.000
10:24:00 AM	0.2	0.012	0.000
10:25:00 AM	0.2	0.009	0.000
10:26:00 AM	0.2	0.012	0.000
10:27:00 AM	0.2	0.010	0.000
10:28:00 AM	0.2	0.012	0.000
10:29:00 AM	0.2	0.012	0.000
10:30:00 AM	0.2	0.017	0.000
10:31:00 AM	0.2	0.010	0.000
10:32:00 AM	0.2	0.009	0.000
10:33:00 AM	0.2	0.008	0.000
10:34:00 AM	0.2	0.008	0.000
10:35:00 AM	0.2	0.008	0.000
10:36:00 AM	0.2	0.010	0.000
10:37:00 AM	0.2	0.011	0.000
10:38:00 AM	0.2	0.011	0.000
10:39:00 AM	0.2	0.010	0.000
10:40:00 AM	0.2	0.010	0.000
10:41:00 AM	0.2	0.010	0.000
10:42:00 AM	0.2	0.009	0.000
10:43:00 AM	0.2	0.011	0.000
10:44:00 AM	0.2	0.009	0.000
10:45:00 AM	0.2	0.011	0.000
10:46:00 AM	0.2	0.013	0.000
10:47:00 AM	0.2	0.010	0.000
10:48:00 AM	0.2	0.010	0.000
10:49:00 AM	0.2	0.009	0.000
10:50:00 AM	0.2	0.008	0.000
10:51:00 AM	0.2	0.007	0.000
10:52:00 AM	0.2	0.007	0.000
10:53:00 AM	0.2	0.007	0.000
10:54:00 AM	0.2	0.007	0.000
10:55:00 AM	0.2	0.007	0.000
10:56:00 AM	0.2	0.007	0.000
10:57:00 AM	0.2	0.007	0.000
10:58:00 AM	0.2	0.008	0.000
10:59:00 AM	0.2	0.008	0.000
11:00:00 AM	0.2	0.008	0.000
11:01:00 AM	0.2	0.008	0.000
11:02:00 AM	0.2	0.007	0.000
11:03:00 AM	0.2	0.007	0.000
11:04:00 AM	0.2	0.007	0.000
11:05:00 AM	0.2	0.007	0.000
11:06:00 AM	0.2	0.007	0.000
11:07:00 AM	0.2	0.008	0.000
11:08:00 AM	0.2	0.008	0.000
11:09:00 AM	0.2	0.007	0.000
11:10:00 AM	0.2	0.009	0.000
11:11:00 AM	0.2	0.010	0.000
11:12:00 AM	0.2	0.011	0.000
11:13:00 AM	0.2	0.013	0.000
11:14:00 AM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:15:00 AM	0.2	0.010	0.000
11:16:00 AM	0.2	0.009	0.000
11:17:00 AM	0.2	0.017	0.000
11:18:00 AM	0.2	0.017	0.000
11:19:00 AM	0.2	0.013	0.000
11:20:00 AM	0.2	0.028	0.000
11:21:00 AM	0.2	0.015	0.000
11:22:00 AM	0.2	0.015	0.000
11:23:00 AM	0.2	0.012	0.000
11:24:00 AM	0.2	0.016	0.000
11:25:00 AM	0.2	0.016	0.000
11:26:00 AM	0.2	0.008	0.000
11:27:00 AM	0.2	0.013	0.000
11:28:00 AM	0.2	0.017	0.000
11:29:00 AM	0.2	0.010	0.000
11:30:00 AM	0.2	0.009	0.000
11:31:00 AM	0.2	0.008	0.000
11:32:00 AM	0.2	0.008	0.000
11:33:00 AM	0.2	0.008	0.000
11:34:00 AM	0.2	0.009	0.000
11:35:00 AM	0.2	0.016	0.000
11:36:00 AM	0.2	0.009	0.000
11:37:00 AM	0.2	0.009	0.000
11:38:00 AM	0.2	0.009	0.000
11:39:00 AM	0.2	0.010	0.000
11:40:00 AM	0.2	0.009	0.000
11:41:00 AM	0.2	0.009	0.000
11:42:00 AM	0.2	0.009	0.000
11:43:00 AM	0.2	0.008	0.000
11:44:00 AM	0.2	0.009	0.000
11:45:00 AM	0.2	0.009	0.000
11:46:00 AM	0.2	0.011	0.000
11:47:00 AM	0.2	0.015	0.000
11:48:00 AM	0.2	0.009	0.000
11:49:00 AM	0.2	0.011	0.000
11:50:00 AM	0.2	0.010	0.000
11:51:00 AM	0.2	0.014	0.000
11:52:00 AM	0.2	0.012	0.000
11:53:00 AM	0.2	0.010	0.000
11:54:00 AM	0.2	0.008	0.000
11:55:00 AM	0.2	0.010	0.000
11:56:00 AM	0.2	0.011	0.000
11:57:00 AM	0.2	0.010	0.000
11:58:00 AM	0.2	0.011	0.000
11:59:00 AM	0.2	0.010	0.000
12:00:00 PM	0.2	0.011	0.000
12:01:00 PM	0.2	0.011	0.000
12:02:00 PM	0.2	0.009	0.000
12:03:00 PM	0.2	0.010	0.000
12:04:00 PM	0.2	0.011	0.000
12:05:00 PM	0.2	0.010	0.000
12:06:00 PM	0.2	0.010	0.000
12:07:00 PM	0.2	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:08:00 PM	0.2	0.011	0.000
12:09:00 PM	0.2	0.011	0.000
12:10:00 PM	0.2	0.011	0.000
12:11:00 PM	0.2	0.011	0.000
12:12:00 PM	0.2	0.010	0.000
12:13:00 PM	0.2	0.011	0.000
12:14:00 PM	0.2	0.011	0.000
12:15:00 PM	0.2	0.009	0.000
12:16:00 PM	0.2	0.010	0.000
12:17:00 PM	0.2	0.011	0.000
12:18:00 PM	0.2	0.011	0.000
12:19:00 PM	0.2	0.011	0.000
12:20:00 PM	0.2	0.010	0.000
12:21:00 PM	0.2	0.012	0.000
12:22:00 PM	0.2	0.010	0.000
12:23:00 PM	0.2	0.010	0.000
12:24:00 PM	0.2	0.009	0.000
12:25:00 PM	0.2	0.010	0.000
12:26:00 PM	0.2	0.009	0.000
12:27:00 PM	0.2	0.009	0.000
12:28:00 PM	0.2	0.008	0.000
12:29:00 PM	0.1	0.008	0.000
12:30:00 PM	0.2	0.009	0.000
12:31:00 PM	0.1	0.011	0.000
12:32:00 PM	0.2	0.011	0.000
12:33:00 PM	0.2	0.012	0.000
12:34:00 PM	0.2	0.016	0.000
12:35:00 PM	0.1	0.016	0.000
12:36:00 PM	0.1	0.009	0.000
12:37:00 PM	0.1	0.009	0.000
12:38:00 PM	0.1	0.008	0.000
12:39:00 PM	0.1	0.007	0.000
12:40:00 PM	0.1	0.007	0.000
12:41:00 PM	0.1	0.008	0.000
12:42:00 PM	0.2	0.008	0.000
12:43:00 PM	0.2	0.007	0.000
12:44:00 PM	0.2	0.007	0.000
12:45:00 PM	0.2	0.007	0.000
12:46:00 PM	0.2	0.007	0.000
12:47:00 PM	0.2	0.007	0.000
12:48:00 PM	0.2	0.008	0.000
12:49:00 PM	0.1	0.007	0.000
12:50:00 PM	0.2	0.007	0.000
12:51:00 PM	0.2	0.008	0.000
12:52:00 PM	0.2	0.008	0.000
12:53:00 PM	0.2	0.008	0.000
12:54:00 PM	0.2	0.009	0.000
12:55:00 PM	0.2	0.009	0.000
12:56:00 PM	0.2	0.008	0.000
12:57:00 PM	0.2	0.008	0.000
12:58:00 PM	0.1	0.009	0.000
12:59:00 PM	0.2	0.008	0.000
1:00:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:01:00 PM	0.1	0.007	0.000
1:02:00 PM	0.1	0.006	0.000
1:03:00 PM	0.1	0.006	0.000
1:04:00 PM	0.1	0.006	0.000
1:05:00 PM	0.1	0.006	0.000
1:06:00 PM	0.1	0.006	0.000
1:07:00 PM	0.1	0.006	0.000
1:08:00 PM	0.1	0.006	0.000
1:09:00 PM	0.1	0.006	0.000
1:10:00 PM	0.1	0.006	0.000
1:11:00 PM	0.1	0.007	0.000
1:12:00 PM	0.1	0.007	0.000
1:13:00 PM	0.1	0.006	0.000
1:14:00 PM	0.1	0.006	0.000
1:15:00 PM	0.1	0.006	0.000
1:16:00 PM	0.1	0.007	0.000
1:17:00 PM	0.1	0.006	0.000
1:18:00 PM	0.1	0.006	0.000
1:19:00 PM	0.1	0.006	0.000
1:20:00 PM	0.1	0.007	0.000
1:21:00 PM	0.1	0.011	0.000
1:22:00 PM	0.1	0.009	0.000
1:23:00 PM	0.1	0.014	0.000
1:24:00 PM	0.1	0.016	0.000
1:25:00 PM	0.1	0.008	0.000
1:26:00 PM	0.1	0.010	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.024	0.000
1:29:00 PM	0.1	0.012	0.000
1:30:00 PM	0.1	0.011	0.000
1:31:00 PM	0.1	0.018	0.000
1:32:00 PM	0.1	0.022	0.000
1:33:00 PM	0.1	0.011	0.000
1:34:00 PM	0.1	0.014	0.000
1:35:00 PM	0.1	0.008	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.015	0.000
1:38:00 PM	0.1	0.012	0.000
1:39:00 PM	0.1	0.008	0.000
1:40:00 PM	0.1	0.007	0.000
1:41:00 PM	0.1	0.006	0.000
1:42:00 PM	0.1	0.006	0.000
1:43:00 PM	0.1	0.007	0.000
1:44:00 PM	0.1	0.008	0.000
1:45:00 PM	0.1	0.007	0.000
1:46:00 PM	0.1	0.006	0.000
1:47:00 PM	0.1	0.007	0.000
1:48:00 PM	0.1	0.008	0.000
1:49:00 PM	0.1	0.012	0.000
1:50:00 PM	0.1	0.021	0.000
1:51:00 PM	0.1	0.007	0.000
1:52:00 PM	0.1	0.006	0.000
1:53:00 PM	0.1	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:54:00 PM	0.1	0.009	0.000
1:55:00 PM	0.1	0.007	0.000
1:56:00 PM	0.1	0.007	0.000
1:57:00 PM	0.1	0.006	0.000
1:58:00 PM	0.1	0.007	0.000
1:59:00 PM	0.1	0.006	0.000
2:00:00 PM	0.1	0.005	0.000
2:01:00 PM	0.1	0.01	0.000
2:02:00 PM	0.1	0.006	0.000
2:03:00 PM	0.1	0.007	0.000
2:04:00 PM	0.1	0.01	0.000
2:05:00 PM	0.1	0.014	0.000
2:06:00 PM	0.1	0.006	0.000
2:07:00 PM	0.1	0.006	0.000
2:08:00 PM	0.1	0.006	0.000
2:09:00 PM	0.1	0.006	0.000
2:10:00 PM	0.1	0.006	0.000
2:11:00 PM	0.1	0.005	0.000
2:12:00 PM	0.1	0.006	0.000
2:13:00 PM	0.1	0.006	0.000
2:14:00 PM	0.1	0.007	0.000
2:15:00 PM	0.1	0.007	0.000
2:16:00 PM	0.1	0.006	0.000
2:17:00 PM	0.1	0.006	0.000
2:18:00 PM	0.1	0.006	0.000
2:19:00 PM	0.1	0.006	0.000
2:20:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:37:00 AM	0.0	0.042	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.011	0.000
9:40:00 AM	0.0	0.009	0.000
9:41:00 AM	0.0	0.009	0.000
9:42:00 AM	0.0	0.008	0.000
9:43:00 AM	0.0	0.008	0.000
9:44:00 AM	0.0	0.014	0.000
9:45:00 AM	0.0	0.013	0.000
9:46:00 AM	0.0	0.012	0.000
9:47:00 AM	0.0	0.009	0.000
9:48:00 AM	0.0	0.008	0.000
9:49:00 AM	0.0	0.009	0.000
9:50:00 AM	0.0	0.010	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.010	0.000
9:54:00 AM	0.0	0.009	0.000
9:55:00 AM	0.0	0.008	0.000
9:56:00 AM	0.0	0.009	0.000
9:57:00 AM	0.0	0.010	0.000
9:58:00 AM	0.0	0.009	0.000
9:59:00 AM	0.0	0.009	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.009	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.007	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.009	0.000
10:07:00 AM	0.0	0.009	0.000
10:08:00 AM	0.0	0.009	0.000
10:09:00 AM	0.0	0.012	0.000
10:10:00 AM	0.0	0.012	0.000
10:11:00 AM	0.0	0.010	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.012	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.015	0.000
10:18:00 AM	0.0	0.014	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.008	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.009	0.000
10:26:00 AM	0.0	0.010	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:29:00 AM	0.1	0.010	0.000
10:30:00 AM	0.1	0.014	0.000
10:31:00 AM	0.1	0.014	0.000
10:32:00 AM	0.1	0.010	0.000
10:33:00 AM	0.1	0.012	0.000
10:34:00 AM	0.1	0.014	0.000
10:35:00 AM	0.1	0.010	0.000
10:36:00 AM	0.1	0.010	0.000
10:37:00 AM	0.1	0.009	0.000
10:38:00 AM	0.1	0.010	0.000
10:39:00 AM	0.1	0.016	0.000
10:40:00 AM	0.1	0.013	0.000
10:41:00 AM	0.1	0.010	0.000
10:42:00 AM	0.1	0.010	0.000
10:43:00 AM	0.1	0.011	0.000
10:44:00 AM	0.1	0.012	0.000
10:45:00 AM	0.1	0.011	0.000
10:46:00 AM	0.1	0.010	0.000
10:47:00 AM	0.1	0.009	0.000
10:48:00 AM	0.1	0.010	0.000
10:49:00 AM	0.1	0.009	0.000
10:50:00 AM	0.1	0.008	0.000
10:51:00 AM	0.1	0.008	0.000
10:52:00 AM	0.1	0.009	0.000
10:53:00 AM	0.1	0.009	0.000
10:54:00 AM	0.1	0.010	0.000
10:55:00 AM	0.1	0.009	0.000
10:56:00 AM	0.1	0.010	0.000
10:57:00 AM	0.1	0.009	0.000
10:58:00 AM	0.1	0.009	0.000
10:59:00 AM	0.1	0.009	0.000
11:00:00 AM	0.1	0.008	0.000
11:01:00 AM	0.1	0.008	0.000
11:02:00 AM	0.1	0.010	0.000
11:03:00 AM	0.1	0.010	0.000
11:04:00 AM	0.1	0.011	0.000
11:05:00 AM	0.1	0.009	0.000
11:06:00 AM	0.1	0.009	0.000
11:07:00 AM	0.1	0.011	0.000
11:08:00 AM	0.1	0.009	0.000
11:09:00 AM	0.1	0.013	0.000
11:10:00 AM	0.1	0.009	0.000
11:11:00 AM	0.1	0.010	0.000
11:12:00 AM	0.1	0.008	0.000
11:13:00 AM	0.1	0.008	0.000
11:14:00 AM	0.1	0.008	0.000
11:15:00 AM	0.1	0.008	0.000
11:16:00 AM	0.1	0.007	0.000
11:17:00 AM	0.1	0.008	0.000
11:18:00 AM	0.1	0.008	0.000
11:19:00 AM	0.1	0.014	0.000
11:20:00 AM	0.1	0.008	0.000
11:21:00 AM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:22:00 AM	0.1	0.011	0.000
11:23:00 AM	0.1	0.014	0.000
11:24:00 AM	0.1	0.009	0.000
11:25:00 AM	0.1	0.008	0.000
11:26:00 AM	0.1	0.010	0.000
11:27:00 AM	0.1	0.009	0.000
11:28:00 AM	0.1	0.011	0.000
11:29:00 AM	0.1	0.010	0.000
11:30:00 AM	0.1	0.009	0.000
11:31:00 AM	0.1	0.012	0.000
11:32:00 AM	0.1	0.041	0.000
11:33:00 AM	0.1	0.030	0.000
11:34:00 AM	0.1	0.034	0.000
11:35:00 AM	0.1	0.011	0.000
11:36:00 AM	0.1	0.011	0.000
11:37:00 AM	0.1	0.010	0.000
11:38:00 AM	0.1	0.010	0.000
11:39:00 AM	0.1	0.009	0.000
11:40:00 AM	0.1	0.010	0.000
11:41:00 AM	0.1	0.011	0.000
11:42:00 AM	0.1	0.011	0.000
11:43:00 AM	0.1	0.011	0.000
11:44:00 AM	0.1	0.011	0.000
11:45:00 AM	0.1	0.009	0.000
11:46:00 AM	0.1	0.009	0.000
11:47:00 AM	0.1	0.009	0.000
11:48:00 AM	0.1	0.022	0.000
11:49:00 AM	0.1	0.009	0.000
11:50:00 AM	0.1	0.011	0.000
11:51:00 AM	0.1	0.010	0.000
11:52:00 AM	0.1	0.008	0.000
11:53:00 AM	0.1	0.008	0.000
11:54:00 AM	0.1	0.008	0.000
11:55:00 AM	0.1	0.008	0.000
11:56:00 AM	0.1	0.011	0.000
11:57:00 AM	0.1	0.012	0.000
11:58:00 AM	0.1	0.010	0.000
11:59:00 AM	0.1	0.009	0.000
12:00:00 PM	0.1	0.008	0.000
12:01:00 PM	0.1	0.009	0.000
12:02:00 PM	0.1	0.010	0.000
12:03:00 PM	0.1	0.009	0.000
12:04:00 PM	0.1	0.008	0.000
12:05:00 PM	0.1	0.009	0.000
12:06:00 PM	0.1	0.009	0.000
12:07:00 PM	0.1	0.008	0.000
12:08:00 PM	0.1	0.009	0.000
12:09:00 PM	0.1	0.010	0.000
12:10:00 PM	0.1	0.009	0.000
12:11:00 PM	0.1	0.010	0.000
12:12:00 PM	0.1	0.012	0.000
12:13:00 PM	0.1	0.010	0.000
12:14:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:15:00 PM	0.1	0.007	0.000
12:16:00 PM	0.1	0.008	0.000
12:17:00 PM	0.1	0.008	0.000
12:18:00 PM	0.1	0.008	0.000
12:19:00 PM	0.1	0.007	0.000
12:20:00 PM	0.1	0.007	0.000
12:21:00 PM	0.1	0.007	0.000
12:22:00 PM	0.1	0.007	0.000
12:23:00 PM	0.1	0.006	0.000
12:24:00 PM	0.1	0.005	0.000
12:25:00 PM	0.1	0.006	0.000
12:26:00 PM	0.1	0.007	0.000
12:27:00 PM	0.1	0.006	0.000
12:28:00 PM	0.1	0.006	0.000
12:29:00 PM	0.1	0.005	0.000
12:30:00 PM	0.1	0.007	0.000
12:31:00 PM	0.1	0.015	0.000
12:32:00 PM	0.1	0.006	0.000
12:33:00 PM	0.1	0.008	0.000
12:34:00 PM	0.1	0.008	0.000
12:35:00 PM	0.1	0.008	0.000
12:36:00 PM	0.1	0.011	0.000
12:37:00 PM	0.1	0.006	0.000
12:38:00 PM	0.1	0.006	0.000
12:39:00 PM	0.1	0.006	0.000
12:40:00 PM	0.1	0.006	0.000
12:41:00 PM	0.1	0.007	0.000
12:42:00 PM	0.1	0.007	0.000
12:43:00 PM	0.1	0.007	0.000
12:44:00 PM	0.1	0.007	0.000
12:45:00 PM	0.1	0.007	0.000
12:46:00 PM	0.1	0.007	0.000
12:47:00 PM	0.1	0.007	0.000
12:48:00 PM	0.1	0.007	0.000
12:49:00 PM	0.1	0.007	0.000
12:50:00 PM	0.1	0.007	0.000
12:51:00 PM	0.1	0.008	0.000
12:52:00 PM	0.1	0.009	0.000
12:53:00 PM	0.1	0.009	0.000
12:54:00 PM	0.1	0.008	0.000
12:55:00 PM	0.1	0.008	0.000
12:56:00 PM	0.1	0.009	0.000
12:57:00 PM	0.1	0.008	0.000
12:58:00 PM	0.1	0.009	0.000
12:59:00 PM	0.1	0.008	0.000
1:00:00 PM	0.1	0.008	0.000
1:01:00 PM	0.1	0.008	0.000
1:02:00 PM	0.1	0.006	0.000
1:03:00 PM	0.1	0.007	0.000
1:04:00 PM	0.1	0.006	0.000
1:05:00 PM	0.1	0.006	0.000
1:06:00 PM	0.1	0.006	0.000
1:07:00 PM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:08:00 PM	0.1	0.006	0.000
1:09:00 PM	0.1	0.006	0.000
1:10:00 PM	0.1	0.006	0.000
1:11:00 PM	0.1	0.007	0.000
1:12:00 PM	0.1	0.009	0.000
1:13:00 PM	0.1	0.007	0.000
1:14:00 PM	0.1	0.006	0.000
1:15:00 PM	0.1	0.006	0.000
1:16:00 PM	0.1	0.006	0.000
1:17:00 PM	0.1	0.006	0.000
1:18:00 PM	0.1	0.006	0.000
1:19:00 PM	0.1	0.008	0.000
1:20:00 PM	0.1	0.006	0.000
1:21:00 PM	0.1	0.006	0.000
1:22:00 PM	0.1	0.005	0.000
1:23:00 PM	0.1	0.005	0.000
1:24:00 PM	0.1	0.004	0.000
1:25:00 PM	0.1	0.006	0.000
1:26:00 PM	0.1	0.007	0.000
1:27:00 PM	0.1	0.006	0.000
1:28:00 PM	0.1	0.005	0.000
1:29:00 PM	0.1	0.006	0.000
1:30:00 PM	0.1	0.007	0.000
1:31:00 PM	0.1	0.006	0.000
1:32:00 PM	0.1	0.006	0.000
1:33:00 PM	0.1	0.006	0.000
1:34:00 PM	0.1	0.005	0.000
1:35:00 PM	0.1	0.005	0.000
1:36:00 PM	0.1	0.006	0.000
1:37:00 PM	0.1	0.006	0.000
1:38:00 PM	0.1	0.008	0.000
1:39:00 PM	0.1	0.006	0.000
1:40:00 PM	0.1	0.006	0.000
1:41:00 PM	0.1	0.005	0.000
1:42:00 PM	0.1	0.006	0.000
1:43:00 PM	0.1	0.005	0.000
1:44:00 PM	0.1	0.005	0.000
1:45:00 PM	0.1	0.005	0.000
1:46:00 PM	0.1	0.005	0.000
1:47:00 PM	0.1	0.005	0.000
1:48:00 PM	0.1	0.005	0.000
1:49:00 PM	0.1	0.006	0.000
1:50:00 PM	0.1	0.006	0.000
1:51:00 PM	0.1	0.007	0.000
1:52:00 PM	0.1	0.030	0.000
1:53:00 PM	0.1	0.005	0.000
1:54:00 PM	0.1	0.004	0.000
1:55:00 PM	0.1	0.005	0.000
1:56:00 PM	0.1	0.004	0.000
1:57:00 PM	0.1	0.004	0.000
1:58:00 PM	0.1	0.004	0.000
1:59:00 PM	0.1	0.005	0.000
2:00:00 PM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:01:00 PM	0.1	0.004	0.000
2:02:00 PM	0.1	0.005	0.000
2:03:00 PM	0.1	0.004	0.000
2:04:00 PM	0.1	0.005	0.000
2:05:00 PM	0.1	0.005	0.000
2:06:00 PM	0.1	0.005	0.000
2:07:00 PM	0.1	0.004	0.000
2:08:00 PM	0.1	0.004	0.000
2:09:00 PM	0.1	0.007	0.000
2:10:00 PM	0.1	0.005	0.000
2:11:00 PM	0.1	0.004	0.000
2:12:00 PM	0.1	0.005	0.000
2:13:00 PM	0.1	0.005	0.000
2:14:00 PM	0.1	0.005	0.000
2:15:00 PM	0.1	0.006	0.000
2:16:00 PM	0.1	0.006	0.000
2:17:00 PM	0.1	0.005	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 10 mph	Date:	1/8/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues to excavate area #4 within the new sheeting box and on the southeastern corner of area #4. Excavation work done by hand due to concrete conduit within the excavation area. All soils placed within the stockpile area on plastic. Preferred screening soils for VOCs and Mercury vapor, field screening of soils did not return results above background levels of 0.000 mg/m3 and 0.0 PPM. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.3	0.015	0.000	0.5	0.019	0.000
Down Wind	0.1	0.024	0.000	0.1	0.109	0.000
Work Zone	0.1	0.017	0.000	0.2	0.022	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating area #4.



Aarco excavating within area #4.



Aarco placing all excavated soils on stockpile.

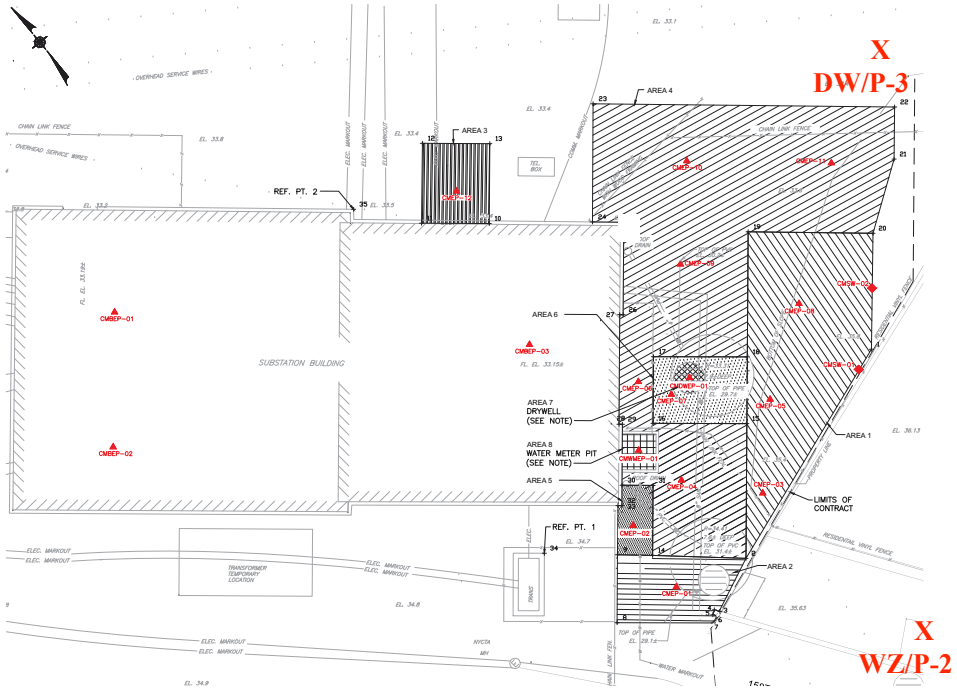


Aarco installing plywood shoring to allow for cables entering excavation.



View of excavation area.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:23:00 AM	0.0	0.0	0.000
9:24:00 AM	0.0	0.013	0.000
9:25:00 AM	0.0	0.013	0.000
9:26:00 AM	0.0	0.013	0.000
9:27:00 AM	0.0	0.012	0.000
9:28:00 AM	0.0	0.013	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.013	0.000
9:31:00 AM	0.1	0.015	0.000
9:32:00 AM	0.0	0.021	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.012	0.000
9:35:00 AM	0.0	0.013	0.000
9:36:00 AM	0.0	0.017	0.000
9:37:00 AM	0.0	0.015	0.000
9:38:00 AM	0.0	0.015	0.000
9:39:00 AM	0.0	0.012	0.000
9:40:00 AM	0.0	0.012	0.000
9:41:00 AM	0.0	0.012	0.000
9:42:00 AM	0.0	0.013	0.000
9:43:00 AM	0.0	0.016	0.000
9:44:00 AM	0.0	0.013	0.000
9:45:00 AM	0.0	0.013	0.000
9:46:00 AM	0.0	0.012	0.000
9:47:00 AM	0.0	0.012	0.000
9:48:00 AM	0.0	0.012	0.000
9:49:00 AM	0.0	0.023	0.000
9:50:00 AM	0.0	0.013	0.000
9:51:00 AM	0.0	0.012	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.012	0.000
9:54:00 AM	0.0	0.013	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.0	0.040	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.1	0.012	0.000
9:59:00 AM	0.1	0.012	0.000
10:00:00 AM	0.1	0.012	0.000
10:01:00 AM	0.1	0.016	0.000
10:02:00 AM	0.1	0.012	0.000
10:03:00 AM	0.1	0.012	0.000
10:04:00 AM	0.1	0.017	0.000
10:05:00 AM	0.1	0.012	0.000
10:06:00 AM	0.1	0.015	0.000
10:07:00 AM	0.1	0.016	0.000
10:08:00 AM	0.1	0.012	0.000
10:09:00 AM	0.1	0.013	0.000
10:10:00 AM	0.1	0.012	0.000
10:11:00 AM	0.1	0.011	0.000
10:12:00 AM	0.1	0.011	0.000
10:13:00 AM	0.2	0.025	0.000
10:14:00 AM	0.1	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:15:00 AM	0.1	0.012	0.000
10:16:00 AM	0.1	0.012	0.000
10:17:00 AM	0.1	0.014	0.000
10:18:00 AM	0.1	0.012	0.000
10:19:00 AM	0.1	0.012	0.000
10:20:00 AM	0.1	0.012	0.000
10:21:00 AM	0.1	0.012	0.000
10:22:00 AM	0.1	0.019	0.000
10:23:00 AM	0.2	0.014	0.000
10:24:00 AM	0.2	0.014	0.000
10:25:00 AM	0.2	0.014	0.000
10:26:00 AM	0.2	0.013	0.000
10:27:00 AM	0.2	0.013	0.000
10:28:00 AM	0.2	0.015	0.000
10:29:00 AM	0.2	0.013	0.000
10:30:00 AM	0.2	0.013	0.000
10:31:00 AM	0.2	0.013	0.000
10:32:00 AM	0.2	0.012	0.000
10:33:00 AM	0.2	0.012	0.000
10:34:00 AM	0.2	0.012	0.000
10:35:00 AM	0.2	0.017	0.000
10:36:00 AM	0.2	0.012	0.000
10:37:00 AM	0.2	0.011	0.000
10:38:00 AM	0.2	0.012	0.000
10:39:00 AM	0.2	0.012	0.000
10:40:00 AM	0.2	0.012	0.000
10:41:00 AM	0.2	0.012	0.000
10:42:00 AM	0.2	0.012	0.000
10:43:00 AM	0.2	0.016	0.000
10:44:00 AM	0.2	0.011	0.000
10:45:00 AM	0.2	0.011	0.000
10:46:00 AM	0.2	0.012	0.000
10:47:00 AM	0.2	0.011	0.000
10:48:00 AM	0.2	0.011	0.000
10:49:00 AM	0.2	0.012	0.000
10:50:00 AM	0.3	0.012	0.000
10:51:00 AM	0.2	0.012	0.000
10:52:00 AM	0.2	0.011	0.000
10:53:00 AM	0.2	0.011	0.000
10:54:00 AM	0.3	0.012	0.000
10:55:00 AM	0.3	0.011	0.000
10:56:00 AM	0.3	0.012	0.000
10:57:00 AM	0.3	0.012	0.000
10:58:00 AM	0.3	0.012	0.000
10:59:00 AM	0.3	0.012	0.000
11:00:00 AM	0.3	0.012	0.000
11:01:00 AM	0.3	0.012	0.000
11:02:00 AM	0.3	0.012	0.000
11:03:00 AM	0.3	0.012	0.000
11:04:00 AM	0.3	0.014	0.000
11:05:00 AM	0.3	0.014	0.000
11:06:00 AM	0.3	0.013	0.000
11:07:00 AM	0.3	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:08:00 AM	0.3	0.013	0.000
11:09:00 AM	0.3	0.013	0.000
11:10:00 AM	0.3	0.013	0.000
11:11:00 AM	0.3	0.013	0.000
11:12:00 AM	0.3	0.013	0.000
11:13:00 AM	0.3	0.014	0.000
11:14:00 AM	0.3	0.013	0.000
11:15:00 AM	0.3	0.012	0.000
11:16:00 AM	0.3	0.012	0.000
11:17:00 AM	0.3	0.012	0.000
11:18:00 AM	0.3	0.017	0.000
11:19:00 AM	0.3	0.013	0.000
11:20:00 AM	0.3	0.012	0.000
11:21:00 AM	0.3	0.012	0.000
11:22:00 AM	0.3	0.013	0.000
11:23:00 AM	0.3	0.013	0.000
11:24:00 AM	0.4	0.013	0.000
11:25:00 AM	0.3	0.013	0.000
11:26:00 AM	0.3	0.014	0.000
11:27:00 AM	0.3	0.013	0.000
11:28:00 AM	0.3	0.013	0.000
11:29:00 AM	0.4	0.013	0.000
11:30:00 AM	0.3	0.013	0.000
11:31:00 AM	0.3	0.050	0.000
11:32:00 AM	0.3	0.028	0.000
11:33:00 AM	0.3	0.013	0.000
11:34:00 AM	0.3	0.012	0.000
11:35:00 AM	0.3	0.012	0.000
11:36:00 AM	0.3	0.012	0.000
11:37:00 AM	0.4	0.012	0.000
11:38:00 AM	0.4	0.013	0.000
11:39:00 AM	0.4	0.013	0.000
11:40:00 AM	0.4	0.012	0.000
11:41:00 AM	0.4	0.013	0.000
11:42:00 AM	0.4	0.032	0.000
11:43:00 AM	0.3	0.031	0.000
11:44:00 AM	0.3	0.013	0.000
11:45:00 AM	0.4	0.013	0.000
11:46:00 AM	0.4	0.013	0.000
11:47:00 AM	0.4	0.013	0.000
11:48:00 AM	0.4	0.014	0.000
11:49:00 AM	0.4	0.014	0.000
11:50:00 AM	0.4	0.014	0.000
11:51:00 AM	0.4	0.015	0.000
11:52:00 AM	0.4	0.014	0.000
11:53:00 AM	0.4	0.014	0.000
11:54:00 AM	0.4	0.014	0.000
11:55:00 AM	0.4	0.014	0.000
11:56:00 AM	0.4	0.013	0.000
11:57:00 AM	0.4	0.013	0.000
11:58:00 AM	0.4	0.014	0.000
11:59:00 AM	0.4	0.014	0.000
12:00:00 PM	0.4	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:01:00 PM	0.4	0.014	0.000
12:02:00 PM	0.4	0.013	0.000
12:03:00 PM	0.4	0.014	0.000
12:04:00 PM	0.4	0.014	0.000
12:05:00 PM	0.4	0.014	0.000
12:06:00 PM	0.4	0.013	0.000
12:07:00 PM	0.4	0.014	0.000
12:08:00 PM	0.4	0.013	0.000
12:09:00 PM	0.4	0.013	0.000
12:10:00 PM	0.4	0.014	0.000
12:11:00 PM	0.4	0.014	0.000
12:12:00 PM	0.4	0.013	0.000
12:13:00 PM	0.4	0.014	0.000
12:14:00 PM	0.4	0.013	0.000
12:15:00 PM	0.4	0.013	0.000
12:16:00 PM	0.4	0.013	0.000
12:17:00 PM	0.4	0.014	0.000
12:18:00 PM	0.4	0.014	0.000
12:19:00 PM	0.4	0.014	0.000
12:20:00 PM	0.4	0.014	0.000
12:21:00 PM	0.5	0.014	0.000
12:22:00 PM	0.4	0.015	0.000
12:23:00 PM	0.4	0.015	0.000
12:24:00 PM	0.4	0.015	0.000
12:25:00 PM	0.4	0.016	0.000
12:26:00 PM	0.4	0.016	0.000
12:27:00 PM	0.4	0.017	0.000
12:28:00 PM	0.4	0.017	0.000
12:29:00 PM	0.4	0.016	0.000
12:30:00 PM	0.4	0.015	0.000
12:31:00 PM	0.4	0.015	0.000
12:32:00 PM	0.4	0.015	0.000
12:33:00 PM	0.4	0.015	0.000
12:34:00 PM	0.4	0.015	0.000
12:35:00 PM	0.5	0.015	0.000
12:36:00 PM	0.5	0.016	0.000
12:37:00 PM	0.5	0.016	0.000
12:38:00 PM	0.4	0.016	0.000
12:39:00 PM	0.4	0.017	0.000
12:40:00 PM	0.5	0.017	0.000
12:41:00 PM	0.5	0.017	0.000
12:42:00 PM	0.5	0.017	0.000
12:43:00 PM	0.5	0.017	0.000
12:44:00 PM	0.5	0.017	0.000
12:45:00 PM	0.5	0.016	0.000
12:46:00 PM	0.5	0.017	0.000
12:47:00 PM	0.5	0.017	0.000
12:48:00 PM	0.5	0.017	0.000
12:49:00 PM	0.5	0.016	0.000
12:50:00 PM	0.5	0.016	0.000
12:51:00 PM	0.5	0.016	0.000
12:52:00 PM	0.5	0.015	0.000
12:53:00 PM	0.4	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:54:00 PM	0.4	0.016	0.000
12:55:00 PM	0.4	0.015	0.000
12:56:00 PM	0.4	0.015	0.000
12:57:00 PM	0.5	0.015	0.000
12:58:00 PM	0.5	0.015	0.000
12:59:00 PM	0.5	0.015	0.000
1:00:00 PM	0.5	0.015	0.000
1:01:00 PM	0.5	0.016	0.000
1:02:00 PM	0.5	0.016	0.000
1:03:00 PM	0.5	0.016	0.000
1:04:00 PM	0.5	0.016	0.000
1:05:00 PM	0.5	0.016	0.000
1:06:00 PM	0.5	0.017	0.000
1:07:00 PM	0.5	0.017	0.000
1:08:00 PM	0.5	0.017	0.000
1:09:00 PM	0.5	0.017	0.000
1:10:00 PM	0.5	0.017	0.000
1:11:00 PM	0.5	0.017	0.000
1:12:00 PM	0.5	0.018	0.000
1:13:00 PM	0.5	0.019	0.000
1:14:00 PM	0.5	0.017	0.000
1:15:00 PM	0.5	0.021	0.000
1:16:00 PM	0.5	0.020	0.000
1:17:00 PM	0.6	0.018	0.000
1:18:00 PM	0.5	0.018	0.000
1:19:00 PM	0.5	0.015	0.000
1:20:00 PM	0.5	0.015	0.000
1:21:00 PM	0.5	0.018	0.000
1:22:00 PM	0.5	0.017	0.000
1:23:00 PM	0.5	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:34:00 AM	0.1	0.019	0.000
9:35:00 AM	0.1	0.017	0.000
9:36:00 AM	0.1	0.017	0.000
9:37:00 AM	0.1	0.017	0.000
9:38:00 AM	0.1	0.023	0.000
9:39:00 AM	0.1	0.018	0.000
9:40:00 AM	0.1	0.016	0.000
9:41:00 AM	0.1	0.015	0.000
9:42:00 AM	0.1	0.017	0.000
9:43:00 AM	0.1	0.022	0.000
9:44:00 AM	0.1	0.018	0.000
9:45:00 AM	0.1	0.016	0.000
9:46:00 AM	0.1	0.017	0.000
9:47:00 AM	0.1	0.020	0.000
9:48:00 AM	0.1	0.021	0.000
9:49:00 AM	0.1	0.032	0.000
9:50:00 AM	0.1	0.020	0.000
9:51:00 AM	0.1	0.018	0.000
9:52:00 AM	0.1	0.017	0.000
9:53:00 AM	0.1	0.016	0.000
9:54:00 AM	0.1	0.016	0.000
9:55:00 AM	0.1	0.020	0.000
9:56:00 AM	0.1	0.017	0.000
9:57:00 AM	0.1	0.019	0.000
9:58:00 AM	0.1	0.020	0.000
9:59:00 AM	0.1	0.023	0.000
10:00:00 AM	0.2	0.020	0.000
10:01:00 AM	0.1	0.024	0.000
10:02:00 AM	0.1	0.015	0.000
10:03:00 AM	0.1	0.018	0.000
10:04:00 AM	0.1	0.024	0.000
10:05:00 AM	0.1	0.019	0.000
10:06:00 AM	0.1	0.019	0.000
10:07:00 AM	0.1	0.021	0.000
10:08:00 AM	0.1	0.017	0.000
10:09:00 AM	0.1	0.017	0.000
10:10:00 AM	0.1	0.015	0.000
10:11:00 AM	0.1	0.015	0.000
10:12:00 AM	0.1	0.018	0.000
10:13:00 AM	0.1	0.017	0.000
10:14:00 AM	0.1	0.020	0.000
10:15:00 AM	0.1	0.018	0.000
10:16:00 AM	0.1	0.018	0.000
10:17:00 AM	0.1	0.023	0.000
10:18:00 AM	0.1	0.014	0.000
10:19:00 AM	0.1	0.013	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.015	0.000
10:22:00 AM	0.1	0.021	0.000
10:23:00 AM	0.1	0.021	0.000
10:24:00 AM	0.1	0.019	0.000
10:25:00 AM	0.1	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:26:00 AM	0.1	0.016	0.000
10:27:00 AM	0.1	0.017	0.000
10:28:00 AM	0.1	0.015	0.000
10:29:00 AM	0.1	0.019	0.000
10:30:00 AM	0.1	0.018	0.000
10:31:00 AM	0.1	0.015	0.000
10:32:00 AM	0.1	0.014	0.000
10:33:00 AM	0.1	0.015	0.000
10:34:00 AM	0.2	0.023	0.000
10:35:00 AM	0.1	0.020	0.000
10:36:00 AM	0.1	0.014	0.000
10:37:00 AM	0.1	0.013	0.000
10:38:00 AM	0.2	0.014	0.000
10:39:00 AM	0.2	0.014	0.000
10:40:00 AM	0.2	0.013	0.000
10:41:00 AM	0.2	0.016	0.000
10:42:00 AM	0.2	0.017	0.000
10:43:00 AM	0.2	0.023	0.000
10:44:00 AM	0.1	0.015	0.000
10:45:00 AM	0.2	0.015	0.000
10:46:00 AM	0.2	0.013	0.000
10:47:00 AM	0.1	0.013	0.000
10:48:00 AM	0.1	0.013	0.000
10:49:00 AM	0.2	0.016	0.000
10:50:00 AM	0.2	0.014	0.000
10:51:00 AM	0.2	0.013	0.000
10:52:00 AM	0.2	0.014	0.000
10:53:00 AM	0.2	0.017	0.000
10:54:00 AM	0.2	0.016	0.000
10:55:00 AM	0.2	0.013	0.000
10:56:00 AM	0.2	0.012	0.000
10:57:00 AM	0.2	0.014	0.000
10:58:00 AM	0.2	0.013	0.000
10:59:00 AM	0.2	0.014	0.000
11:00:00 AM	0.2	0.018	0.000
11:01:00 AM	0.2	0.014	0.000
11:02:00 AM	0.2	0.015	0.000
11:03:00 AM	0.2	0.015	0.000
11:04:00 AM	0.2	0.014	0.000
11:05:00 AM	0.2	0.015	0.000
11:06:00 AM	0.2	0.015	0.000
11:07:00 AM	0.2	0.016	0.000
11:08:00 AM	0.2	0.015	0.000
11:09:00 AM	0.2	0.014	0.000
11:10:00 AM	0.2	0.014	0.000
11:11:00 AM	0.2	0.016	0.000
11:12:00 AM	0.2	0.015	0.000
11:13:00 AM	0.2	0.013	0.000
11:14:00 AM	0.2	0.013	0.000
11:15:00 AM	0.2	0.012	0.000
11:16:00 AM	0.2	0.016	0.000
11:17:00 AM	0.2	0.015	0.000
11:18:00 AM	0.2	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:19:00 AM	0.2	0.018	0.000
11:20:00 AM	0.2	0.018	0.000
11:21:00 AM	0.2	0.014	0.000
11:22:00 AM	0.2	0.013	0.000
11:23:00 AM	0.2	0.013	0.000
11:24:00 AM	0.2	0.014	0.000
11:25:00 AM	0.2	0.013	0.000
11:26:00 AM	0.2	0.014	0.000
11:27:00 AM	0.2	0.013	0.000
11:28:00 AM	0.2	0.013	0.000
11:29:00 AM	0.2	0.013	0.000
11:30:00 AM	0.2	0.013	0.000
11:31:00 AM	0.2	0.013	0.000
11:32:00 AM	0.2	0.016	0.000
11:33:00 AM	0.2	0.012	0.000
11:34:00 AM	0.2	0.014	0.000
11:35:00 AM	0.2	0.012	0.000
11:36:00 AM	0.2	0.012	0.000
11:37:00 AM	0.2	0.013	0.000
11:38:00 AM	0.2	0.017	0.000
11:39:00 AM	0.2	0.017	0.000
11:40:00 AM	0.2	0.018	0.000
11:41:00 AM	0.2	0.019	0.000
11:42:00 AM	0.2	0.021	0.000
11:43:00 AM	0.2	0.029	0.000
11:44:00 AM	0.2	0.014	0.000
11:45:00 AM	0.2	0.014	0.000
11:46:00 AM	0.2	0.014	0.000
11:47:00 AM	0.2	0.014	0.000
11:48:00 AM	0.2	0.016	0.000
11:49:00 AM	0.2	0.017	0.000
11:50:00 AM	0.2	0.019	0.000
11:51:00 AM	0.2	0.026	0.000
11:52:00 AM	0.2	0.016	0.000
11:53:00 AM	0.2	0.014	0.000
11:54:00 AM	0.2	0.014	0.000
11:55:00 AM	0.2	0.014	0.000
11:56:00 AM	0.2	0.013	0.000
11:57:00 AM	0.2	0.020	0.000
11:58:00 AM	0.2	0.020	0.000
11:59:00 AM	0.2	0.021	0.000
12:00:00 PM	0.2	0.024	0.000
12:01:00 PM	0.2	0.015	0.000
12:02:00 PM	0.2	0.014	0.000
12:03:00 PM	0.2	0.014	0.000
12:04:00 PM	0.2	0.014	0.000
12:05:00 PM	0.2	0.014	0.000
12:06:00 PM	0.2	0.014	0.000
12:07:00 PM	0.2	0.014	0.000
12:08:00 PM	0.2	0.013	0.000
12:09:00 PM	0.2	0.013	0.000
12:10:00 PM	0.1	0.014	0.000
12:11:00 PM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:12:00 PM	0.2	0.015	0.000
12:13:00 PM	0.2	0.016	0.000
12:14:00 PM	0.2	0.016	0.000
12:15:00 PM	0.2	0.014	0.000
12:16:00 PM	0.2	0.014	0.000
12:17:00 PM	0.2	0.014	0.000
12:18:00 PM	0.2	0.014	0.000
12:19:00 PM	0.1	0.014	0.000
12:20:00 PM	0.1	0.015	0.000
12:21:00 PM	0.2	0.014	0.000
12:22:00 PM	0.2	0.014	0.000
12:23:00 PM	0.2	0.015	0.000
12:24:00 PM	0.2	0.016	0.000
12:25:00 PM	0.2	0.016	0.000
12:26:00 PM	0.2	0.016	0.000
12:27:00 PM	0.2	0.016	0.000
12:28:00 PM	0.2	0.016	0.000
12:29:00 PM	0.2	0.015	0.000
12:30:00 PM	0.2	0.015	0.000
12:31:00 PM	0.2	0.015	0.000
12:32:00 PM	0.2	0.015	0.000
12:33:00 PM	0.2	0.015	0.000
12:34:00 PM	0.2	0.015	0.000
12:35:00 PM	0.2	0.015	0.000
12:36:00 PM	0.2	0.016	0.000
12:37:00 PM	0.2	0.016	0.000
12:38:00 PM	0.2	0.016	0.000
12:39:00 PM	0.2	0.017	0.000
12:40:00 PM	0.2	0.017	0.000
12:41:00 PM	0.2	0.017	0.000
12:42:00 PM	0.2	0.017	0.000
12:43:00 PM	0.2	0.017	0.000
12:44:00 PM	0.2	0.017	0.000
12:45:00 PM	0.2	0.017	0.000
12:46:00 PM	0.2	0.017	0.000
12:47:00 PM	0.2	0.016	0.000
12:48:00 PM	0.2	0.017	0.000
12:49:00 PM	0.2	0.016	0.000
12:50:00 PM	0.2	0.016	0.000
12:51:00 PM	0.2	0.016	0.000
12:52:00 PM	0.2	0.015	0.000
12:53:00 PM	0.2	0.015	0.000
12:54:00 PM	0.2	0.015	0.000
12:55:00 PM	0.1	0.015	0.000
12:56:00 PM	0.1	0.015	0.000
12:57:00 PM	0.1	0.015	0.000
12:58:00 PM	0.2	0.015	0.000
12:59:00 PM	0.2	0.015	0.000
1:00:00 PM	0.2	0.015	0.000
1:01:00 PM	0.2	0.015	0.000
1:02:00 PM	0.2	0.017	0.000
1:03:00 PM	0.2	0.017	0.000
1:04:00 PM	0.2	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:05:00 PM	0.2	0.017	0.000
1:06:00 PM	0.1	0.019	0.000
1:07:00 PM	0.2	0.018	0.000
1:08:00 PM	0.1	0.018	0.000
1:09:00 PM	0.1	0.021	0.000
1:10:00 PM	0.2	0.022	0.000
1:11:00 PM	0.1	0.023	0.000
1:12:00 PM	0.2	0.024	0.000
1:13:00 PM	0.1	0.028	0.000
1:14:00 PM	0.2	0.020	0.000
1:15:00 PM	0.2	0.025	0.000
1:16:00 PM	0.2	0.023	0.000
1:17:00 PM	0.2	0.020	0.000
1:18:00 PM	0.2	0.019	0.000
1:19:00 PM	0.2	0.017	0.000
1:20:00 PM	0.2	0.016	0.000
1:21:00 PM	0.1	0.025	0.000
1:22:00 PM	0.2	0.021	0.000
1:23:00 PM	0.2	0.024	0.000
1:24:00 PM	0.1	0.020	0.000
1:25:00 PM		0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:29:00 AM		0.022	0.000
9:31:00 AM	0.0	0.018	0.000
9:32:00 AM	0.0	0.018	0.000
9:33:00 AM	0.0	0.018	0.000
9:34:00 AM	0.0	0.017	0.000
9:35:00 AM	0.0	0.017	0.000
9:36:00 AM	0.0	0.021	0.000
9:37:00 AM	0.0	0.018	0.000
9:38:00 AM	0.0	0.032	0.000
9:39:00 AM	0.0	0.016	0.000
9:40:00 AM	0.0	0.016	0.000
9:41:00 AM	0.0	0.017	0.000
9:42:00 AM	0.0	0.018	0.000
9:43:00 AM	0.0	0.019	0.000
9:44:00 AM	0.0	0.018	0.000
9:45:00 AM	0.0	0.017	0.000
9:46:00 AM	0.0	0.015	0.000
9:47:00 AM	0.0	0.016	0.000
9:48:00 AM	0.0	0.016	0.000
9:49:00 AM	0.0	0.016	0.000
9:50:00 AM	0.0	0.016	0.000
9:51:00 AM	0.0	0.016	0.000
9:52:00 AM	0.0	0.024	0.000
9:53:00 AM	0.0	0.015	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.016	0.000
9:56:00 AM	0.0	0.017	0.000
9:57:00 AM	0.0	0.016	0.000
9:58:00 AM	0.0	0.016	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.017	0.000
10:01:00 AM	0.0	0.016	0.000
10:02:00 AM	0.0	0.016	0.000
10:03:00 AM	0.0	0.017	0.000
10:04:00 AM	0.0	0.015	0.000
10:05:00 AM	0.0	0.017	0.000
10:06:00 AM	0.0	0.016	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.016	0.000
10:09:00 AM	0.0	0.019	0.000
10:10:00 AM	0.0	0.015	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.015	0.000
10:14:00 AM	0.0	0.016	0.000
10:15:00 AM	0.0	0.016	0.000
10:16:00 AM	0.0	0.016	0.000
10:17:00 AM	0.0	0.015	0.000
10:18:00 AM	0.0	0.015	0.000
10:19:00 AM	0.1	0.015	0.000
10:20:00 AM	0.1	0.015	0.000
10:21:00 AM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:22:00 AM	0.1	0.016	0.000
10:23:00 AM	0.1	0.031	0.000
10:24:00 AM	0.1	0.025	0.000
10:25:00 AM	0.1	0.015	0.000
10:26:00 AM	0.1	0.016	0.000
10:27:00 AM	0.1	0.016	0.000
10:28:00 AM	0.1	0.018	0.000
10:29:00 AM	0.1	0.016	0.000
10:30:00 AM	0.1	0.018	0.000
10:31:00 AM	0.1	0.015	0.000
10:32:00 AM	0.1	0.016	0.000
10:33:00 AM	0.1	0.016	0.000
10:34:00 AM	0.1	0.015	0.000
10:35:00 AM	0.1	0.017	0.000
10:36:00 AM	0.1	0.015	0.000
10:37:00 AM	0.1	0.015	0.000
10:38:00 AM	0.1	0.016	0.000
10:39:00 AM	0.1	0.016	0.000
10:40:00 AM	0.1	0.016	0.000
10:41:00 AM	0.1	0.016	0.000
10:42:00 AM	0.1	0.016	0.000
10:43:00 AM	0.1	0.016	0.000
10:44:00 AM	0.1	0.016	0.000
10:45:00 AM	0.1	0.014	0.000
10:46:00 AM	0.1	0.015	0.000
10:47:00 AM	0.1	0.015	0.000
10:48:00 AM	0.1	0.014	0.000
10:49:00 AM	0.1	0.014	0.000
10:50:00 AM	0.1	0.015	0.000
10:51:00 AM	0.1	0.015	0.000
10:52:00 AM	0.1	0.015	0.000
10:53:00 AM	0.1	0.015	0.000
10:54:00 AM	0.1	0.016	0.000
10:55:00 AM	0.1	0.014	0.000
10:56:00 AM	0.1	0.014	0.000
10:57:00 AM	0.1	0.015	0.000
10:58:00 AM	0.1	0.015	0.000
10:59:00 AM	0.1	0.015	0.000
11:00:00 AM	0.1	0.015	0.000
11:01:00 AM	0.1	0.015	0.000
11:02:00 AM	0.1	0.016	0.000
11:03:00 AM	0.1	0.015	0.000
11:04:00 AM	0.1	0.017	0.000
11:05:00 AM	0.1	0.017	0.000
11:06:00 AM	0.1	0.019	0.000
11:07:00 AM	0.1	0.015	0.000
11:08:00 AM	0.1	0.017	0.000
11:09:00 AM	0.1	0.017	0.000
11:10:00 AM	0.1	0.016	0.000
11:11:00 AM	0.1	0.015	0.000
11:12:00 AM	0.1	0.020	0.000
11:13:00 AM	0.2	0.040	0.000
11:14:00 AM	0.1	0.153	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:15:00 AM	0.1	0.018	0.000
11:16:00 AM	0.1	0.014	0.000
11:17:00 AM	0.1	0.028	0.000
11:18:00 AM	0.1	0.016	0.000
11:19:00 AM	0.1	0.019	0.000
11:20:00 AM	0.1	0.015	0.000
11:21:00 AM	0.1	0.015	0.000
11:22:00 AM	0.1	0.202	0.000
11:23:00 AM	0.1	0.045	0.000
11:24:00 AM	0.1	0.018	0.000
11:25:00 AM	0.1	0.017	0.000
11:26:00 AM	0.1	0.018	0.000
11:27:00 AM	0.1	0.017	0.000
11:28:00 AM	0.1	0.017	0.000
11:29:00 AM	0.1	0.287	0.000
11:30:00 AM	0.3	0.098	0.000
11:31:00 AM	0.1	0.324	0.000
11:32:00 AM	0.4	0.036	0.000
11:33:00 AM	0.1	0.237	0.000
11:34:00 AM	0.2	0.018	0.000
11:35:00 AM	0.1	0.289	0.000
11:36:00 AM	0.1	0.017	0.000
11:37:00 AM	0.1	0.018	0.000
11:38:00 AM	0.1	0.016	0.000
11:39:00 AM	0.1	0.016	0.000
11:40:00 AM	0.1	0.017	0.000
11:41:00 AM	0.1	0.015	0.000
11:42:00 AM	0.1	0.015	0.000
11:43:00 AM	0.1	0.016	0.000
11:44:00 AM	0.1	0.016	0.000
11:45:00 AM	0.1	0.017	0.000
11:46:00 AM	0.1	0.017	0.000
11:47:00 AM	0.1	0.017	0.000
11:48:00 AM	0.1	0.017	0.000
11:49:00 AM	0.1	0.018	0.000
11:50:00 AM	0.1	0.017	0.000
11:51:00 AM	0.1	0.018	0.000
11:52:00 AM	0.1	0.017	0.000
11:53:00 AM	0.1	0.018	0.000
11:54:00 AM	0.1	0.017	0.000
11:55:00 AM	0.1	0.018	0.000
11:56:00 AM	0.1	0.016	0.000
11:57:00 AM	0.1	0.017	0.000
11:58:00 AM	0.1	0.018	0.000
11:59:00 AM	0.1	0.017	0.000
12:00:00 PM	0.1	0.016	0.000
12:01:00 PM	0.1	0.015	0.000
12:02:00 PM	0.1	0.015	0.000
12:03:00 PM	0.1	0.015	0.000
12:04:00 PM	0.1	0.017	0.000
12:05:00 PM	0.1	0.016	0.000
12:06:00 PM	0.1	0.015	0.000
12:07:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:08:00 PM	0.1	0.015	0.000
12:09:00 PM	0.1	0.016	0.000
12:10:00 PM	0.1	0.016	0.000
12:11:00 PM	0.1	0.016	0.000
12:12:00 PM	0.1	0.016	0.000
12:13:00 PM	0.1	0.016	0.000
12:14:00 PM	0.1	0.017	0.000
12:15:00 PM	0.1	0.016	0.000
12:16:00 PM	0.1	0.016	0.000
12:17:00 PM	0.1	0.016	0.000
12:18:00 PM	0.1	0.016	0.000
12:19:00 PM	0.1	0.017	0.000
12:20:00 PM	0.1	0.017	0.000
12:21:00 PM	0.1	0.017	0.000
12:22:00 PM	0.1	0.017	0.000
12:23:00 PM	0.1	0.018	0.000
12:24:00 PM	0.1	0.019	0.000
12:25:00 PM	0.1	0.020	0.000
12:26:00 PM	0.1	0.021	0.000
12:27:00 PM	0.1	0.021	0.000
12:28:00 PM	0.1	0.019	0.000
12:29:00 PM	0.1	0.019	0.000
12:30:00 PM	0.1	0.020	0.000
12:31:00 PM	0.1	0.019	0.000
12:32:00 PM	0.1	0.018	0.000
12:33:00 PM	0.1	0.018	0.000
12:34:00 PM	0.1	0.019	0.000
12:35:00 PM	0.1	0.019	0.000
12:36:00 PM	0.1	0.020	0.000
12:37:00 PM	0.1	0.020	0.000
12:38:00 PM	0.1	0.020	0.000
12:39:00 PM	0.1	0.021	0.000
12:40:00 PM	0.1	0.021	0.000
12:41:00 PM	0.1	0.020	0.000
12:42:00 PM	0.1	0.021	0.000
12:43:00 PM	0.1	0.021	0.000
12:44:00 PM	0.1	0.020	0.000
12:45:00 PM	0.1	0.020	0.000
12:46:00 PM	0.1	0.020	0.000
12:47:00 PM	0.1	0.020	0.000
12:48:00 PM	0.1	0.020	0.000
12:49:00 PM	0.1	0.019	0.000
12:50:00 PM	0.1	0.019	0.000
12:51:00 PM	0.1	0.018	0.000
12:52:00 PM	0.1	0.017	0.000
12:53:00 PM	0.1	0.017	0.000
12:54:00 PM	0.1	0.017	0.000
12:55:00 PM	0.1	0.017	0.000
12:56:00 PM	0.1	0.017	0.000
12:57:00 PM	0.1	0.017	0.000
12:58:00 PM	0.1	0.017	0.000
12:59:00 PM	0.1	0.017	0.000
1:00:00 PM	0.1	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:01:00 PM	0.1	0.018	0.000
1:02:00 PM	0.1	0.018	0.000
1:03:00 PM	0.1	0.018	0.000
1:04:00 PM	0.1	0.028	0.000
1:05:00 PM	0.1	0.020	0.000
1:06:00 PM	0.1	0.021	0.000
1:07:00 PM	0.1	0.021	0.000
1:08:00 PM	0.1	0.021	0.000
1:09:00 PM	0.1	0.020	0.000
1:10:00 PM	0.1	0.022	0.000
1:11:00 PM	0.1	0.020	0.000
1:12:00 PM	0.1	0.020	0.000
1:13:00 PM	0.1	0.021	0.000
1:14:00 PM	0.1	0.021	0.000
1:15:00 PM	0.1	0.021	0.000
1:16:00 PM	0.1	0.022	0.000
1:17:00 PM	0.2	0.019	0.000
1:18:00 PM	0.1	0.020	0.000
1:19:00 PM	0.1	0.016	0.000
1:20:00 PM	0.1	0.018	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 8 mph	Date:	1/11/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco backfilling the excavation areas within area #4 with sand in ten (10) inch lifts. All lifts are compacted with a gas-powered compactor. Sky testing Inc onsite to conduct compaction testing, ensuring that each lift is compacted to greater than 95%. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.3	0.038	0.000	0.6	0.046	0.000
Down Wind	0.1	0.049	0.000	0.1	0.056	0.000
Work Zone	0.2	0.039	0.000	0.2	0.047	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue backfilling area #4.



Aarco backfilling area #4.



Endpoint sample location preserved for survey.

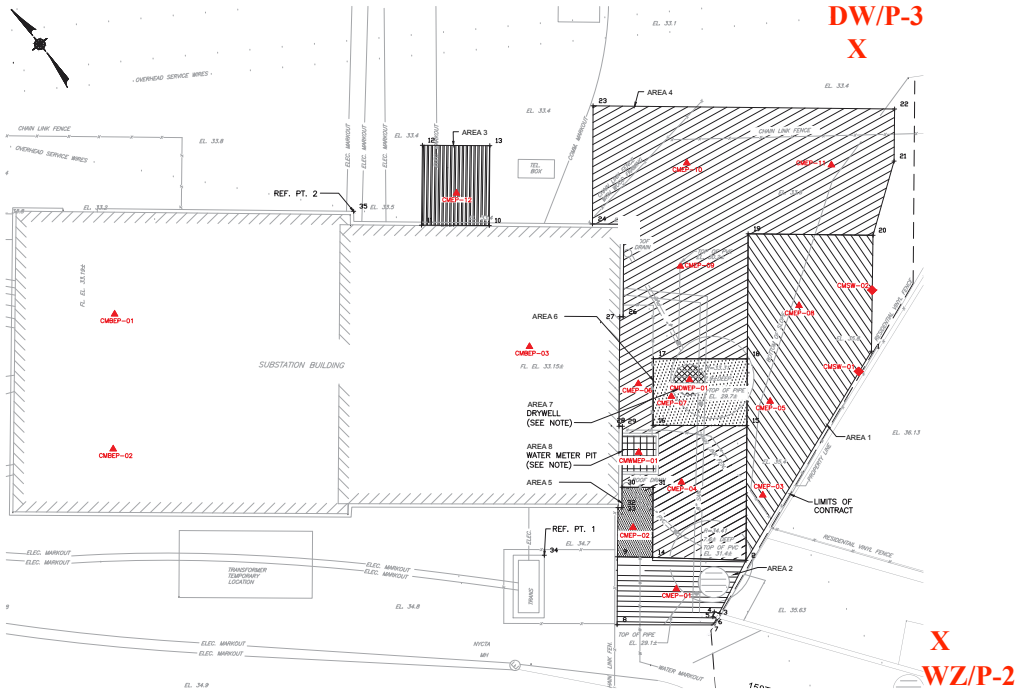


Aarco compacting all backfill in ten (10) inch lifts.



Sky Testing preforming compaction testing on all lifts.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:32:00 AM	0.0	0.1	0.000
9:33:00 AM	0.0	0.032	0.000
9:34:00 AM	0.0	0.028	0.000
9:35:00 AM	0.0	0.028	0.000
9:36:00 AM	0.0	0.029	0.000
9:37:00 AM	0.0	0.028	0.000
9:38:00 AM	0.0	0.029	0.000
9:39:00 AM	0.0	0.029	0.000
9:40:00 AM	0.0	0.030	0.000
9:41:00 AM	0.0	0.029	0.000
9:42:00 AM	0.0	0.030	0.000
9:43:00 AM	0.0	0.030	0.000
9:44:00 AM	0.0	0.033	0.000
9:45:00 AM	0.0	0.033	0.000
9:46:00 AM	0.0	0.032	0.000
9:47:00 AM	0.0	0.037	0.000
9:48:00 AM	0.0	0.032	0.000
9:49:00 AM	0.0	0.031	0.000
9:50:00 AM	0.0	0.032	0.000
9:51:00 AM	0.0	0.031	0.000
9:52:00 AM	0.0	0.032	0.000
9:53:00 AM	0.0	0.032	0.000
9:54:00 AM	0.0	0.033	0.000
9:55:00 AM	0.0	0.036	0.000
9:56:00 AM	0.1	0.037	0.000
9:57:00 AM	0.0	0.036	0.000
9:58:00 AM	0.0	0.040	0.000
9:59:00 AM	0.0	0.037	0.000
10:00:00 AM	0.0	0.038	0.000
10:01:00 AM	0.0	0.035	0.000
10:02:00 AM	0.0	0.034	0.000
10:03:00 AM	0.0	0.033	0.000
10:04:00 AM	0.0	0.033	0.000
10:05:00 AM	0.0	0.034	0.000
10:06:00 AM	0.1	0.033	0.000
10:07:00 AM	0.1	0.033	0.000
10:08:00 AM	0.1	0.034	0.000
10:09:00 AM	0.1	0.033	0.000
10:10:00 AM	0.1	0.033	0.000
10:11:00 AM	0.1	0.034	0.000
10:12:00 AM	0.1	0.034	0.000
10:13:00 AM	0.1	0.034	0.000
10:14:00 AM	0.1	0.034	0.000
10:15:00 AM	0.1	0.035	0.000
10:16:00 AM	0.1	0.035	0.000
10:17:00 AM	0.1	0.036	0.000
10:18:00 AM	0.1	0.035	0.000
10:19:00 AM	0.1	0.036	0.000
10:20:00 AM	0.1	0.035	0.000
10:21:00 AM	0.1	0.035	0.000
10:22:00 AM	0.1	0.035	0.000
10:23:00 AM	0.1	0.035	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:24:00 AM	0.1	0.035	0.000
10:25:00 AM	0.1	0.035	0.000
10:26:00 AM	0.1	0.035	0.000
10:27:00 AM	0.1	0.035	0.000
10:28:00 AM	0.2	0.034	0.000
10:29:00 AM	0.1	0.035	0.000
10:30:00 AM	0.1	0.035	0.000
10:31:00 AM	0.1	0.035	0.000
10:32:00 AM	0.1	0.035	0.000
10:33:00 AM	0.2	0.034	0.000
10:34:00 AM	0.2	0.034	0.000
10:35:00 AM	0.1	0.034	0.000
10:36:00 AM	0.2	0.034	0.000
10:37:00 AM	0.1	0.034	0.000
10:38:00 AM	0.2	0.036	0.000
10:39:00 AM	0.2	0.038	0.000
10:40:00 AM	0.2	0.035	0.000
10:41:00 AM	0.2	0.035	0.000
10:42:00 AM	0.2	0.035	0.000
10:43:00 AM	0.2	0.036	0.000
10:44:00 AM	0.2	0.036	0.000
10:45:00 AM	0.2	0.036	0.000
10:46:00 AM	0.2	0.035	0.000
10:47:00 AM	0.2	0.036	0.000
10:48:00 AM	0.2	0.036	0.000
10:49:00 AM	0.2	0.036	0.000
10:50:00 AM	0.2	0.037	0.000
10:51:00 AM	0.2	0.036	0.000
10:52:00 AM	0.2	0.036	0.000
10:53:00 AM	0.2	0.036	0.000
10:54:00 AM	0.2	0.036	0.000
10:55:00 AM	0.3	0.037	0.000
10:56:00 AM	0.2	0.038	0.000
10:57:00 AM	0.2	0.038	0.000
10:58:00 AM	0.2	0.038	0.000
10:59:00 AM	0.2	0.037	0.000
11:00:00 AM	0.3	0.038	0.000
11:01:00 AM	0.3	0.037	0.000
11:02:00 AM	0.3	0.035	0.000
11:03:00 AM	0.3	0.035	0.000
11:04:00 AM	0.3	0.034	0.000
11:05:00 AM	0.3	0.035	0.000
11:06:00 AM	0.3	0.034	0.000
11:07:00 AM	0.3	0.035	0.000
11:08:00 AM	0.3	0.034	0.000
11:09:00 AM	0.3	0.035	0.000
11:10:00 AM	0.3	0.035	0.000
11:11:00 AM	0.3	0.035	0.000
11:12:00 AM	0.3	0.035	0.000
11:13:00 AM	0.3	0.035	0.000
11:14:00 AM	0.3	0.034	0.000
11:15:00 AM	0.3	0.034	0.000
11:16:00 AM	0.3	0.035	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:17:00 AM	0.3	0.035	0.000
11:18:00 AM	0.3	0.035	0.000
11:19:00 AM	0.3	0.035	0.000
11:20:00 AM	0.3	0.035	0.000
11:21:00 AM	0.3	0.035	0.000
11:22:00 AM	0.3	0.036	0.000
11:23:00 AM	0.3	0.036	0.000
11:24:00 AM	0.3	0.035	0.000
11:25:00 AM	0.3	0.036	0.000
11:26:00 AM	0.3	0.036	0.000
11:27:00 AM	0.3	0.036	0.000
11:28:00 AM	0.3	0.036	0.000
11:29:00 AM	0.3	0.037	0.000
11:30:00 AM	0.4	0.036	0.000
11:31:00 AM	0.4	0.037	0.000
11:32:00 AM	0.4	0.036	0.000
11:33:00 AM	0.4	0.037	0.000
11:34:00 AM	0.4	0.037	0.000
11:35:00 AM	0.4	0.038	0.000
11:36:00 AM	0.4	0.039	0.000
11:37:00 AM	0.4	0.038	0.000
11:38:00 AM	0.4	0.039	0.000
11:39:00 AM	0.4	0.040	0.000
11:40:00 AM	0.4	0.040	0.000
11:41:00 AM	0.4	0.039	0.000
11:42:00 AM	0.4	0.039	0.000
11:43:00 AM	0.4	0.039	0.000
11:44:00 AM	0.4	0.038	0.000
11:45:00 AM	0.4	0.039	0.000
11:46:00 AM	0.4	0.039	0.000
11:47:00 AM	0.4	0.040	0.000
11:48:00 AM	0.4	0.039	0.000
11:49:00 AM	0.4	0.039	0.000
11:50:00 AM	0.4	0.039	0.000
11:51:00 AM	0.4	0.039	0.000
11:52:00 AM	0.4	0.040	0.000
11:53:00 AM	0.4	0.039	0.000
11:54:00 AM	0.4	0.044	0.000
11:55:00 AM	0.4	0.048	0.000
11:56:00 AM	0.4	0.045	0.000
11:57:00 AM	0.4	0.046	0.000
11:58:00 AM	0.4	0.045	0.000
11:59:00 AM	0.5	0.047	0.000
12:00:00 PM	0.4	0.040	0.000
12:01:00 PM	0.4	0.041	0.000
12:02:00 PM	0.4	0.040	0.000
12:03:00 PM	0.5	0.040	0.000
12:04:00 PM	0.5	0.040	0.000
12:05:00 PM	0.5	0.041	0.000
12:06:00 PM	0.5	0.042	0.000
12:07:00 PM	0.5	0.040	0.000
12:08:00 PM	0.5	0.040	0.000
12:09:00 PM	0.5	0.042	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:10:00 PM	0.5	0.048	0.000
12:11:00 PM	0.5	0.045	0.000
12:12:00 PM	0.5	0.044	0.000
12:13:00 PM	0.5	0.043	0.000
12:14:00 PM	0.5	0.043	0.000
12:15:00 PM	0.5	0.043	0.000
12:16:00 PM	0.5	0.043	0.000
12:17:00 PM	0.5	0.043	0.000
12:18:00 PM	0.5	0.043	0.000
12:19:00 PM	0.5	0.042	0.000
12:20:00 PM	0.5	0.042	0.000
12:21:00 PM	0.5	0.041	0.000
12:22:00 PM	0.5	0.045	0.000
12:23:00 PM	0.5	0.043	0.000
12:24:00 PM	0.5	0.041	0.000
12:25:00 PM	0.5	0.041	0.000
12:26:00 PM	0.5	0.041	0.000
12:27:00 PM	0.5	0.042	0.000
12:28:00 PM	0.5	0.042	0.000
12:29:00 PM	0.5	0.041	0.000
12:30:00 PM	0.5	0.042	0.000
12:31:00 PM	0.5	0.043	0.000
12:32:00 PM	0.5	0.042	0.000
12:33:00 PM	0.5	0.042	0.000
12:34:00 PM	0.5	0.042	0.000
12:35:00 PM	0.5	0.042	0.000
12:36:00 PM	0.5	0.042	0.000
12:37:00 PM	0.5	0.042	0.000
12:38:00 PM	0.5	0.042	0.000
12:39:00 PM	0.5	0.043	0.000
12:40:00 PM	0.5	0.042	0.000
12:41:00 PM	0.5	0.042	0.000
12:42:00 PM	0.5	0.042	0.000
12:43:00 PM	0.5	0.043	0.000
12:44:00 PM	0.5	0.044	0.000
12:45:00 PM	0.5	0.043	0.000
12:46:00 PM	0.5	0.043	0.000
12:47:00 PM	0.5	0.043	0.000
12:48:00 PM	0.5	0.043	0.000
12:49:00 PM	0.5	0.044	0.000
12:50:00 PM	0.5	0.044	0.000
12:51:00 PM	0.6	0.044	0.000
12:52:00 PM	0.6	0.044	0.000
12:53:00 PM	0.6	0.045	0.000
12:54:00 PM	0.6	0.049	0.000
12:55:00 PM	0.6	0.048	0.000
12:56:00 PM	0.6	0.045	0.000
12:57:00 PM	0.6	0.045	0.000
12:58:00 PM	0.6	0.046	0.000
12:59:00 PM	0.5	0.047	0.000
1:00:00 PM	0.6	0.045	0.000
1:01:00 PM	0.6	0.050	0.000
1:02:00 PM	0.6	0.046	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:03:00 PM	0.6	0.043	0.000
1:04:00 PM	0.5	0.044	0.000
1:05:00 PM	0.6	0.043	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:25:00 AM	0.0	0.000	0.000
9:26:00 AM	0.0	0.000	0.000
9:27:00 AM	0.0	0.252	0.000
9:28:00 AM	0.0	0.031	0.000
9:29:00 AM	0.0	0.030	0.000
9:30:00 AM	0.0	0.029	0.000
9:31:00 AM	0.1	0.031	0.000
9:32:00 AM	0.1	0.027	0.000
9:33:00 AM	0.1	0.027	0.000
9:34:00 AM	0.1	0.026	0.000
9:35:00 AM	0.1	0.027	0.000
9:36:00 AM	0.1	0.028	0.000
9:37:00 AM	0.1	0.027	0.000
9:38:00 AM	0.1	0.028	0.000
9:39:00 AM	0.1	0.027	0.000
9:40:00 AM	0.1	0.050	0.000
9:41:00 AM	0.1	0.039	0.000
9:42:00 AM	0.1	0.031	0.000
9:43:00 AM	0.1	0.031	0.000
9:44:00 AM	0.1	0.032	0.000
9:45:00 AM	0.1	0.031	0.000
9:46:00 AM	0.1	0.035	0.000
9:47:00 AM	0.1	0.033	0.000
9:48:00 AM	0.2	0.031	0.000
9:49:00 AM	0.1	0.032	0.000
9:50:00 AM	0.1	0.032	0.000
9:51:00 AM	0.1	0.031	0.000
9:52:00 AM	0.1	0.031	0.000
9:53:00 AM	0.1	0.032	0.000
9:54:00 AM	0.2	0.032	0.000
9:55:00 AM	0.1	0.038	0.000
9:56:00 AM	0.1	0.036	0.000
9:57:00 AM	0.1	0.034	0.000
9:58:00 AM	0.1	0.036	0.000
9:59:00 AM	0.1	0.042	0.000
10:00:00 AM	0.1	0.036	0.000
10:01:00 AM	0.1	0.037	0.000
10:02:00 AM	0.1	0.038	0.000
10:03:00 AM	0.1	0.037	0.000
10:04:00 AM	0.1	0.044	0.000
10:05:00 AM	0.1	0.037	0.000
10:06:00 AM	0.1	0.041	0.000
10:07:00 AM	0.1	0.035	0.000
10:08:00 AM	0.1	0.034	0.000
10:09:00 AM	0.1	0.033	0.000
10:10:00 AM	0.1	0.033	0.000
10:11:00 AM	0.1	0.033	0.000
10:12:00 AM	0.1	0.033	0.000
10:13:00 AM	0.1	0.044	0.000
10:14:00 AM	0.1	0.035	0.000
10:15:00 AM	0.1	0.050	0.000
10:16:00 AM	0.2	0.040	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:17:00 AM	0.2	0.039	0.000
10:18:00 AM	0.2	0.038	0.000
10:19:00 AM	0.2	0.037	0.000
10:20:00 AM	0.2	0.035	0.000
10:21:00 AM	0.2	0.035	0.000
10:22:00 AM	0.1	0.035	0.000
10:23:00 AM	0.2	0.035	0.000
10:24:00 AM	0.2	0.034	0.000
10:25:00 AM	0.2	0.036	0.000
10:26:00 AM	0.2	0.034	0.000
10:27:00 AM	0.2	0.034	0.000
10:28:00 AM	0.2	0.034	0.000
10:29:00 AM	0.2	0.034	0.000
10:30:00 AM	0.2	0.034	0.000
10:31:00 AM	0.2	0.034	0.000
10:32:00 AM	0.2	0.034	0.000
10:33:00 AM	0.2	0.034	0.000
10:34:00 AM	0.2	0.034	0.000
10:35:00 AM	0.2	0.033	0.000
10:36:00 AM	0.2	0.033	0.000
10:37:00 AM	0.2	0.034	0.000
10:38:00 AM	0.2	0.037	0.000
10:39:00 AM	0.2	0.036	0.000
10:40:00 AM	0.2	0.035	0.000
10:41:00 AM	0.2	0.034	0.000
10:42:00 AM	0.2	0.036	0.000
10:43:00 AM	0.2	0.037	0.000
10:44:00 AM	0.2	0.035	0.000
10:45:00 AM	0.2	0.035	0.000
10:46:00 AM	0.2	0.037	0.000
10:47:00 AM	0.2	0.035	0.000
10:48:00 AM	0.2	0.042	0.000
10:49:00 AM	0.2	0.039	0.000
10:50:00 AM	0.2	0.039	0.000
10:51:00 AM	0.2	0.040	0.000
10:52:00 AM	0.2	0.035	0.000
10:53:00 AM	0.2	0.036	0.000
10:54:00 AM	0.2	0.037	0.000
10:55:00 AM	0.2	0.036	0.000
10:56:00 AM	0.2	0.037	0.000
10:57:00 AM	0.2	0.036	0.000
10:58:00 AM	0.2	0.039	0.000
10:59:00 AM	0.2	0.055	0.000
11:00:00 AM	0.2	0.038	0.000
11:01:00 AM	0.2	0.036	0.000
11:02:00 AM	0.2	0.034	0.000
11:03:00 AM	0.2	0.034	0.000
11:04:00 AM	0.2	0.033	0.000
11:05:00 AM	0.2	0.034	0.000
11:06:00 AM	0.2	0.034	0.000
11:07:00 AM	0.2	0.034	0.000
11:08:00 AM	0.2	0.034	0.000
11:09:00 AM	0.2	0.034	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:10:00 AM	0.2	0.037	0.000
11:11:00 AM	0.2	0.033	0.000
11:12:00 AM	0.2	0.037	0.000
11:13:00 AM	0.2	0.041	0.000
11:14:00 AM	0.2	0.034	0.000
11:15:00 AM	0.2	0.034	0.000
11:16:00 AM	0.2	0.035	0.000
11:17:00 AM	0.2	0.035	0.000
11:18:00 AM	0.2	0.038	0.000
11:19:00 AM	0.2	0.037	0.000
11:20:00 AM	0.2	0.044	0.000
11:21:00 AM	0.2	0.035	0.000
11:22:00 AM	0.2	0.035	0.000
11:23:00 AM	0.2	0.035	0.000
11:24:00 AM	0.2	0.034	0.000
11:25:00 AM	0.2	0.036	0.000
11:26:00 AM	0.2	0.035	0.000
11:27:00 AM	0.2	0.036	0.000
11:28:00 AM	0.2	0.036	0.000
11:29:00 AM	0.2	0.046	0.000
11:30:00 AM	0.2	0.036	0.000
11:31:00 AM	0.2	0.037	0.000
11:32:00 AM	0.2	0.037	0.000
11:33:00 AM	0.2	0.037	0.000
11:34:00 AM	0.2	0.037	0.000
11:35:00 AM	0.2	0.037	0.000
11:36:00 AM	0.2	0.038	0.000
11:37:00 AM	0.2	0.041	0.000
11:38:00 AM	0.2	0.039	0.000
11:39:00 AM	0.2	0.039	0.000
11:40:00 AM	0.2	0.040	0.000
11:41:00 AM	0.2	0.039	0.000
11:42:00 AM	0.2	0.040	0.000
11:43:00 AM	0.2	0.040	0.000
11:44:00 AM	0.2	0.051	0.000
11:45:00 AM	0.2	0.043	0.000
11:46:00 AM	0.2	0.040	0.000
11:47:00 AM	0.2	0.039	0.000
11:48:00 AM	0.2	0.039	0.000
11:49:00 AM	0.2	0.038	0.000
11:50:00 AM	0.2	0.038	0.000
11:51:00 AM	0.2	0.038	0.000
11:52:00 AM	0.2	0.039	0.000
11:53:00 AM	0.2	0.038	0.000
11:54:00 AM	0.2	0.038	0.000
11:55:00 AM	0.2	0.037	0.000
11:56:00 AM	0.2	0.037	0.000
11:57:00 AM	0.2	0.038	0.000
11:58:00 AM	0.2	0.038	0.000
11:59:00 AM	0.2	0.038	0.000
12:00:00 PM	0.2	0.038	0.000
12:01:00 PM	0.2	0.037	0.000
12:02:00 PM	0.2	0.038	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:03:00 PM	0.2	0.037	0.000
12:04:00 PM	0.2	0.036	0.000
12:05:00 PM	0.6	0.038	0.000
12:06:00 PM	0.2	0.040	0.000
12:07:00 PM	0.2	0.038	0.000
12:08:00 PM	0.2	0.039	0.000
12:09:00 PM	0.2	0.039	0.000
12:10:00 PM	0.2	0.042	0.000
12:11:00 PM	0.2	0.041	0.000
12:12:00 PM	0.2	0.041	0.000
12:13:00 PM	0.2	0.040	0.000
12:14:00 PM	0.2	0.041	0.000
12:15:00 PM	0.2	0.041	0.000
12:16:00 PM	0.2	0.040	0.000
12:17:00 PM	0.2	0.040	0.000
12:18:00 PM	0.2	0.040	0.000
12:19:00 PM	0.2	0.041	0.000
12:20:00 PM	0.2	0.040	0.000
12:21:00 PM	0.2	0.039	0.000
12:22:00 PM	0.2	0.040	0.000
12:23:00 PM	0.2	0.038	0.000
12:24:00 PM	0.2	0.039	0.000
12:25:00 PM	0.2	0.038	0.000
12:26:00 PM	0.2	0.038	0.000
12:27:00 PM	0.2	0.041	0.000
12:28:00 PM	0.2	0.039	0.000
12:29:00 PM	0.2	0.039	0.000
12:30:00 PM	0.2	0.040	0.000
12:31:00 PM	0.2	0.040	0.000
12:32:00 PM	0.2	0.040	0.000
12:33:00 PM	0.2	0.040	0.000
12:34:00 PM	0.2	0.041	0.000
12:35:00 PM	0.2	0.041	0.000
12:36:00 PM	0.2	0.040	0.000
12:37:00 PM	0.2	0.040	0.000
12:38:00 PM	0.2	0.041	0.000
12:39:00 PM	0.2	0.041	0.000
12:40:00 PM	0.2	0.041	0.000
12:41:00 PM	0.2	0.042	0.000
12:42:00 PM	0.2	0.041	0.000
12:43:00 PM	0.2	0.040	0.000
12:44:00 PM	0.2	0.041	0.000
12:45:00 PM	0.2	0.040	0.000
12:46:00 PM	0.2	0.040	0.000
12:47:00 PM	0.2	0.040	0.000
12:48:00 PM	0.2	0.040	0.000
12:49:00 PM	0.2	0.041	0.000
12:50:00 PM	0.2	0.042	0.000
12:51:00 PM	0.2	0.043	0.000
12:52:00 PM	0.2	0.042	0.000
12:53:00 PM	0.2	0.043	0.000
12:54:00 PM	0.2	0.045	0.000
12:55:00 PM	0.2	0.044	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:56:00 PM	0.2	0.046	0.000
12:57:00 PM	0.2	0.044	0.000
12:58:00 PM	0.2	0.063	0.000
12:59:00 PM	0.2	0.046	0.000
1:00:00 PM	0.2	0.046	0.000
1:01:00 PM	0.2	0.049	0.000
1:02:00 PM	0.2	0.048	0.000
1:03:00 PM	0.2	0.045	0.000
1:04:00 PM	0.2	0.048	0.000
1:05:00 PM	0.2	0.051	0.000
1:06:00 PM	0.2	0.046	0.000
1:07:00 PM	0.2	0.043	0.000
1:08:00 PM	0.2	0.045	0.000
1:09:00 PM	0.2	0.048	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:38:00 AM	0.0	0.071	0.000
9:39:00 AM	0.0	0.039	0.000
9:40:00 AM	0.0	0.105	0.000
9:41:00 AM	0.0	0.039	0.000
9:42:00 AM	0.0	0.039	0.000
9:43:00 AM	0.0	0.041	0.000
9:44:00 AM	0.0	0.042	0.000
9:45:00 AM	0.0	0.041	0.000
9:46:00 AM	0.0	0.043	0.000
9:47:00 AM	0.0	0.040	0.000
9:48:00 AM	0.0	0.049	0.000
9:49:00 AM	0.0	0.052	0.000
9:50:00 AM	0.0	0.041	0.000
9:51:00 AM	0.0	0.041	0.000
9:52:00 AM	0.0	0.040	0.000
9:53:00 AM	0.0	0.041	0.000
9:54:00 AM	0.0	0.041	0.000
9:55:00 AM	0.0	0.055	0.000
9:56:00 AM	0.0	0.049	0.000
9:57:00 AM	0.0	0.042	0.000
9:58:00 AM	0.0	0.046	0.000
9:59:00 AM	0.0	0.044	0.000
10:00:00 AM	0.0	0.049	0.000
10:01:00 AM	0.0	0.045	0.000
10:02:00 AM	0.0	0.047	0.000
10:03:00 AM	0.0	0.042	0.000
10:04:00 AM	0.0	0.046	0.000
10:05:00 AM	0.0	0.042	0.000
10:06:00 AM	0.0	0.045	0.000
10:07:00 AM	0.0	0.047	0.000
10:08:00 AM	0.0	0.044	0.000
10:09:00 AM	0.0	0.043	0.000
10:10:00 AM	0.0	0.044	0.000
10:11:00 AM	0.0	0.044	0.000
10:12:00 AM	0.0	0.044	0.000
10:13:00 AM	0.0	0.043	0.000
10:14:00 AM	0.0	0.053	0.000
10:15:00 AM	0.0	0.045	0.000
10:16:00 AM	0.1	0.084	0.000
10:17:00 AM	0.1	0.052	0.000
10:18:00 AM	0.1	0.048	0.000
10:19:00 AM	0.1	0.047	0.000
10:20:00 AM	0.1	0.049	0.000
10:21:00 AM	0.1	0.051	0.000
10:22:00 AM	0.1	0.048	0.000
10:23:00 AM	0.1	0.049	0.000
10:24:00 AM	0.0	0.046	0.000
10:25:00 AM	0.0	0.046	0.000
10:26:00 AM	0.0	0.045	0.000
10:27:00 AM	0.0	0.044	0.000
10:28:00 AM	0.0	0.044	0.000
10:29:00 AM	0.1	0.044	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:30:00 AM	0.0	0.049	0.000
10:31:00 AM	0.0	0.043	0.000
10:32:00 AM	0.1	0.046	0.000
10:33:00 AM	0.1	0.045	0.000
10:34:00 AM	0.1	0.045	0.000
10:35:00 AM	0.1	0.043	0.000
10:36:00 AM	0.1	0.043	0.000
10:37:00 AM	0.1	0.042	0.000
10:38:00 AM	0.1	0.044	0.000
10:39:00 AM	0.1	0.047	0.000
10:40:00 AM	0.1	0.044	0.000
10:41:00 AM	0.1	0.044	0.000
10:42:00 AM	0.1	0.044	0.000
10:43:00 AM	0.1	0.044	0.000
10:44:00 AM	0.1	0.044	0.000
10:45:00 AM	0.1	0.044	0.000
10:46:00 AM	0.1	0.046	0.000
10:47:00 AM	0.1	0.045	0.000
10:48:00 AM	0.1	0.046	0.000
10:49:00 AM	0.1	0.047	0.000
10:50:00 AM	0.1	0.048	0.000
10:51:00 AM	0.1	0.046	0.000
10:52:00 AM	0.1	0.045	0.000
10:53:00 AM	0.1	0.046	0.000
10:54:00 AM	0.1	0.046	0.000
10:55:00 AM	0.1	0.047	0.000
10:56:00 AM	0.1	0.047	0.000
10:57:00 AM	0.1	0.051	0.000
10:58:00 AM	0.1	0.051	0.000
10:59:00 AM	0.1	0.080	0.000
11:00:00 AM	0.1	0.055	0.000
11:01:00 AM	0.1	0.048	0.000
11:02:00 AM	0.2	0.050	0.000
11:03:00 AM	0.1	0.052	0.000
11:04:00 AM	0.1	0.045	0.000
11:05:00 AM	0.1	0.043	0.000
11:06:00 AM	0.1	0.044	0.000
11:07:00 AM	0.1	0.042	0.000
11:08:00 AM	0.1	0.046	0.000
11:09:00 AM	0.1	0.057	0.000
11:10:00 AM	0.1	0.049	0.000
11:11:00 AM	0.1	0.047	0.000
11:12:00 AM	0.1	0.046	0.000
11:13:00 AM	0.1	0.045	0.000
11:14:00 AM	0.1	0.045	0.000
11:15:00 AM	0.1	0.044	0.000
11:16:00 AM	0.1	0.044	0.000
11:17:00 AM	0.1	0.044	0.000
11:18:00 AM	0.1	0.044	0.000
11:19:00 AM	0.1	0.045	0.000
11:20:00 AM	0.1	0.059	0.000
11:21:00 AM	0.1	0.046	0.000
11:22:00 AM	0.1	0.046	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:23:00 AM	0.1	0.054	0.000
11:24:00 AM	0.1	0.044	0.000
11:25:00 AM	0.1	0.044	0.000
11:26:00 AM	0.1	0.046	0.000
11:27:00 AM	0.1	0.047	0.000
11:28:00 AM	0.1	0.047	0.000
11:29:00 AM	0.1	0.046	0.000
11:30:00 AM	0.1	0.045	0.000
11:31:00 AM	0.1	0.046	0.000
11:32:00 AM	0.1	0.046	0.000
11:33:00 AM	0.1	0.045	0.000
11:34:00 AM	0.1	0.046	0.000
11:35:00 AM	0.1	0.047	0.000
11:36:00 AM	0.1	0.046	0.000
11:37:00 AM	0.1	0.048	0.000
11:38:00 AM	0.1	0.049	0.000
11:39:00 AM	0.1	0.050	0.000
11:40:00 AM	0.2	0.050	0.000
11:41:00 AM	0.1	0.049	0.000
11:42:00 AM	0.1	0.049	0.000
11:43:00 AM	0.1	0.050	0.000
11:44:00 AM	0.1	0.048	0.000
11:45:00 AM	0.1	0.048	0.000
11:46:00 AM	0.1	0.048	0.000
11:47:00 AM	0.1	0.048	0.000
11:48:00 AM	0.1	0.048	0.000
11:49:00 AM	0.1	0.048	0.000
11:50:00 AM	0.1	0.048	0.000
11:51:00 AM	0.2	0.055	0.000
11:52:00 AM	0.1	0.068	0.000
11:53:00 AM	0.1	0.053	0.000
11:54:00 AM	0.1	0.049	0.000
11:55:00 AM	0.1	0.049	0.000
11:56:00 AM	0.1	0.049	0.000
11:57:00 AM	0.1	0.062	0.000
11:58:00 AM	0.1	0.057	0.000
11:59:00 AM	0.1	0.055	0.000
12:00:00 PM	0.1	0.051	0.000
12:01:00 PM	0.1	0.051	0.000
12:02:00 PM	0.1	0.051	0.000
12:03:00 PM	0.1	0.050	0.000
12:04:00 PM	0.1	0.051	0.000
12:05:00 PM	0.2	0.051	0.000
12:06:00 PM	0.1	0.058	0.000
12:07:00 PM	0.2	0.053	0.000
12:08:00 PM	0.1	0.052	0.000
12:09:00 PM	0.2	0.053	0.000
12:10:00 PM	0.2	0.060	0.000
12:11:00 PM	0.1	0.079	0.000
12:12:00 PM	0.1	0.058	0.000
12:13:00 PM	0.1	0.058	0.000
12:14:00 PM	0.1	0.054	0.000
12:15:00 PM	0.1	0.055	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:16:00 PM	0.1	0.057	0.000
12:17:00 PM	0.1	0.051	0.000
12:18:00 PM	0.1	0.051	0.000
12:19:00 PM	0.1	0.051	0.000
12:20:00 PM	0.1	0.050	0.000
12:21:00 PM	0.1	0.050	0.000
12:22:00 PM	0.1	0.048	0.000
12:23:00 PM	0.1	0.050	0.000
12:24:00 PM	0.1	0.049	0.000
12:25:00 PM	0.1	0.049	0.000
12:26:00 PM	0.1	0.049	0.000
12:27:00 PM	0.1	0.049	0.000
12:28:00 PM	0.1	0.050	0.000
12:29:00 PM	0.1	0.050	0.000
12:30:00 PM	0.1	0.050	0.000
12:31:00 PM	0.1	0.050	0.000
12:32:00 PM	0.1	0.050	0.000
12:33:00 PM	0.1	0.051	0.000
12:34:00 PM	0.1	0.051	0.000
12:35:00 PM	0.1	0.051	0.000
12:36:00 PM	0.1	0.051	0.000
12:37:00 PM	0.1	0.051	0.000
12:38:00 PM	0.1	0.051	0.000
12:39:00 PM	0.1	0.051	0.000
12:40:00 PM	0.1	0.052	0.000
12:41:00 PM	0.1	0.052	0.000
12:42:00 PM	0.1	0.052	0.000
12:43:00 PM	0.1	0.051	0.000
12:44:00 PM	0.1	0.052	0.000
12:45:00 PM	0.1	0.052	0.000
12:46:00 PM	0.1	0.052	0.000
12:47:00 PM	0.1	0.053	0.000
12:48:00 PM	0.1	0.053	0.000
12:49:00 PM	0.1	0.053	0.000
12:50:00 PM	0.1	0.054	0.000
12:51:00 PM	0.1	0.053	0.000
12:52:00 PM	0.1	0.054	0.000
12:53:00 PM	0.1	0.054	0.000
12:54:00 PM	0.1	0.054	0.000
12:55:00 PM	0.1	0.056	0.000
12:56:00 PM	0.1	0.055	0.000
12:57:00 PM	0.1	0.058	0.000
12:58:00 PM	0.1	0.060	0.000
12:59:00 PM	0.1	0.062	0.000
1:00:00 PM	0.1	0.053	0.000
1:01:00 PM	0.1	0.053	0.000
1:02:00 PM	0.1	0.053	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 8 mph	Date:	1/12/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues to backfilling the excavation areas within area #4 with sand in ten (10) inch lifts. All lifts are compacted with a gas-powered compactor. Aarco removes shoring box and panels from excavation while backfilling. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.058	0.000	0.1	0.068	0.000
Down Wind	0.2	0.077	0.000	0.3	0.089	0.000
Work Zone	0.2	0.062	0.000	0.2	0.075	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will start excavating area #6.



View of excavation area.



Endpoint sample location preserved for survey.

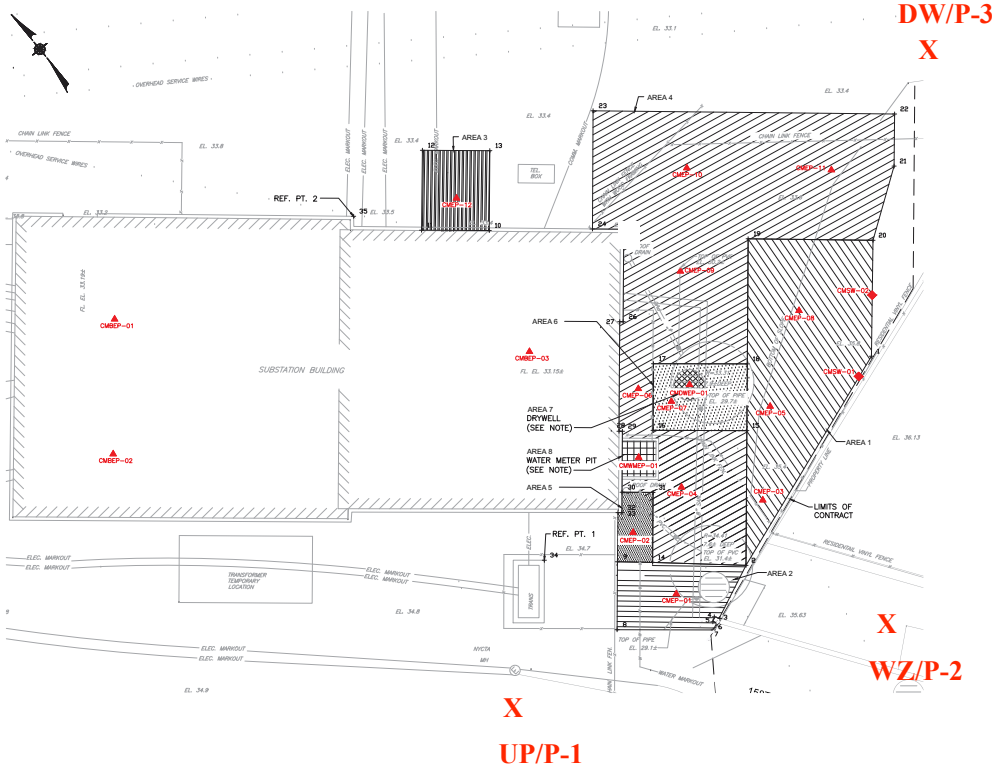


Aarco compacting all backfill in ten (10) inch lifts.



Aarco removing digging box from excavation area.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:33:00 AM	0.0		0.000
9:34:00 AM	0.0		0.000
9:35:00 AM	0.0	0.079	0.000
9:36:00 AM	0.0	0.075	0.000
9:37:00 AM	0.0	0.074	0.000
9:38:00 AM	0.0	0.072	0.000
9:39:00 AM	0.0	0.071	0.000
9:40:00 AM	0.0	0.069	0.000
9:41:00 AM	0.0	0.069	0.000
9:42:00 AM	0.0	0.069	0.000
9:43:00 AM	0.0	0.067	0.000
9:44:00 AM	0.0	0.065	0.000
9:45:00 AM	0.0	0.063	0.000
9:46:00 AM	0.0	0.062	0.000
9:47:00 AM	0.0	0.061	0.000
9:48:00 AM	0.0	0.060	0.000
9:49:00 AM	0.0	0.059	0.000
9:50:00 AM	0.0	0.060	0.000
9:51:00 AM	0.0	0.064	0.000
9:52:00 AM	0.0	0.061	0.000
9:53:00 AM	0.0	0.060	0.000
9:54:00 AM	0.0	0.060	0.000
9:55:00 AM	0.0	0.060	0.000
9:56:00 AM	0.0	0.060	0.000
9:57:00 AM	0.0	0.060	0.000
9:58:00 AM	0.0	0.059	0.000
9:59:00 AM	0.0	0.060	0.000
10:00:00 AM	0.0	0.060	0.000
10:01:00 AM	0.0	0.061	0.000
10:02:00 AM	0.0	0.061	0.000
10:03:00 AM	0.0	0.061	0.000
10:04:00 AM	0.0	0.060	0.000
10:05:00 AM	0.0	0.060	0.000
10:06:00 AM	0.0	0.060	0.000
10:07:00 AM	0.0	0.060	0.000
10:08:00 AM	0.0	0.060	0.000
10:09:00 AM	0.0	0.061	0.000
10:10:00 AM	0.0	0.059	0.000
10:11:00 AM	0.0	0.059	0.000
10:12:00 AM	0.0	0.059	0.000
10:13:00 AM	0.0	0.060	0.000
10:14:00 AM	0.0	0.061	0.000
10:15:00 AM	0.0	0.062	0.000
10:16:00 AM	0.0	0.063	0.000
10:17:00 AM	0.1	0.062	0.000
10:18:00 AM	0.0	0.063	0.000
10:19:00 AM	0.0	0.062	0.000
10:20:00 AM	0.0	0.061	0.000
10:21:00 AM	0.0	0.060	0.000
10:22:00 AM	0.0	0.060	0.000
10:23:00 AM	0.0	0.060	0.000
10:24:00 AM	0.0	0.060	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:25:00 AM	0.0	0.060	0.000
10:26:00 AM	0.0	0.061	0.000
10:27:00 AM	0.0	0.060	0.000
10:28:00 AM	0.0	0.060	0.000
10:29:00 AM	0.1	0.062	0.000
10:30:00 AM	0.1	0.060	0.000
10:31:00 AM	0.1	0.058	0.000
10:32:00 AM	0.1	0.071	0.000
10:33:00 AM	0.1	0.063	0.000
10:34:00 AM	0.1	0.060	0.000
10:35:00 AM	0.1	0.058	0.000
10:36:00 AM	0.1	0.058	0.000
10:37:00 AM	0.1	0.059	0.000
10:38:00 AM	0.1	0.059	0.000
10:39:00 AM	0.1	0.059	0.000
10:40:00 AM	0.1	0.058	0.000
10:41:00 AM	0.1	0.058	0.000
10:42:00 AM	0.1	0.060	0.000
10:43:00 AM	0.1	0.058	0.000
10:44:00 AM	0.1	0.056	0.000
10:45:00 AM	0.1	0.054	0.000
10:46:00 AM	0.1	0.058	0.000
10:47:00 AM	0.1	0.055	0.000
10:48:00 AM	0.1	0.056	0.000
10:49:00 AM	0.1	0.056	0.000
10:50:00 AM	0.1	0.055	0.000
10:51:00 AM	0.1	0.054	0.000
10:52:00 AM	0.1	0.054	0.000
10:53:00 AM	0.1	0.054	0.000
10:54:00 AM	0.1	0.052	0.000
10:55:00 AM	0.1	0.052	0.000
10:56:00 AM	0.1	0.053	0.000
10:57:00 AM	0.1	0.054	0.000
10:58:00 AM	0.1	0.053	0.000
10:59:00 AM	0.1	0.054	0.000
11:00:00 AM	0.1	0.054	0.000
11:01:00 AM	0.1	0.054	0.000
11:02:00 AM	0.1	0.052	0.000
11:03:00 AM	0.1	0.054	0.000
11:04:00 AM	0.1	0.054	0.000
11:05:00 AM	0.1	0.052	0.000
11:06:00 AM	0.1	0.053	0.000
11:07:00 AM	0.1	0.054	0.000
11:08:00 AM	0.1	0.055	0.000
11:09:00 AM	0.1	0.056	0.000
11:10:00 AM	0.1	0.057	0.000
11:11:00 AM	0.1	0.056	0.000
11:12:00 AM	0.1	0.056	0.000
11:13:00 AM	0.1	0.056	0.000
11:14:00 AM	0.1	0.056	0.000
11:15:00 AM	0.1	0.056	0.000
11:16:00 AM	0.1	0.056	0.000
11:17:00 AM	0.1	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:18:00 AM	0.1	0.058	0.000
11:19:00 AM	0.1	0.057	0.000
11:20:00 AM	0.1	0.059	0.000
11:21:00 AM	0.1	0.057	0.000
11:22:00 AM	0.1	0.055	0.000
11:23:00 AM	0.1	0.058	0.000
11:24:00 AM	0.1	0.059	0.000
11:25:00 AM	0.1	0.059	0.000
11:26:00 AM	0.1	0.060	0.000
11:27:00 AM	0.1	0.059	0.000
11:28:00 AM	0.1	0.057	0.000
11:29:00 AM	0.1	0.060	0.000
11:30:00 AM	0.1	0.061	0.000
11:31:00 AM	0.1	0.060	0.000
11:32:00 AM	0.1	0.061	0.000
11:33:00 AM	0.1	0.061	0.000
11:34:00 AM	0.1	0.062	0.000
11:35:00 AM	0.1	0.063	0.000
11:36:00 AM	0.1	0.063	0.000
11:37:00 AM	0.1	0.064	0.000
11:38:00 AM	0.1	0.064	0.000
11:39:00 AM	0.1	0.063	0.000
11:40:00 AM	0.1	0.061	0.000
11:41:00 AM	0.1	0.062	0.000
11:42:00 AM	0.1	0.063	0.000
11:43:00 AM	0.1	0.063	0.000
11:44:00 AM	0.1	0.061	0.000
11:45:00 AM	0.1	0.061	0.000
11:46:00 AM	0.1	0.061	0.000
11:47:00 AM	0.1	0.063	0.000
11:48:00 AM	0.1	0.064	0.000
11:49:00 AM	0.1	0.063	0.000
11:50:00 AM	0.1	0.065	0.000
11:51:00 AM	0.1	0.064	0.000
11:52:00 AM	0.1	0.064	0.000
11:53:00 AM	0.1	0.063	0.000
11:54:00 AM	0.1	0.064	0.000
11:55:00 AM	0.1	0.063	0.000
11:56:00 AM	0.1	0.063	0.000
11:57:00 AM	0.1	0.063	0.000
11:58:00 AM	0.1	0.064	0.000
11:59:00 AM	0.1	0.065	0.000
12:00:00 PM	0.1	0.066	0.000
12:01:00 PM	0.1	0.067	0.000
12:02:00 PM	0.1	0.067	0.000
12:03:00 PM	0.1	0.064	0.000
12:04:00 PM	0.1	0.065	0.000
12:05:00 PM	0.1	0.065	0.000
12:06:00 PM	0.1	0.065	0.000
12:07:00 PM	0.1	0.060	0.000
12:08:00 PM	0.1	0.058	0.000
12:09:00 PM	0.1	0.063	0.000
12:10:00 PM	0.1	0.064	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:11:00 PM	0.1	0.060	0.000
12:12:00 PM	0.1	0.054	0.000
12:13:00 PM	0.1	0.052	0.000
12:14:00 PM	0.2	0.053	0.000
12:15:00 PM	0.1	0.049	0.000
12:16:00 PM	0.1	0.044	0.000
12:17:00 PM	0.1	0.045	0.000
12:18:00 PM	0.1	0.045	0.000
12:19:00 PM	0.1	0.049	0.000
12:20:00 PM	0.1	0.049	0.000
12:21:00 PM	0.1	0.047	0.000
12:22:00 PM	0.1	0.047	0.000
12:23:00 PM	0.1	0.048	0.000
12:24:00 PM	0.1	0.051	0.000
12:25:00 PM	0.1	0.052	0.000
12:26:00 PM	0.1	0.052	0.000
12:27:00 PM	0.1	0.051	0.000
12:28:00 PM	0.1	0.052	0.000
12:29:00 PM	0.1	0.052	0.000
12:30:00 PM	0.1	0.051	0.000
12:31:00 PM	0.1	0.051	0.000
12:32:00 PM	0.1	0.051	0.000
12:33:00 PM	0.1	0.053	0.000
12:34:00 PM	0.1	0.057	0.000
12:35:00 PM	0.1	0.057	0.000
12:36:00 PM	0.1	0.056	0.000
12:37:00 PM	0.2	0.057	0.000
12:38:00 PM	0.1	0.055	0.000
12:39:00 PM	0.2	0.055	0.000
12:40:00 PM	0.1	0.055	0.000
12:41:00 PM	0.1	0.055	0.000
12:42:00 PM	0.1	0.055	0.000
12:43:00 PM	0.1	0.053	0.000
12:44:00 PM	0.1	0.053	0.000
12:45:00 PM	0.1	0.054	0.000
12:46:00 PM	0.1	0.055	0.000
12:47:00 PM	0.1	0.054	0.000
12:48:00 PM	0.2	0.054	0.000
12:49:00 PM	0.1	0.054	0.000
12:50:00 PM	0.1	0.054	0.000
12:51:00 PM	0.1	0.055	0.000
12:52:00 PM	0.1	0.055	0.000
12:53:00 PM	0.1	0.056	0.000
12:54:00 PM	0.1	0.055	0.000
12:55:00 PM	0.1	0.055	0.000
12:56:00 PM	0.1	0.054	0.000
12:57:00 PM	0.1	0.055	0.000
12:58:00 PM	0.1	0.056	0.000
12:59:00 PM	0.1	0.054	0.000
1:00:00 PM	0.1	0.048	0.000
1:01:00 PM	0.1	0.046	0.000
1:02:00 PM	0.1	0.045	0.000
1:03:00 PM	0.1	0.049	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:04:00 PM	0.1	0.050	0.000
1:05:00 PM	0.1	0.050	0.000
1:06:00 PM	0.1	0.065	0.000
1:07:00 PM	0.2	0.056	0.000
1:08:00 PM	0.2	0.073	0.000
1:09:00 PM	0.1	0.081	0.000
1:10:00 PM	0.1	0.056	0.000
1:11:00 PM	0.1	0.065	0.000
1:12:00 PM	0.2	0.057	0.000
1:13:00 PM	0.1	0.055	0.000
1:14:00 PM	0.1	0.055	0.000
1:15:00 PM	0.1	0.065	0.000
1:16:00 PM	0.1	0.056	0.000
1:17:00 PM	0.1	0.052	0.000
1:18:00 PM	0.1	0.053	0.000
1:19:00 PM	0.1	0.053	0.000
1:20:00 PM	0.1	0.054	0.000
1:21:00 PM	0.1	0.062	0.000
1:22:00 PM	0.1	0.056	0.000
1:23:00 PM	0.1	0.053	0.000
1:24:00 PM	0.1	0.056	0.000
1:25:00 PM	0.1	0.053	0.000
1:26:00 PM	0.1	0.056	0.000
1:27:00 PM	0.1	0.057	0.000
1:28:00 PM	0.2	0.055	0.000
1:29:00 PM	0.2	0.064	0.000
1:30:00 PM	0.2	0.070	0.000
1:31:00 PM	0.1	0.056	0.000
1:32:00 PM	0.1	0.057	0.000
1:33:00 PM	0.2	0.056	0.000
1:34:00 PM	0.1	0.055	0.000
1:35:00 PM	0.1	0.055	0.000
1:36:00 PM	0.1	0.055	0.000
1:37:00 PM	0.1	0.055	0.000
1:38:00 PM	0.1	0.054	0.000
1:39:00 PM	0.1	0.052	0.000
1:40:00 PM	0.1	0.052	0.000
1:41:00 PM	0.2	0.056	0.000
1:42:00 PM	0.1	0.054	0.000
1:43:00 PM	0.1	0.055	0.000
1:44:00 PM	0.1	0.056	0.000
1:45:00 PM	0.1	0.056	0.000
1:46:00 PM	0.2	0.057	0.000
1:47:00 PM	0.1	0.057	0.000
1:48:00 PM	0.1	0.057	0.000
1:49:00 PM	0.1	0.057	0.000
1:50:00 PM	0.1	0.058	0.000
1:51:00 PM	0.1	0.058	0.000
1:52:00 PM	0.2	0.057	0.000
1:53:00 PM	0.1	0.057	0.000
1:54:00 PM	0.1	0.056	0.000
1:55:00 PM	0.1	0.057	0.000
1:56:00 PM	0.1	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:57:00 PM	0.1	0.057	0.000
1:58:00 PM	0.1	0.056	0.000
1:59:00 PM	0.2	0.057	0.000
2:00:00 PM	0.2	0.056	0.000
2:01:00 PM	0.2	0.056	0.000
2:02:00 PM	0.1	0.056	0.000
2:03:00 PM	0.2	0.055	0.000
2:04:00 PM	0.2	0.056	0.000
2:05:00 PM	0.2	0.055	0.000
2:06:00 PM	0.1	0.055	0.000
2:07:00 PM	0.2	0.056	0.000
2:08:00 PM	0.1	0.057	0.000
2:09:00 PM	0.1	0.056	0.000
2:10:00 PM	0.2	0.056	0.000
2:11:00 PM	0.2	0.057	0.000
2:12:00 PM	0.1	0.055	0.000
2:13:00 PM	0.2	0.055	0.000
2:14:00 PM	0.2	0.080	0.000
2:15:00 PM	0.1	0.105	0.000
2:16:00 PM	0.2	0.071	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:38:00 AM	0.4		0.000
9:39:00 AM	0.1	0.211	0.000
9:40:00 AM	0.1	0.109	0.000
9:41:00 AM	0.1	0.091	0.000
9:42:00 AM	0.1	0.085	0.000
9:43:00 AM	0.1	0.093	0.000
9:44:00 AM	0.1	0.081	0.000
9:45:00 AM	0.1	0.077	0.000
9:46:00 AM	0.1	0.070	0.000
9:47:00 AM	0.1	0.066	0.000
9:48:00 AM	0.1	0.064	0.000
9:49:00 AM	0.1	0.063	0.000
9:50:00 AM	0.1	0.072	0.000
9:51:00 AM	0.1	0.071	0.000
9:52:00 AM	0.1	0.063	0.000
9:53:00 AM	0.1	0.062	0.000
9:54:00 AM	0.1	0.062	0.000
9:55:00 AM	0.1	0.064	0.000
9:56:00 AM	0.1	0.070	0.000
9:57:00 AM	0.1	0.068	0.000
9:58:00 AM	0.1	0.063	0.000
9:59:00 AM	0.1	0.064	0.000
10:00:00 AM	0.1	0.064	0.000
10:01:00 AM	0.1	0.067	0.000
10:02:00 AM	0.1	0.065	0.000
10:03:00 AM	0.1	0.068	0.000
10:04:00 AM	0.1	0.069	0.000
10:05:00 AM	0.1	0.069	0.000
10:06:00 AM	0.1	0.068	0.000
10:07:00 AM	0.1	0.064	0.000
10:08:00 AM	0.2	0.064	0.000
10:09:00 AM	0.2	0.064	0.000
10:10:00 AM	0.2	0.062	0.000
10:11:00 AM	0.2	0.069	0.000
10:12:00 AM	0.2	0.063	0.000
10:13:00 AM	0.2	0.063	0.000
10:14:00 AM	0.2	0.063	0.000
10:15:00 AM	0.2	0.070	0.000
10:16:00 AM	0.2	0.073	0.000
10:17:00 AM	0.2	0.076	0.000
10:18:00 AM	0.2	0.067	0.000
10:19:00 AM	0.2	0.069	0.000
10:20:00 AM	0.2	0.071	0.000
10:21:00 AM	0.2	0.070	0.000
10:22:00 AM	0.2	0.068	0.000
10:23:00 AM	0.2	0.064	0.000
10:24:00 AM	0.2	0.067	0.000
10:25:00 AM	0.2	0.066	0.000
10:26:00 AM	0.2	0.061	0.000
10:27:00 AM	0.2	0.060	0.000
10:28:00 AM	0.2	0.062	0.000
10:29:00 AM	0.2	0.062	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:30:00 AM	0.2	0.062	0.000
10:31:00 AM	0.2	0.065	0.000
10:32:00 AM	0.2	0.068	0.000
10:33:00 AM	0.2	0.066	0.000
10:34:00 AM	0.2	0.063	0.000
10:35:00 AM	0.2	0.060	0.000
10:36:00 AM	0.2	0.062	0.000
10:37:00 AM	0.2	0.062	0.000
10:38:00 AM	0.2	0.060	0.000
10:39:00 AM	0.2	0.060	0.000
10:40:00 AM	0.2	0.061	0.000
10:41:00 AM	0.2	0.062	0.000
10:42:00 AM	0.2	0.070	0.000
10:43:00 AM	0.2	0.065	0.000
10:44:00 AM	0.2	0.065	0.000
10:45:00 AM	0.3	0.064	0.000
10:46:00 AM	0.2	0.062	0.000
10:47:00 AM	0.2	0.066	0.000
10:48:00 AM	0.2	0.067	0.000
10:49:00 AM	0.2	0.064	0.000
10:50:00 AM	0.2	0.059	0.000
10:51:00 AM	0.2	0.057	0.000
10:52:00 AM	0.2	0.059	0.000
10:53:00 AM	0.2	0.059	0.000
10:54:00 AM	0.2	0.056	0.000
10:55:00 AM	0.2	0.058	0.000
10:56:00 AM	0.2	0.058	0.000
10:57:00 AM	0.2	0.058	0.000
10:58:00 AM	0.2	0.058	0.000
10:59:00 AM	0.2	0.059	0.000
11:00:00 AM	0.2	0.058	0.000
11:01:00 AM	0.2	0.058	0.000
11:02:00 AM	0.2	0.056	0.000
11:03:00 AM	0.2	0.059	0.000
11:04:00 AM	0.2	0.059	0.000
11:05:00 AM	0.2	0.057	0.000
11:06:00 AM	0.2	0.058	0.000
11:07:00 AM	0.2	0.058	0.000
11:08:00 AM	0.2	0.059	0.000
11:09:00 AM	0.2	0.060	0.000
11:10:00 AM	0.3	0.061	0.000
11:11:00 AM	0.2	0.060	0.000
11:12:00 AM	0.2	0.060	0.000
11:13:00 AM	0.2	0.059	0.000
11:14:00 AM	0.2	0.061	0.000
11:15:00 AM	0.2	0.062	0.000
11:16:00 AM	0.2	0.061	0.000
11:17:00 AM	0.3	0.062	0.000
11:18:00 AM	0.2	0.063	0.000
11:19:00 AM	0.2	0.064	0.000
11:20:00 AM	0.2	0.069	0.000
11:21:00 AM	0.2	0.063	0.000
11:22:00 AM	0.2	0.060	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:23:00 AM	0.2	0.065	0.000
11:24:00 AM	0.2	0.067	0.000
11:25:00 AM	0.2	0.064	0.000
11:26:00 AM	0.2	0.065	0.000
11:27:00 AM	0.2	0.067	0.000
11:28:00 AM	0.2	0.065	0.000
11:29:00 AM	0.2	0.070	0.000
11:30:00 AM	0.2	0.066	0.000
11:31:00 AM	0.2	0.067	0.000
11:32:00 AM	0.2	0.068	0.000
11:33:00 AM	0.2	0.069	0.000
11:34:00 AM	0.2	0.069	0.000
11:35:00 AM	0.2	0.070	0.000
11:36:00 AM	0.2	0.071	0.000
11:37:00 AM	0.2	0.074	0.000
11:38:00 AM	0.2	0.074	0.000
11:39:00 AM	0.2	0.073	0.000
11:40:00 AM	0.2	0.069	0.000
11:41:00 AM	0.2	0.067	0.000
11:42:00 AM	0.2	0.071	0.000
11:43:00 AM	0.2	0.072	0.000
11:44:00 AM	0.2	0.071	0.000
11:45:00 AM	0.2	0.071	0.000
11:46:00 AM	0.2	0.075	0.000
11:47:00 AM	0.2	0.082	0.000
11:48:00 AM	0.2	0.078	0.000
11:49:00 AM	0.3	0.071	0.000
11:50:00 AM	0.2	0.073	0.000
11:51:00 AM	0.2	0.075	0.000
11:52:00 AM	0.2	0.076	0.000
11:53:00 AM	0.2	0.077	0.000
11:54:00 AM	0.2	0.069	0.000
11:55:00 AM	0.2	0.071	0.000
11:56:00 AM	0.2	0.082	0.000
11:57:00 AM	0.2	0.073	0.000
11:58:00 AM	0.2	0.077	0.000
11:59:00 AM	0.2	0.073	0.000
12:00:00 PM	0.2	0.068	0.000
12:01:00 PM	0.2	0.070	0.000
12:02:00 PM	0.2	0.071	0.000
12:03:00 PM	0.2	0.065	0.000
12:04:00 PM	0.2	0.066	0.000
12:05:00 PM	0.2	0.067	0.000
12:06:00 PM	0.2	0.066	0.000
12:07:00 PM	0.2	0.062	0.000
12:08:00 PM	0.2	0.059	0.000
12:09:00 PM	0.2	0.065	0.000
12:10:00 PM	0.2	0.066	0.000
12:11:00 PM	0.2	0.061	0.000
12:12:00 PM	0.2	0.055	0.000
12:13:00 PM	0.2	0.055	0.000
12:14:00 PM	0.2	0.056	0.000
12:15:00 PM	0.2	0.050	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:16:00 PM	0.2	0.046	0.000
12:17:00 PM	0.2	0.047	0.000
12:18:00 PM	0.2	0.046	0.000
12:19:00 PM	0.2	0.050	0.000
12:20:00 PM	0.2	0.050	0.000
12:21:00 PM	0.2	0.048	0.000
12:22:00 PM	0.2	0.049	0.000
12:23:00 PM	0.2	0.048	0.000
12:24:00 PM	0.2	0.052	0.000
12:25:00 PM	0.2	0.052	0.000
12:26:00 PM	0.2	0.053	0.000
12:27:00 PM	0.2	0.052	0.000
12:28:00 PM	0.2	0.052	0.000
12:29:00 PM	0.2	0.052	0.000
12:30:00 PM	0.2	0.050	0.000
12:31:00 PM	0.2	0.050	0.000
12:32:00 PM	0.2	0.049	0.000
12:33:00 PM	0.2	0.054	0.000
12:34:00 PM	0.2	0.057	0.000
12:35:00 PM	0.2	0.058	0.000
12:36:00 PM	0.2	0.058	0.000
12:37:00 PM	0.2	0.058	0.000
12:38:00 PM	0.2	0.056	0.000
12:39:00 PM	0.2	0.055	0.000
12:40:00 PM	0.2	0.053	0.000
12:41:00 PM	0.2	0.054	0.000
12:42:00 PM	0.2	0.055	0.000
12:43:00 PM	0.2	0.054	0.000
12:44:00 PM	0.2	0.054	0.000
12:45:00 PM	0.2	0.056	0.000
12:46:00 PM	0.2	0.054	0.000
12:47:00 PM	0.2	0.053	0.000
12:48:00 PM	0.2	0.054	0.000
12:49:00 PM	0.2	0.053	0.000
12:50:00 PM	0.2	0.054	0.000
12:51:00 PM	0.2	0.053	0.000
12:52:00 PM	0.2	0.056	0.000
12:53:00 PM	0.2	0.057	0.000
12:54:00 PM	0.2	0.057	0.000
12:55:00 PM	0.2	0.054	0.000
12:56:00 PM	0.2	0.053	0.000
12:57:00 PM	0.2	0.053	0.000
12:58:00 PM	0.2	0.053	0.000
12:59:00 PM	0.2	0.049	0.000
1:00:00 PM	0.2	0.056	0.000
1:01:00 PM	0.2	0.061	0.000
1:02:00 PM	0.2	0.046	0.000
1:03:00 PM	0.2	0.049	0.000
1:04:00 PM	0.2	0.049	0.000
1:05:00 PM	0.2	0.056	0.000
1:06:00 PM	0.2	0.059	0.000
1:07:00 PM	0.2	0.057	0.000
1:08:00 PM	0.2	0.066	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:09:00 PM	0.2	0.057	0.000
1:10:00 PM	0.2	0.064	0.000
1:11:00 PM	0.2	0.063	0.000
1:12:00 PM	0.2	0.060	0.000
1:13:00 PM	0.2	0.058	0.000
1:14:00 PM	0.2	0.055	0.000
1:15:00 PM	0.2	0.052	0.000
1:16:00 PM	0.2	0.057	0.000
1:17:00 PM	0.2	0.058	0.000
1:18:00 PM	0.2	0.056	0.000
1:19:00 PM	0.2	0.066	0.000
1:20:00 PM	0.2	0.058	0.000
1:21:00 PM	0.2	0.055	0.000
1:22:00 PM	0.2	0.052	0.000
1:23:00 PM	0.2	0.057	0.000
1:24:00 PM	0.2	0.053	0.000
1:25:00 PM	0.2	0.060	0.000
1:26:00 PM	0.2	0.060	0.000
1:27:00 PM	0.2	0.061	0.000
1:28:00 PM	0.2	0.065	0.000
1:29:00 PM	0.2	0.060	0.000
1:30:00 PM	0.2	0.063	0.000
1:31:00 PM	0.2	0.059	0.000
1:32:00 PM	0.2	0.057	0.000
1:33:00 PM	0.2	0.058	0.000
1:34:00 PM	0.2	0.057	0.000
1:35:00 PM	0.2	0.056	0.000
1:36:00 PM	0.2	0.054	0.000
1:37:00 PM	0.2	0.053	0.000
1:38:00 PM	0.2	0.052	0.000
1:39:00 PM	0.2	0.051	0.000
1:40:00 PM	0.2	0.051	0.000
1:41:00 PM	0.2	0.060	0.000
1:42:00 PM	0.2	0.052	0.000
1:43:00 PM	0.2	0.054	0.000
1:44:00 PM	0.2	0.054	0.000
1:45:00 PM	0.2	0.055	0.000
1:46:00 PM	0.2	0.055	0.000
1:47:00 PM	0.2	0.063	0.000
1:48:00 PM	0.2	0.060	0.000
1:49:00 PM	0.2	0.061	0.000
1:50:00 PM	0.2	0.061	0.000
1:51:00 PM	0.2	0.059	0.000
1:52:00 PM	0.2	0.061	0.000
1:53:00 PM	0.2	0.061	0.000
1:54:00 PM	0.2	0.057	0.000
1:55:00 PM	0.2	0.058	0.000
1:56:00 PM	0.2	0.060	0.000
1:57:00 PM	0.2	0.063	0.000
1:58:00 PM	0.2	0.063	0.000
1:59:00 PM	0.2	0.069	0.000
2:00:00 PM	0.2	0.066	0.000
2:01:00 PM	0.2	0.069	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:02:00 PM	0.2	0.067	0.000
2:03:00 PM	0.2	0.06	0.000
2:04:00 PM	0.2	0.063	0.000
2:05:00 PM	0.2	0.061	0.000
2:06:00 PM	0.2	0.059	0.000
2:07:00 PM	0.2	0.06	0.000
2:08:00 PM	0.2	0.057	0.000
2:09:00 PM	0.2	0.057	0.000
2:10:00 PM	0.2	0.056	0.000
2:11:00 PM	0.2	0.054	0.000
2:12:00 PM	0.2	0.053	0.000
2:13:00 PM	0.2	0.077	0.000
2:14:00 PM	0.2	0.06	0.000
2:15:00 PM	0.2	0.053	0.000
2:16:00 PM	0.2	0.053	0.000
2:17:00 PM	0.2	0.052	0.000
2:18:00 PM	0.2	0.052	0.000
2:19:00 PM	0.2	0.051	0.000
2:20:00 PM	0.2	0.050	0.000
2:21:00 PM	0.2	0.051	0.000
2:22:00 PM	0.2	0.051	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:45:00 AM	0.0		0.000
9:46:00 AM	0.0	0.097	0.000
9:47:00 AM	0.0	0.087	0.000
9:48:00 AM	0.0	0.088	0.000
9:49:00 AM	0.0	0.083	0.000
9:50:00 AM	0.0	0.084	0.000
9:51:00 AM	0.0	0.086	0.000
9:52:00 AM	0.0	0.084	0.000
9:53:00 AM	0.0	0.085	0.000
9:54:00 AM	0.0	0.084	0.000
9:55:00 AM	0.0	0.085	0.000
9:56:00 AM	0.0	0.085	0.000
9:57:00 AM	0.0	0.084	0.000
9:58:00 AM	0.0	0.082	0.000
9:59:00 AM	0.0	0.083	0.000
10:00:00 AM	0.0	0.083	0.000
10:01:00 AM	0.0	0.085	0.000
10:02:00 AM	0.0	0.085	0.000
10:03:00 AM	0.0	0.086	0.000
10:04:00 AM	0.1	0.087	0.000
10:05:00 AM	0.1	0.083	0.000
10:06:00 AM	0.1	0.083	0.000
10:07:00 AM	0.1	0.083	0.000
10:08:00 AM	0.1	0.086	0.000
10:09:00 AM	0.1	0.086	0.000
10:10:00 AM	0.1	0.086	0.000
10:11:00 AM	0.1	0.084	0.000
10:12:00 AM	0.5	0.089	0.000
10:13:00 AM	0.3	0.087	0.000
10:14:00 AM	0.4	0.088	0.000
10:15:00 AM	0.2	0.088	0.000
10:16:00 AM	0.1	0.087	0.000
10:17:00 AM	0.1	0.086	0.000
10:18:00 AM	0.1	0.087	0.000
10:19:00 AM	0.1	0.086	0.000
10:20:00 AM	0.1	0.084	0.000
10:21:00 AM	0.1	0.083	0.000
10:22:00 AM	0.1	0.083	0.000
10:23:00 AM	0.1	0.087	0.000
10:24:00 AM	0.1	0.086	0.000
10:25:00 AM	0.1	0.087	0.000
10:26:00 AM	0.1	0.091	0.000
10:27:00 AM	0.1	0.086	0.000
10:28:00 AM	0.1	0.096	0.000
10:29:00 AM	0.1	0.089	0.000
10:30:00 AM	0.1	0.084	0.000
10:31:00 AM	0.1	0.082	0.000
10:32:00 AM	0.1	0.097	0.000
10:33:00 AM	0.1	0.089	0.000
10:34:00 AM	0.1	0.082	0.000
10:35:00 AM	0.1	0.078	0.000
10:36:00 AM	0.1	0.080	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:37:00 AM	0.1	0.082	0.000
10:38:00 AM	0.2	0.083	0.000
10:39:00 AM	0.2	0.084	0.000
10:40:00 AM	0.2	0.081	0.000
10:41:00 AM	0.1	0.082	0.000
10:42:00 AM	0.1	0.083	0.000
10:43:00 AM	0.2	0.083	0.000
10:44:00 AM	0.2	0.079	0.000
10:45:00 AM	0.2	0.075	0.000
10:46:00 AM	0.2	0.074	0.000
10:47:00 AM	0.2	0.075	0.000
10:48:00 AM	0.2	0.075	0.000
10:49:00 AM	0.2	0.076	0.000
10:50:00 AM	0.2	0.076	0.000
10:51:00 AM	0.2	0.072	0.000
10:52:00 AM	0.2	0.073	0.000
10:53:00 AM	0.2	0.073	0.000
10:54:00 AM	0.2	0.070	0.000
10:55:00 AM	0.2	0.073	0.000
10:56:00 AM	0.2	0.075	0.000
10:57:00 AM	0.2	0.073	0.000
10:58:00 AM	0.2	0.072	0.000
10:59:00 AM	0.2	0.074	0.000
11:00:00 AM	0.2	0.079	0.000
11:01:00 AM	0.2	0.074	0.000
11:02:00 AM	0.2	0.072	0.000
11:03:00 AM	0.2	0.076	0.000
11:04:00 AM	0.2	0.075	0.000
11:05:00 AM	0.2	0.072	0.000
11:06:00 AM	0.2	0.073	0.000
11:07:00 AM	0.2	0.074	0.000
11:08:00 AM	0.2	0.079	0.000
11:09:00 AM	0.2	0.076	0.000
11:10:00 AM	0.4	0.076	0.000
11:11:00 AM	0.2	0.078	0.000
11:12:00 AM	0.2	0.079	0.000
11:13:00 AM	0.2	0.075	0.000
11:14:00 AM	0.2	0.075	0.000
11:15:00 AM	0.2	0.076	0.000
11:16:00 AM	0.2	0.075	0.000
11:17:00 AM	0.2	0.075	0.000
11:18:00 AM	0.2	0.077	0.000
11:19:00 AM	0.2	0.078	0.000
11:20:00 AM	0.2	0.080	0.000
11:21:00 AM	0.2	0.077	0.000
11:22:00 AM	0.2	0.075	0.000
11:23:00 AM	0.2	0.078	0.000
11:24:00 AM	0.2	0.078	0.000
11:25:00 AM	0.2	0.081	0.000
11:26:00 AM	0.2	0.084	0.000
11:27:00 AM	0.2	0.079	0.000
11:28:00 AM	0.2	0.080	0.000
11:29:00 AM	0.2	0.084	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:30:00 AM	0.2	0.084	0.000
11:31:00 AM	0.2	0.084	0.000
11:32:00 AM	0.2	0.083	0.000
11:33:00 AM	0.2	0.081	0.000
11:34:00 AM	0.2	0.086	0.000
11:35:00 AM	0.2	0.085	0.000
11:36:00 AM	0.3	0.089	0.000
11:37:00 AM	0.3	0.085	0.000
11:38:00 AM	0.3	0.087	0.000
11:39:00 AM	0.2	0.086	0.000
11:40:00 AM	0.2	0.083	0.000
11:41:00 AM	0.2	0.084	0.000
11:42:00 AM	0.2	0.087	0.000
11:43:00 AM	0.2	0.085	0.000
11:44:00 AM	0.2	0.082	0.000
11:45:00 AM	0.3	0.084	0.000
11:46:00 AM	0.3	0.083	0.000
11:47:00 AM	0.3	0.085	0.000
11:48:00 AM	0.2	0.087	0.000
11:49:00 AM	0.2	0.084	0.000
11:50:00 AM	0.2	0.085	0.000
11:51:00 AM	0.2	0.085	0.000
11:52:00 AM	0.3	0.086	0.000
11:53:00 AM	0.2	0.096	0.000
11:54:00 AM	0.2	0.085	0.000
11:55:00 AM	0.2	0.085	0.000
11:56:00 AM	0.2	0.084	0.000
11:57:00 AM	0.3	0.088	0.000
11:58:00 AM	0.3	0.086	0.000
11:59:00 AM	0.3	0.089	0.000
12:00:00 PM	0.3	0.089	0.000
12:01:00 PM	0.3	0.104	0.000
12:02:00 PM	0.3	0.089	0.000
12:03:00 PM	0.3	0.090	0.000
12:04:00 PM	0.3	0.089	0.000
12:05:00 PM	0.3	0.089	0.000
12:06:00 PM	0.3	0.087	0.000
12:07:00 PM	0.3	0.078	0.000
12:08:00 PM	0.3	0.075	0.000
12:09:00 PM	0.3	0.081	0.000
12:10:00 PM	0.3	0.084	0.000
12:11:00 PM	0.2	0.077	0.000
12:12:00 PM	0.2	0.066	0.000
12:13:00 PM	0.2	0.066	0.000
12:14:00 PM	0.2	0.067	0.000
12:15:00 PM	0.2	0.062	0.000
12:16:00 PM	0.2	0.056	0.000
12:17:00 PM	0.2	0.058	0.000
12:18:00 PM	0.2	0.057	0.000
12:19:00 PM	0.2	0.062	0.000
12:20:00 PM	0.2	0.063	0.000
12:21:00 PM	0.2	0.061	0.000
12:22:00 PM	0.2	0.060	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:23:00 PM	0.2	0.062	0.000
12:24:00 PM	0.3	0.067	0.000
12:25:00 PM	0.3	0.067	0.000
12:26:00 PM	0.2	0.066	0.000
12:27:00 PM	0.3	0.067	0.000
12:28:00 PM	0.3	0.067	0.000
12:29:00 PM	0.3	0.068	0.000
12:30:00 PM	0.3	0.066	0.000
12:31:00 PM	0.3	0.066	0.000
12:32:00 PM	0.3	0.068	0.000
12:33:00 PM	0.3	0.070	0.000
12:34:00 PM	0.3	0.070	0.000
12:35:00 PM	0.3	0.070	0.000
12:36:00 PM	0.3	0.070	0.000
12:37:00 PM	0.3	0.071	0.000
12:38:00 PM	0.3	0.070	0.000
12:39:00 PM	0.3	0.070	0.000
12:40:00 PM	0.3	0.070	0.000
12:41:00 PM	0.3	0.071	0.000
12:42:00 PM	0.3	0.070	0.000
12:43:00 PM	0.3	0.068	0.000
12:44:00 PM	0.3	0.069	0.000
12:45:00 PM	0.3	0.069	0.000
12:46:00 PM	0.3	0.069	0.000
12:47:00 PM	0.3	0.070	0.000
12:48:00 PM	0.4	0.069	0.000
12:49:00 PM	0.3	0.069	0.000
12:50:00 PM	0.3	0.069	0.000
12:51:00 PM	0.3	0.071	0.000
12:52:00 PM	0.3	0.070	0.000
12:53:00 PM	0.3	0.071	0.000
12:54:00 PM	0.3	0.070	0.000
12:55:00 PM	0.3	0.070	0.000
12:56:00 PM	0.3	0.069	0.000
12:57:00 PM	0.3	0.070	0.000
12:58:00 PM	0.3	0.189	0.000
12:59:00 PM	0.3	0.074	0.000
1:00:00 PM	0.3	0.062	0.000
1:01:00 PM	0.3	0.059	0.000
1:02:00 PM	0.3	0.062	0.000
1:03:00 PM	0.3	0.093	0.000
1:04:00 PM	0.3	0.074	0.000
1:05:00 PM	0.3	0.069	0.000
1:06:00 PM	0.3	0.072	0.000
1:07:00 PM	0.3	0.070	0.000
1:08:00 PM	0.3	0.070	0.000
1:09:00 PM	0.3	0.070	0.000
1:10:00 PM	0.3	0.069	0.000
1:11:00 PM	0.3	0.070	0.000
1:12:00 PM	0.3	0.068	0.000
1:13:00 PM	0.3	0.069	0.000
1:14:00 PM	0.3	0.068	0.000
1:15:00 PM	0.3	0.067	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:16:00 PM	0.3	0.066	0.000
1:17:00 PM	0.3	0.067	0.000
1:18:00 PM	0.3	0.066	0.000
1:19:00 PM	0.3	0.067	0.000
1:20:00 PM	0.3	0.068	0.000
1:21:00 PM	0.3	0.066	0.000
1:22:00 PM	0.3	0.066	0.000
1:23:00 PM	0.3	0.067	0.000
1:24:00 PM	0.3	0.066	0.000
1:25:00 PM	0.3	0.070	0.000
1:26:00 PM	0.3	0.069	0.000
1:27:00 PM	0.3	0.069	0.000
1:28:00 PM	0.3	0.073	0.000
1:29:00 PM	0.3	0.077	0.000
1:30:00 PM	0.3	0.073	0.000
1:31:00 PM	0.3	0.071	0.000
1:32:00 PM	0.3	0.068	0.000
1:33:00 PM	0.3	0.068	0.000
1:34:00 PM	0.3	0.068	0.000
1:35:00 PM	0.3	0.069	0.000
1:36:00 PM	0.3	0.069	0.000
1:37:00 PM	0.3	0.069	0.000
1:38:00 PM	0.3	0.068	0.000
1:39:00 PM	0.5	0.068	0.000
1:40:00 PM	0.3	0.064	0.000
1:41:00 PM	0.3	0.063	0.000
1:42:00 PM	0.3	0.064	0.000
1:43:00 PM	0.3	0.069	0.000
1:44:00 PM	0.5	0.068	0.000
1:45:00 PM	0.3	0.069	0.000
1:46:00 PM	0.3	0.070	0.000
1:47:00 PM	0.3	0.072	0.000
1:48:00 PM	0.3	0.071	0.000
1:49:00 PM	0.3	0.070	0.000
1:50:00 PM	0.3	0.070	0.000
1:51:00 PM	0.4	0.070	0.000
1:52:00 PM	0.3	0.070	0.000
1:53:00 PM	0.3	0.070	0.000
1:54:00 PM	0.3	0.070	0.000
1:55:00 PM	0.3	0.069	0.000
1:56:00 PM	0.5	0.070	0.000
1:57:00 PM	0.3	0.070	0.000
1:58:00 PM	0.4	0.071	0.000
1:59:00 PM	0.3	0.075	0.000
2:00:00 PM	0.3	0.070	0.000
2:01:00 PM	0.3	0.070	0.000
2:02:00 PM	0.3	0.070	0.000
2:03:00 PM	0.3	0.072	0.000
2:04:00 PM	0.3	0.071	0.000
2:05:00 PM	0.3	0.070	0.000
2:06:00 PM	0.3	0.071	0.000
2:07:00 PM	0.3	0.071	0.000
2:08:00 PM	0.3	0.071	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:09:00 PM	0.3	0.07	0.000
2:10:00 PM	0.3	0.071	0.000
2:11:00 PM	0.3	0.069	0.000
2:12:00 PM	0.3	0.068	0.000
2:13:00 PM	0.3	0.068	0.000
2:14:00 PM	0.3	0.067	0.000
2:15:00 PM	0.3	0.067	0.000
2:16:00 PM	0.3	0.067	0.000
2:17:00 PM	0.3	0.067	0.000
2:18:00 PM	0.3	0.066	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 8 mph	Date:	1/13/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco starting excavation on area #4. Aarco excavating soils to a depth of four (4) feet bgs. Preferred is field screening all excavated soils for the presence of VOC's and Mercury Vapor. All excavated soils are being placed on the stockpile. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.063	0.000	0.2	0.078	0.000
Down Wind	0.2	0.084	0.000	0.3	0.136	0.000
Work Zone	0.2	0.062	0.000	0.2	0.078	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will contiune excavating area #4.



View of excavation area.



Aarco repainting excavation areas.

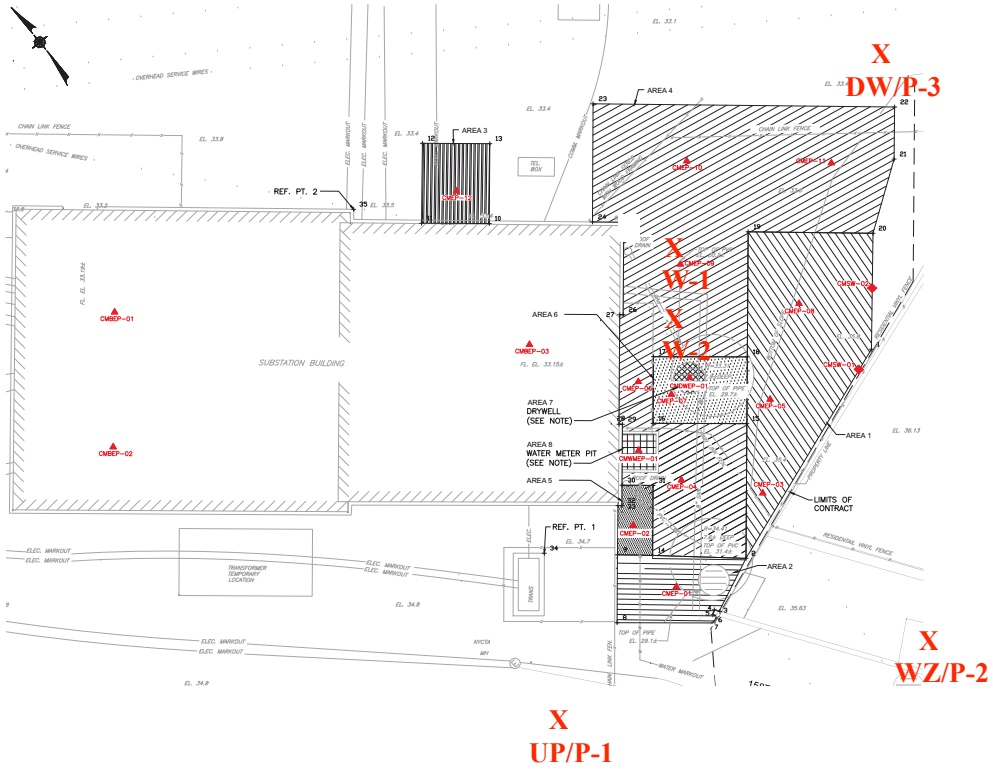


Preferred conducting daily disinfection of common surfaces.



Aarco installing digging box in next excavation area.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:47:00 AM	0.0	0.1	0.000
9:48:00 AM	0.0	0.080	0.000
9:49:00 AM	0.0	0.079	0.000
9:50:00 AM	0.0	0.080	0.000
9:51:00 AM	0.0	0.078	0.000
9:52:00 AM	0.0	0.080	0.000
9:53:00 AM	0.0	0.079	0.000
9:54:00 AM	0.0	0.079	0.000
9:55:00 AM	0.0	0.078	0.000
9:56:00 AM	0.0	0.078	0.000
9:57:00 AM	0.0	0.078	0.000
9:58:00 AM	0.0	0.078	0.000
9:59:00 AM	0.0	0.077	0.000
10:00:00 AM	0.0	0.076	0.000
10:01:00 AM	0.0	0.075	0.000
10:02:00 AM	0.0	0.075	0.000
10:03:00 AM	0.0	0.075	0.000
10:04:00 AM	0.0	0.074	0.000
10:05:00 AM	0.0	0.073	0.000
10:06:00 AM	0.0	0.073	0.000
10:07:00 AM	0.0	0.079	0.000
10:08:00 AM	0.0	0.084	0.000
10:09:00 AM	0.0	0.077	0.000
10:10:00 AM	0.0	0.072	0.000
10:11:00 AM	0.0	0.071	0.000
10:12:00 AM	0.0	0.071	0.000
10:13:00 AM	0.0	0.069	0.000
10:14:00 AM	0.0	0.068	0.000
10:15:00 AM	0.0	0.070	0.000
10:16:00 AM	0.0	0.088	0.000
10:17:00 AM	0.0	0.068	0.000
10:18:00 AM	0.0	0.067	0.000
10:19:00 AM	0.0	0.077	0.000
10:20:00 AM	0.0	0.064	0.000
10:21:00 AM	0.0	0.072	0.000
10:22:00 AM	0.0	0.099	0.000
10:23:00 AM	0.0	0.071	0.000
10:24:00 AM	0.0	0.069	0.000
10:25:00 AM	0.0	0.078	0.000
10:26:00 AM	0.0	0.066	0.000
10:27:00 AM	0.0	0.064	0.000
10:28:00 AM	0.0	0.064	0.000
10:29:00 AM	0.0	0.065	0.000
10:30:00 AM	0.0	0.069	0.000
10:31:00 AM	0.0	0.082	0.000
10:32:00 AM	0.0	0.065	0.000
10:33:00 AM	0.0	0.062	0.000
10:34:00 AM	0.0	0.066	0.000
10:35:00 AM	0.0	0.080	0.000
10:36:00 AM	0.0	0.066	0.000
10:37:00 AM	0.0	0.061	0.000
10:38:00 AM	0.0	0.084	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:39:00 AM	0.0	0.064	0.000
10:40:00 AM	0.0	0.056	0.000
10:41:00 AM	0.0	0.057	0.000
10:42:00 AM	0.0	0.056	0.000
10:43:00 AM	0.1	0.060	0.000
10:44:00 AM	0.0	0.073	0.000
10:45:00 AM	0.0	0.057	0.000
10:46:00 AM	0.0	0.055	0.000
10:47:00 AM	0.0	0.055	0.000
10:48:00 AM	0.0	0.057	0.000
10:49:00 AM	0.0	0.062	0.000
10:50:00 AM	0.0	0.064	0.000
10:51:00 AM	0.0	0.059	0.000
10:52:00 AM	0.0	0.058	0.000
10:53:00 AM	0.0	0.059	0.000
10:54:00 AM	0.0	0.060	0.000
10:55:00 AM	0.0	0.062	0.000
10:56:00 AM	0.0	0.059	0.000
10:57:00 AM	0.0	0.059	0.000
10:58:00 AM	0.0	0.058	0.000
10:59:00 AM	0.0	0.067	0.000
11:00:00 AM	0.0	0.061	0.000
11:01:00 AM	0.0	0.059	0.000
11:02:00 AM	0.1	0.059	0.000
11:03:00 AM	0.0	0.058	0.000
11:04:00 AM	0.0	0.058	0.000
11:05:00 AM	0.1	0.060	0.000
11:06:00 AM	0.1	0.062	0.000
11:07:00 AM	0.0	0.059	0.000
11:08:00 AM	0.1	0.073	0.000
11:09:00 AM	0.1	0.063	0.000
11:10:00 AM	0.1	0.061	0.000
11:11:00 AM	0.1	0.070	0.000
11:12:00 AM	0.1	0.069	0.000
11:13:00 AM	0.1	0.058	0.000
11:14:00 AM	0.1	0.057	0.000
11:15:00 AM	0.1	0.061	0.000
11:16:00 AM	0.1	0.060	0.000
11:17:00 AM	0.1	0.058	0.000
11:18:00 AM	0.1	0.064	0.000
11:19:00 AM	0.1	0.061	0.000
11:20:00 AM	0.1	0.059	0.000
11:21:00 AM	0.1	0.059	0.000
11:22:00 AM	0.1	0.069	0.000
11:23:00 AM	0.1	0.065	0.000
11:24:00 AM	0.1	0.062	0.000
11:25:00 AM	0.1	0.056	0.000
11:26:00 AM	0.1	0.068	0.000
11:27:00 AM	0.1	0.057	0.000
11:28:00 AM	0.1	0.058	0.000
11:29:00 AM	0.1	0.058	0.000
11:30:00 AM	0.1	0.057	0.000
11:31:00 AM	0.1	0.056	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:32:00 AM	0.1	0.055	0.000
11:33:00 AM	0.1	0.060	0.000
11:34:00 AM	0.1	0.105	0.000
11:35:00 AM	0.1	0.063	0.000
11:36:00 AM	0.1	0.058	0.000
11:37:00 AM	0.1	0.057	0.000
11:38:00 AM	0.1	0.057	0.000
11:39:00 AM	0.1	0.077	0.000
11:40:00 AM	0.1	0.057	0.000
11:41:00 AM	0.1	0.058	0.000
11:42:00 AM	0.1	0.057	0.000
11:43:00 AM	0.1	0.057	0.000
11:44:00 AM	0.1	0.057	0.000
11:45:00 AM	0.1	0.057	0.000
11:46:00 AM	0.1	0.062	0.000
11:47:00 AM	0.1	0.060	0.000
11:48:00 AM	0.1	0.058	0.000
11:49:00 AM	0.1	0.059	0.000
11:50:00 AM	0.1	0.072	0.000
11:51:00 AM	0.1	0.063	0.000
11:52:00 AM	0.1	0.059	0.000
11:53:00 AM	0.1	0.055	0.000
11:54:00 AM	0.1	0.056	0.000
11:55:00 AM	0.1	0.057	0.000
11:56:00 AM	0.1	0.057	0.000
11:57:00 AM	0.1	0.058	0.000
11:58:00 AM	0.1	0.057	0.000
11:59:00 AM	0.1	0.056	0.000
12:00:00 PM	0.1	0.057	0.000
12:01:00 PM	0.1	0.054	0.000
12:02:00 PM	0.1	0.056	0.000
12:03:00 PM	0.1	0.055	0.000
12:04:00 PM	0.1	0.055	0.000
12:05:00 PM	0.1	0.056	0.000
12:06:00 PM	0.1	0.056	0.000
12:07:00 PM	0.1	0.056	0.000
12:08:00 PM	0.1	0.057	0.000
12:09:00 PM	0.1	0.064	0.000
12:10:00 PM	0.1	0.060	0.000
12:11:00 PM	0.1	0.056	0.000
12:12:00 PM	0.1	0.056	0.000
12:13:00 PM	0.1	0.055	0.000
12:14:00 PM	0.1	0.054	0.000
12:15:00 PM	0.1	0.054	0.000
12:16:00 PM	0.1	0.055	0.000
12:17:00 PM	0.1	0.055	0.000
12:18:00 PM	0.1	0.056	0.000
12:19:00 PM	0.1	0.056	0.000
12:20:00 PM	0.1	0.055	0.000
12:21:00 PM	0.1	0.056	0.000
12:22:00 PM	0.1	0.056	0.000
12:23:00 PM	0.1	0.056	0.000
12:24:00 PM	0.1	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:25:00 PM	0.1	0.057	0.000
12:26:00 PM	0.1	0.056	0.000
12:27:00 PM	0.1	0.056	0.000
12:28:00 PM	0.1	0.056	0.000
12:29:00 PM	0.1	0.056	0.000
12:30:00 PM	0.1	0.057	0.000
12:31:00 PM	0.1	0.057	0.000
12:32:00 PM	0.1	0.056	0.000
12:33:00 PM	0.1	0.055	0.000
12:34:00 PM	0.1	0.055	0.000
12:35:00 PM	0.1	0.055	0.000
12:36:00 PM	0.1	0.054	0.000
12:37:00 PM	0.1	0.056	0.000
12:38:00 PM	0.1	0.055	0.000
12:39:00 PM	0.1	0.056	0.000
12:40:00 PM	0.1	0.056	0.000
12:41:00 PM	0.1	0.056	0.000
12:42:00 PM	0.1	0.055	0.000
12:43:00 PM	0.1	0.055	0.000
12:44:00 PM	0.1	0.055	0.000
12:45:00 PM	0.1	0.056	0.000
12:46:00 PM	0.1	0.055	0.000
12:47:00 PM	0.1	0.054	0.000
12:48:00 PM	0.1	0.055	0.000
12:49:00 PM	0.1	0.056	0.000
12:50:00 PM	0.1	0.056	0.000
12:51:00 PM	0.1	0.057	0.000
12:52:00 PM	0.1	0.056	0.000
12:53:00 PM	0.1	0.056	0.000
12:54:00 PM	0.1	0.057	0.000
12:55:00 PM	0.1	0.056	0.000
12:56:00 PM	0.1	0.057	0.000
12:57:00 PM	0.1	0.056	0.000
12:58:00 PM	0.1	0.057	0.000
12:59:00 PM	0.1	0.057	0.000
1:00:00 PM	0.1	0.061	0.000
1:01:00 PM	0.1	0.058	0.000
1:02:00 PM	0.1	0.060	0.000
1:03:00 PM	0.1	0.058	0.000
1:04:00 PM	0.1	0.058	0.000
1:05:00 PM	0.1	0.058	0.000
1:06:00 PM	0.1	0.057	0.000
1:07:00 PM	0.1	0.058	0.000
1:08:00 PM	0.1	0.059	0.000
1:09:00 PM	0.1	0.059	0.000
1:10:00 PM	0.1	0.058	0.000
1:11:00 PM	0.1	0.059	0.000
1:12:00 PM	0.1	0.059	0.000
1:13:00 PM	0.1	0.060	0.000
1:14:00 PM	0.2	0.060	0.000
1:15:00 PM	0.1	0.062	0.000
1:16:00 PM	0.1	0.061	0.000
1:17:00 PM	0.1	0.061	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:18:00 PM	0.1	0.061	0.000
1:19:00 PM	0.1	0.062	0.000
1:20:00 PM	0.1	0.062	0.000
1:21:00 PM	0.1	0.062	0.000
1:22:00 PM	0.1	0.062	0.000
1:23:00 PM	0.2	0.062	0.000
1:24:00 PM	0.1	0.064	0.000
1:25:00 PM	0.2	0.065	0.000
1:26:00 PM	0.2	0.065	0.000
1:27:00 PM	0.1	0.065	0.000
1:28:00 PM	0.2	0.065	0.000
1:29:00 PM	0.1	0.065	0.000
1:30:00 PM	0.2	0.066	0.000
1:31:00 PM	0.1	0.067	0.000
1:32:00 PM	0.2	0.067	0.000
1:33:00 PM	0.2	0.067	0.000
1:34:00 PM	0.2	0.096	0.000
1:35:00 PM	0.2	0.104	0.000
1:36:00 PM	0.1	0.073	0.000
1:37:00 PM	0.1	0.067	0.000
1:38:00 PM	0.1	0.068	0.000
1:39:00 PM	0.1	0.066	0.000
1:40:00 PM	0.1	0.068	0.000
1:41:00 PM	0.1	0.066	0.000
1:42:00 PM	0.2	0.066	0.000
1:43:00 PM	0.2	0.079	0.000
1:44:00 PM	0.1	0.076	0.000
1:45:00 PM	0.1	0.067	0.000
1:46:00 PM	0.2	0.066	0.000
1:47:00 PM	0.1	0.066	0.000
1:48:00 PM	0.2	0.067	0.000
1:49:00 PM	0.2	0.065	0.000
1:50:00 PM	0.2	0.064	0.000
1:51:00 PM	0.2	0.063	0.000
1:52:00 PM	0.2	0.063	0.000
1:53:00 PM	0.2	0.062	0.000
1:54:00 PM	0.2	0.063	0.000
1:55:00 PM	0.2	0.062	0.000
1:56:00 PM	0.2	0.063	0.000
1:57:00 PM	0.2	0.064	0.000
1:58:00 PM	0.2	0.063	0.000
1:59:00 PM	0.2	0.063	0.000
2:00:00 PM	0.2	0.063	0.000
2:01:00 PM	0.2	0.063	0.000
2:02:00 PM	0.2	0.063	0.000
2:03:00 PM	0.2	0.063	0.000
2:04:00 PM	0.2	0.065	0.000
2:05:00 PM	0.2	0.064	0.000
2:06:00 PM	0.2	0.064	0.000
2:07:00 PM	0.2	0.063	0.000
2:08:00 PM	0.2	0.064	0.000
2:09:00 PM	0.2	0.065	0.000
2:10:00 PM	0.2	0.063	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:11:00 PM	0.2	0.063	0.000
2:12:00 PM	0.2	0.063	0.000
2:13:00 PM	0.2	0.063	0.000
2:14:00 PM	0.2	0.062	0.000
2:15:00 PM	0.2	0.063	0.000
2:16:00 PM	0.2	0.064	0.000
2:17:00 PM	0.2	0.063	0.000
2:18:00 PM	0.2	0.066	0.000
2:19:00 PM	0.2	0.067	0.000
2:20:00 PM	0.2	0.065	0.000
2:21:00 PM	0.2	0.063	0.000
2:22:00 PM	0.2	0.064	0.000
2:23:00 PM	0.2	0.062	0.000
2:24:00 PM	0.2	0.063	0.000
2:25:00 PM	0.2	0.062	0.000
2:26:00 PM	0.2	0.062	0.000
2:27:00 PM	0.2	0.066	0.000
2:28:00 PM	0.2	0.068	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:55:00 AM	0.0		0.000
9:56:00 AM	0.0		0.000
9:57:00 AM	0.0	0.107	0.000
9:58:00 AM	0.1	0.084	0.000
9:59:00 AM	0.1	0.080	0.000
10:00:00 AM	0.1	0.081	0.000
10:01:00 AM	0.1	0.079	0.000
10:02:00 AM	0.1	0.075	0.000
10:03:00 AM	0.1	0.076	0.000
10:04:00 AM	0.1	0.075	0.000
10:05:00 AM	0.1	0.075	0.000
10:06:00 AM	0.1	0.074	0.000
10:07:00 AM	0.1	0.073	0.000
10:08:00 AM	0.1	0.075	0.000
10:09:00 AM	0.1	0.072	0.000
10:10:00 AM	0.1	0.071	0.000
10:11:00 AM	0.1	0.070	0.000
10:12:00 AM	0.1	0.071	0.000
10:13:00 AM	0.1	0.070	0.000
10:14:00 AM	0.1	0.069	0.000
10:15:00 AM	0.1	0.069	0.000
10:16:00 AM	0.1	0.078	0.000
10:17:00 AM	0.1	0.067	0.000
10:18:00 AM	0.1	0.065	0.000
10:19:00 AM	0.1	0.068	0.000
10:20:00 AM	0.1	0.063	0.000
10:21:00 AM	0.1	0.064	0.000
10:22:00 AM	0.1	0.065	0.000
10:23:00 AM	0.1	0.065	0.000
10:24:00 AM	0.1	0.064	0.000
10:25:00 AM	0.1	0.064	0.000
10:26:00 AM	0.1	0.064	0.000
10:27:00 AM	0.1	0.063	0.000
10:28:00 AM	0.2	0.062	0.000
10:29:00 AM	0.2	0.064	0.000
10:30:00 AM	0.2	0.065	0.000
10:31:00 AM	0.2	0.068	0.000
10:32:00 AM	0.2	0.063	0.000
10:33:00 AM	0.2	0.062	0.000
10:34:00 AM	0.2	0.062	0.000
10:35:00 AM	0.2	0.064	0.000
10:36:00 AM	0.2	0.061	0.000
10:37:00 AM	0.2	0.060	0.000
10:38:00 AM	0.2	0.059	0.000
10:39:00 AM	0.2	0.057	0.000
10:40:00 AM	0.2	0.056	0.000
10:41:00 AM	0.2	0.057	0.000
10:42:00 AM	0.2	0.057	0.000
10:43:00 AM	0.2	0.058	0.000
10:44:00 AM	0.2	0.057	0.000
10:45:00 AM	0.2	0.056	0.000
10:46:00 AM	0.2	0.055	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:47:00 AM	0.2	0.054	0.000
10:48:00 AM	0.2	0.054	0.000
10:49:00 AM	0.2	0.056	0.000
10:50:00 AM	0.2	0.060	0.000
10:51:00 AM	0.2	0.059	0.000
10:52:00 AM	0.2	0.058	0.000
10:53:00 AM	0.2	0.059	0.000
10:54:00 AM	0.2	0.058	0.000
10:55:00 AM	0.2	0.059	0.000
10:56:00 AM	0.2	0.058	0.000
10:57:00 AM	0.2	0.058	0.000
10:58:00 AM	0.2	0.058	0.000
10:59:00 AM	0.2	0.058	0.000
11:00:00 AM	0.2	0.059	0.000
11:01:00 AM	0.2	0.058	0.000
11:02:00 AM	0.2	0.058	0.000
11:03:00 AM	0.2	0.059	0.000
11:04:00 AM	0.2	0.060	0.000
11:05:00 AM	0.2	0.059	0.000
11:06:00 AM	0.2	0.058	0.000
11:07:00 AM	0.2	0.060	0.000
11:08:00 AM	0.2	0.061	0.000
11:09:00 AM	0.2	0.062	0.000
11:10:00 AM	0.2	0.061	0.000
11:11:00 AM	0.2	0.061	0.000
11:12:00 AM	0.2	0.062	0.000
11:13:00 AM	0.2	0.061	0.000
11:14:00 AM	0.2	0.063	0.000
11:15:00 AM	0.2	0.059	0.000
11:16:00 AM	0.3	0.059	0.000
11:17:00 AM	0.2	0.057	0.000
11:18:00 AM	0.2	0.057	0.000
11:19:00 AM	0.2	0.058	0.000
11:20:00 AM	0.2	0.058	0.000
11:21:00 AM	0.2	0.058	0.000
11:22:00 AM	0.2	0.057	0.000
11:23:00 AM	0.2	0.060	0.000
11:24:00 AM	0.2	0.058	0.000
11:25:00 AM	0.2	0.057	0.000
11:26:00 AM	0.3	0.059	0.000
11:27:00 AM	0.4	0.057	0.000
11:28:00 AM	0.2	0.058	0.000
11:29:00 AM	0.2	0.057	0.000
11:30:00 AM	0.2	0.056	0.000
11:31:00 AM	0.3	0.056	0.000
11:32:00 AM	0.2	0.056	0.000
11:33:00 AM	0.2	0.057	0.000
11:34:00 AM	0.2	0.055	0.000
11:35:00 AM	0.3	0.056	0.000
11:36:00 AM	0.2	0.057	0.000
11:37:00 AM	0.2	0.058	0.000
11:38:00 AM	0.2	0.058	0.000
11:39:00 AM	0.2	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:40:00 AM	0.2	0.058	0.000
11:41:00 AM	0.2	0.059	0.000
11:42:00 AM	0.2	0.059	0.000
11:43:00 AM	0.2	0.057	0.000
11:44:00 AM	0.2	0.058	0.000
11:45:00 AM	0.2	0.057	0.000
11:46:00 AM	0.2	0.057	0.000
11:47:00 AM	0.2	0.056	0.000
11:48:00 AM	0.2	0.058	0.000
11:49:00 AM	0.2	0.059	0.000
11:50:00 AM	0.2	0.057	0.000
11:51:00 AM	0.2	0.069	0.000
11:52:00 AM	0.2	0.056	0.000
11:53:00 AM	0.2	0.054	0.000
11:54:00 AM	0.2	0.056	0.000
11:55:00 AM	0.2	0.057	0.000
11:56:00 AM	0.2	0.058	0.000
11:57:00 AM	0.2	0.067	0.000
11:58:00 AM	0.2	0.060	0.000
11:59:00 AM	0.2	0.057	0.000
12:00:00 PM	0.2	0.058	0.000
12:01:00 PM	0.2	0.061	0.000
12:02:00 PM	0.2	0.056	0.000
12:03:00 PM	0.2	0.056	0.000
12:04:00 PM	0.2	0.055	0.000
12:05:00 PM	0.2	0.054	0.000
12:06:00 PM	0.2	0.056	0.000
12:07:00 PM	0.2	0.057	0.000
12:08:00 PM	0.2	0.058	0.000
12:09:00 PM	0.2	0.057	0.000
12:10:00 PM	0.2	0.056	0.000
12:11:00 PM	0.2	0.057	0.000
12:12:00 PM	0.2	0.055	0.000
12:13:00 PM	0.2	0.053	0.000
12:14:00 PM	0.2	0.055	0.000
12:15:00 PM	0.2	0.053	0.000
12:16:00 PM	0.2	0.054	0.000
12:17:00 PM	0.2	0.055	0.000
12:18:00 PM	0.2	0.057	0.000
12:19:00 PM	0.2	0.057	0.000
12:20:00 PM	0.2	0.056	0.000
12:21:00 PM	0.2	0.056	0.000
12:22:00 PM	0.2	0.058	0.000
12:23:00 PM	0.2	0.057	0.000
12:24:00 PM	0.2	0.060	0.000
12:25:00 PM	0.2	0.059	0.000
12:26:00 PM	0.2	0.059	0.000
12:27:00 PM	0.2	0.058	0.000
12:28:00 PM	0.2	0.056	0.000
12:29:00 PM	0.2	0.057	0.000
12:30:00 PM	0.2	0.057	0.000
12:31:00 PM	0.2	0.056	0.000
12:32:00 PM	0.2	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:33:00 PM	0.2	0.057	0.000
12:34:00 PM	0.2	0.055	0.000
12:35:00 PM	0.2	0.057	0.000
12:36:00 PM	0.2	0.056	0.000
12:37:00 PM	0.2	0.056	0.000
12:38:00 PM	0.2	0.058	0.000
12:39:00 PM	0.2	0.057	0.000
12:40:00 PM	0.2	0.058	0.000
12:41:00 PM	0.2	0.058	0.000
12:42:00 PM	0.2	0.057	0.000
12:43:00 PM	0.2	0.056	0.000
12:44:00 PM	0.2	0.056	0.000
12:45:00 PM	0.2	0.057	0.000
12:46:00 PM	0.2	0.055	0.000
12:47:00 PM	0.2	0.055	0.000
12:48:00 PM	0.2	0.056	0.000
12:49:00 PM	0.2	0.058	0.000
12:50:00 PM	0.2	0.057	0.000
12:51:00 PM	0.2	0.058	0.000
12:52:00 PM	0.2	0.058	0.000
12:53:00 PM	0.2	0.057	0.000
12:54:00 PM	0.2	0.058	0.000
12:55:00 PM	0.2	0.060	0.000
12:56:00 PM	0.2	0.058	0.000
12:57:00 PM	0.2	0.059	0.000
12:58:00 PM	0.2	0.059	0.000
12:59:00 PM	0.2	0.059	0.000
1:00:00 PM	0.2	0.060	0.000
1:01:00 PM	0.2	0.059	0.000
1:02:00 PM	0.2	0.057	0.000
1:03:00 PM	0.2	0.058	0.000
1:04:00 PM	0.2	0.058	0.000
1:05:00 PM	0.2	0.058	0.000
1:06:00 PM	0.2	0.058	0.000
1:07:00 PM	0.2	0.059	0.000
1:08:00 PM	0.2	0.060	0.000
1:09:00 PM	0.2	0.060	0.000
1:10:00 PM	0.2	0.060	0.000
1:11:00 PM	0.2	0.060	0.000
1:12:00 PM	0.2	0.061	0.000
1:13:00 PM	0.2	0.062	0.000
1:14:00 PM	0.2	0.060	0.000
1:15:00 PM	0.2	0.062	0.000
1:16:00 PM	0.2	0.063	0.000
1:17:00 PM	0.2	0.064	0.000
1:18:00 PM	0.2	0.063	0.000
1:19:00 PM	0.2	0.064	0.000
1:20:00 PM	0.2	0.063	0.000
1:21:00 PM	0.2	0.062	0.000
1:22:00 PM	0.2	0.062	0.000
1:23:00 PM	0.2	0.062	0.000
1:24:00 PM	0.2	0.062	0.000
1:25:00 PM	0.2	0.076	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:26:00 PM	0.2	0.066	0.000
1:27:00 PM	0.2	0.066	0.000
1:28:00 PM	0.2	0.076	0.000
1:29:00 PM	0.2	0.065	0.000
1:30:00 PM	0.2	0.065	0.000
1:31:00 PM	0.2	0.065	0.000
1:32:00 PM	0.2	0.066	0.000
1:33:00 PM	0.2	0.064	0.000
1:34:00 PM	0.2	0.075	0.000
1:35:00 PM	0.2	0.073	0.000
1:36:00 PM	0.2	0.070	0.000
1:37:00 PM	0.2	0.067	0.000
1:38:00 PM	0.2	0.067	0.000
1:39:00 PM	0.2	0.068	0.000
1:40:00 PM	0.2	0.068	0.000
1:41:00 PM	0.2	0.068	0.000
1:42:00 PM	0.2	0.069	0.000
1:43:00 PM	0.2	0.070	0.000
1:44:00 PM	0.2	0.069	0.000
1:45:00 PM	0.2	0.068	0.000
1:46:00 PM	0.2	0.066	0.000
1:47:00 PM	0.2	0.065	0.000
1:48:00 PM	0.2	0.068	0.000
1:49:00 PM	0.2	0.071	0.000
1:50:00 PM	0.2	0.063	0.000
1:51:00 PM	0.2	0.063	0.000
1:52:00 PM	0.2	0.062	0.000
1:53:00 PM	0.2	0.069	0.000
1:54:00 PM	0.2	0.066	0.000
1:55:00 PM	0.2	0.063	0.000
1:56:00 PM	0.2	0.062	0.000
1:57:00 PM	0.2	0.063	0.000
1:58:00 PM	0.2	0.062	0.000
1:59:00 PM	0.2	0.062	0.000
2:00:00 PM	0.3	0.064	0.000
2:01:00 PM	0.2	0.068	0.000
2:02:00 PM	0.2	0.066	0.000
2:03:00 PM	0.2	0.066	0.000
2:04:00 PM	0.2	0.066	0.000
2:05:00 PM	0.2	0.065	0.000
2:06:00 PM	0.2	0.066	0.000
2:07:00 PM	0.2	0.065	0.000
2:08:00 PM	0.2	0.067	0.000
2:09:00 PM	0.2	0.066	0.000
2:10:00 PM	0.2	0.065	0.000
2:11:00 PM	0.2	0.064	0.000
2:12:00 PM	0.2	0.067	0.000
2:13:00 PM	0.2	0.065	0.000
2:14:00 PM	0.2	0.064	0.000
2:15:00 PM	0.2	0.063	0.000
2:16:00 PM	0.2	0.064	0.000
2:17:00 PM	0.2	0.065	0.000
2:18:00 PM	0.2	0.064	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:19:00 PM	0.2	0.064	0.000
2:20:00 PM	0.2	0.066	0.000
2:21:00 PM	0.2	0.065	0.000
2:22:00 PM	0.2	0.063	0.000
2:23:00 PM	0.2	0.062	0.000
2:24:00 PM	0.2	0.062	0.000
2:25:00 PM	0.2	0.062	0.000
2:26:00 PM	0.2	0.061	0.000
2:27:00 PM	0.2	0.074	0.000
2:28:00 PM	0.2	0.068	0.000
2:29:00 PM	0.2	0.065	0.000
2:30:00 PM	0.2	0.064	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:06:00 AM	0.2	0.264	0.000
10:07:00 AM	0.4	0.164	0.000
10:08:00 AM	0.4	0.319	0.000
10:09:00 AM	0.1	0.143	0.000
10:10:00 AM	0.1	0.107	0.000
10:11:00 AM	0.1	0.104	0.000
10:12:00 AM	0.1	0.126	0.000
10:13:00 AM	0.1	0.094	0.000
10:14:00 AM	0.2	0.168	0.000
10:15:00 AM	0.1	0.148	0.000
10:16:00 AM	0.1	0.119	0.000
10:17:00 AM	0.1	0.145	0.000
10:18:00 AM	0.1	0.106	0.000
10:19:00 AM	0.1	0.097	0.000
10:20:00 AM	0.1	0.100	0.000
10:21:00 AM	0.1	0.095	0.000
10:22:00 AM	0.1	0.100	0.000
10:23:00 AM	0.1	0.093	0.000
10:24:00 AM	0.1	0.094	0.000
10:25:00 AM	0.1	0.085	0.000
10:26:00 AM	0.1	0.087	0.000
10:27:00 AM	0.1	0.085	0.000
10:28:00 AM	0.1	0.096	0.000
10:29:00 AM	0.1	0.087	0.000
10:30:00 AM	0.1	0.087	0.000
10:31:00 AM	0.1	0.086	0.000
10:32:00 AM	0.1	0.098	0.000
10:33:00 AM	0.1	0.090	0.000
10:34:00 AM	0.1	0.087	0.000
10:35:00 AM	0.1	0.094	0.000
10:36:00 AM	0.1	0.091	0.000
10:37:00 AM	0.1	0.103	0.000
10:38:00 AM	0.1	0.092	0.000
10:39:00 AM	0.1	0.104	0.000
10:40:00 AM	0.2	0.080	0.000
10:41:00 AM	0.1	0.087	0.000
10:42:00 AM	0.1	0.077	0.000
10:43:00 AM	0.1	0.089	0.000
10:44:00 AM	0.1	0.080	0.000
10:45:00 AM	0.1	0.100	0.000
10:46:00 AM	0.1	0.077	0.000
10:47:00 AM	0.2	0.080	0.000
10:48:00 AM	0.1	0.086	0.000
10:49:00 AM	0.1	0.077	0.000
10:50:00 AM	0.1	0.077	0.000
10:51:00 AM	0.1	0.077	0.000
10:52:00 AM	0.2	0.085	0.000
10:53:00 AM	0.1	0.083	0.000
10:54:00 AM	0.1	0.080	0.000
10:55:00 AM	0.2	0.094	0.000
10:56:00 AM	0.2	0.099	0.000
10:57:00 AM	0.2	0.089	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:58:00 AM	0.2	0.096	0.000
10:59:00 AM	0.2	0.095	0.000
11:00:00 AM	0.2	0.075	0.000
11:01:00 AM	0.2	0.084	0.000
11:02:00 AM	0.2	0.077	0.000
11:03:00 AM	0.2	0.081	0.000
11:04:00 AM	0.2	0.080	0.000
11:05:00 AM	0.2	0.104	0.000
11:06:00 AM	0.2	0.076	0.000
11:07:00 AM	0.2	0.084	0.000
11:08:00 AM	0.2	0.110	0.000
11:09:00 AM	0.2	0.093	0.000
11:10:00 AM	0.2	0.081	0.000
11:11:00 AM	0.2	0.082	0.000
11:12:00 AM	0.2	0.090	0.000
11:13:00 AM	0.2	0.083	0.000
11:14:00 AM	0.2	0.094	0.000
11:15:00 AM	0.2	0.077	0.000
11:16:00 AM	0.2	0.084	0.000
11:17:00 AM	0.2	0.089	0.000
11:18:00 AM	0.2	0.090	0.000
11:19:00 AM	0.2	0.077	0.000
11:20:00 AM	0.2	0.087	0.000
11:21:00 AM	0.2	0.099	0.000
11:22:00 AM	0.2	0.077	0.000
11:23:00 AM	0.2	0.077	0.000
11:24:00 AM	0.2	0.089	0.000
11:25:00 AM	0.2	0.084	0.000
11:26:00 AM	0.2	0.079	0.000
11:27:00 AM	0.2	0.074	0.000
11:28:00 AM	0.2	0.074	0.000
11:29:00 AM	0.2	0.075	0.000
11:30:00 AM	0.2	0.071	0.000
11:31:00 AM	0.2	0.072	0.000
11:32:00 AM	0.3	0.081	0.000
11:33:00 AM	0.2	0.094	0.000
11:34:00 AM	0.2	0.095	0.000
11:35:00 AM	0.2	0.073	0.000
11:36:00 AM	0.2	0.073	0.000
11:37:00 AM	0.2	0.096	0.000
11:38:00 AM	0.2	0.084	0.000
11:39:00 AM	0.2	0.077	0.000
11:40:00 AM	0.2	0.072	0.000
11:41:00 AM	0.2	0.076	0.000
11:42:00 AM	0.2	0.076	0.000
11:43:00 AM	0.3	0.098	0.000
11:44:00 AM	0.2	0.102	0.000
11:45:00 AM	0.2	0.074	0.000
11:46:00 AM	0.2	0.083	0.000
11:47:00 AM	0.2	0.077	0.000
11:48:00 AM	0.2	0.078	0.000
11:49:00 AM	0.2	0.076	0.000
11:50:00 AM	0.2	0.078	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:51:00 AM	0.2	0.085	0.000
11:52:00 AM	0.2	0.074	0.000
11:53:00 AM	0.2	0.072	0.000
11:54:00 AM	0.2	0.075	0.000
11:55:00 AM	0.2	0.075	0.000
11:56:00 AM	0.2	0.072	0.000
11:57:00 AM	0.2	0.076	0.000
11:58:00 AM	0.2	0.075	0.000
11:59:00 AM	0.2	0.075	0.000
12:00:00 PM	0.2	0.073	0.000
12:01:00 PM	0.2	0.074	0.000
12:02:00 PM	0.2	0.069	0.000
12:03:00 PM	0.2	0.069	0.000
12:04:00 PM	0.2	0.070	0.000
12:05:00 PM	0.2	0.069	0.000
12:06:00 PM	0.2	0.070	0.000
12:07:00 PM	0.2	0.071	0.000
12:08:00 PM	0.2	0.071	0.000
12:09:00 PM	0.2	0.071	0.000
12:10:00 PM	0.2	0.072	0.000
12:11:00 PM	0.2	0.071	0.000
12:12:00 PM	0.2	0.069	0.000
12:13:00 PM	0.2	0.067	0.000
12:14:00 PM	0.2	0.067	0.000
12:15:00 PM	0.2	0.066	0.000
12:16:00 PM	0.2	0.068	0.000
12:17:00 PM	0.2	0.068	0.000
12:18:00 PM	0.2	0.070	0.000
12:19:00 PM	0.2	0.070	0.000
12:20:00 PM	0.2	0.068	0.000
12:21:00 PM	0.2	0.069	0.000
12:22:00 PM	0.2	0.070	0.000
12:23:00 PM	0.2	0.069	0.000
12:24:00 PM	0.2	0.070	0.000
12:25:00 PM	0.2	0.070	0.000
12:26:00 PM	0.2	0.070	0.000
12:27:00 PM	0.2	0.069	0.000
12:28:00 PM	0.2	0.069	0.000
12:29:00 PM	0.2	0.069	0.000
12:30:00 PM	0.2	0.070	0.000
12:31:00 PM	0.2	0.069	0.000
12:32:00 PM	0.2	0.067	0.000
12:33:00 PM	0.2	0.068	0.000
12:34:00 PM	0.2	0.068	0.000
12:35:00 PM	0.2	0.067	0.000
12:36:00 PM	0.2	0.066	0.000
12:37:00 PM	0.2	0.066	0.000
12:38:00 PM	0.3	0.067	0.000
12:39:00 PM	0.2	0.068	0.000
12:40:00 PM	0.2	0.069	0.000
12:41:00 PM	0.2	0.067	0.000
12:42:00 PM	0.2	0.068	0.000
12:43:00 PM	0.2	0.067	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:44:00 PM	0.2	0.068	0.000
12:45:00 PM	0.2	0.068	0.000
12:46:00 PM	0.2	0.067	0.000
12:47:00 PM	0.2	0.067	0.000
12:48:00 PM	0.2	0.068	0.000
12:49:00 PM	0.2	0.069	0.000
12:50:00 PM	0.2	0.069	0.000
12:51:00 PM	0.2	0.069	0.000
12:52:00 PM	0.2	0.068	0.000
12:53:00 PM	0.2	0.069	0.000
12:54:00 PM	0.2	0.071	0.000
12:55:00 PM	0.2	0.071	0.000
12:56:00 PM	0.2	0.069	0.000
12:57:00 PM	0.3	0.069	0.000
12:58:00 PM	0.2	0.072	0.000
12:59:00 PM	0.2	0.071	0.000
1:00:00 PM	0.3	0.071	0.000
1:01:00 PM	0.2	0.072	0.000
1:02:00 PM	0.3	0.072	0.000
1:03:00 PM	0.3	0.077	0.000
1:04:00 PM	0.3	0.094	0.000
1:05:00 PM	0.2	0.081	0.000
1:06:00 PM	0.3	0.123	0.000
1:07:00 PM	0.3	0.086	0.000
1:08:00 PM	0.3	0.084	0.000
1:09:00 PM	0.3	0.086	0.000
1:10:00 PM	0.3	0.087	0.000
1:11:00 PM	0.3	0.099	0.000
1:12:00 PM	0.3	0.081	0.000
1:13:00 PM	0.3	0.084	0.000
1:14:00 PM	0.3	0.077	0.000
1:15:00 PM	0.3	0.087	0.000
1:16:00 PM	0.3	0.076	0.000
1:17:00 PM	0.3	0.077	0.000
1:18:00 PM	0.3	0.083	0.000
1:19:00 PM	0.3	0.084	0.000
1:20:00 PM	0.3	0.082	0.000
1:21:00 PM	0.3	0.098	0.000
1:22:00 PM	0.3	0.088	0.000
1:23:00 PM	0.3	0.079	0.000
1:24:00 PM	0.3	0.080	0.000
1:25:00 PM	0.3	0.083	0.000
1:26:00 PM	0.3	0.088	0.000
1:27:00 PM	0.3	0.091	0.000
1:28:00 PM	0.3	0.083	0.000
1:29:00 PM	0.3	0.083	0.000
1:30:00 PM	0.3	0.082	0.000
1:31:00 PM	0.3	0.084	0.000
1:32:00 PM	0.3	0.098	0.000
1:33:00 PM	0.3	0.099	0.000
1:34:00 PM	0.3	0.087	0.000
1:35:00 PM	0.3	0.097	0.000
1:36:00 PM	0.3	0.103	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 13, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:37:00 PM	0.3	0.091	0.000
1:38:00 PM	0.3	0.106	0.000
1:39:00 PM	0.3	0.104	0.000
1:40:00 PM	0.3	0.094	0.000
1:41:00 PM	0.3	0.098	0.000
1:42:00 PM	0.3	0.095	0.000
1:43:00 PM	0.3	0.093	0.000
1:44:00 PM	0.3	0.097	0.000
1:45:00 PM	0.3	0.088	0.000
1:46:00 PM	0.3	0.085	0.000
1:47:00 PM	0.3	0.083	0.000
1:48:00 PM	0.3	0.087	0.000
1:49:00 PM	0.3	0.112	0.000
1:50:00 PM	0.3	0.082	0.000
1:51:00 PM	0.3	0.087	0.000
1:52:00 PM	0.3	0.081	0.000
1:53:00 PM	0.3	0.078	0.000
1:54:00 PM	0.3	0.078	0.000
1:55:00 PM	0.3	0.078	0.000
1:56:00 PM	0.3	0.079	0.000
1:57:00 PM	0.3	0.078	0.000
1:58:00 PM	0.3	0.079	0.000
1:59:00 PM	0.3	0.091	0.000
2:00:00 PM	0.3	0.084	0.000
2:01:00 PM	0.3	0.077	0.000
2:02:00 PM	0.3	0.081	0.000
2:03:00 PM	0.3	0.078	0.000
2:04:00 PM	0.3	0.085	0.000
2:05:00 PM	0.3	0.081	0.000
2:06:00 PM	0.3	0.080	0.000
2:07:00 PM	0.3	0.077	0.000
2:08:00 PM	0.3	0.082	0.000
2:09:00 PM	0.3	0.079	0.000
2:10:00 PM	0.3	0.077	0.000
2:11:00 PM	0.3	0.091	0.000
2:12:00 PM	0.3	0.084	0.000
2:13:00 PM	0.3	0.077	0.000
2:14:00 PM	0.3	0.077	0.000
2:15:00 PM	0.3	0.081	0.000
2:16:00 PM	0.3	0.084	0.000
2:17:00 PM	0.3	0.084	0.000
2:18:00 PM	0.3	0.079	0.000
2:19:00 PM	0.3	0.077	0.000
2:20:00 PM	0.3	0.077	0.000
2:21:00 PM	0.3	0.077	0.000
2:22:00 PM	0.3	0.075	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 8 mph	Date:	1/14/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continuing excavation on area #4. Aarco excavating soils to a maximum depth of four (4) feet bgs. Preferred is field screening all excavated soils for the presence of VOC's and Mercury Vapor. Aarco is also loading out two truck of excavated soils for transport to Clean Earth for disposal. All excavated soils are being placed on the stockpile. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.2	0.084	0.000	0.2	0.101	0.000
Down Wind	0.2	0.102	0.000	0.3	0.121	0.000
Work Zone	0.2	0.089	0.000	0.2	0.104	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will load out remaining soils and demobilize equipment for the site.



View of excavation area.



Aarco loading out excavated soils for transport to Clean Earth.

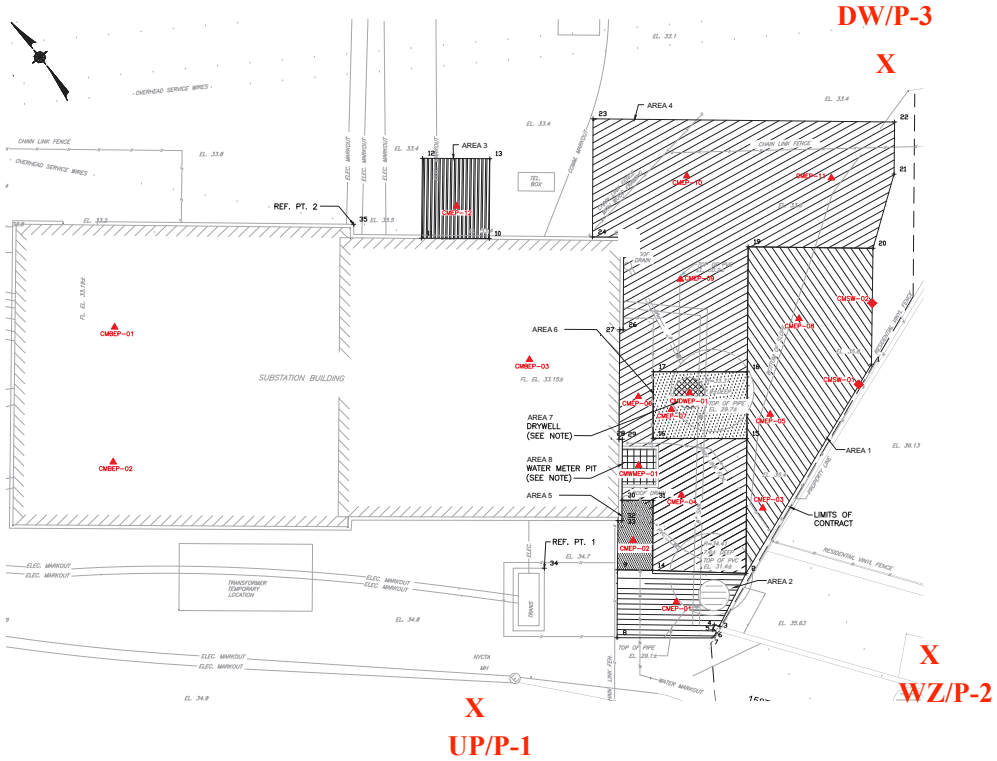


Preferred collecting endpoint samples from area #1.



Preferred field screening endpoint samples.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:26:00 AM	0.0	0.0	0.000
9:27:00 AM	0.0	0.000	0.000
9:28:00 AM	0.0	0.016	0.000
9:29:00 AM	0.0	0.096	0.000
9:30:00 AM	0.0	0.085	0.000
9:31:00 AM	0.0	0.085	0.000
9:32:00 AM	0.0	0.081	0.000
9:33:00 AM	0.0	0.080	0.000
9:34:00 AM	0.0	0.081	0.000
9:35:00 AM	0.0	0.081	0.000
9:36:00 AM	0.0	0.081	0.000
9:37:00 AM	0.0	0.081	0.000
9:38:00 AM	0.0	0.080	0.000
9:39:00 AM	0.0	0.080	0.000
9:40:00 AM	0.0	0.080	0.000
9:41:00 AM	0.0	0.080	0.000
9:42:00 AM	0.0	0.083	0.000
9:43:00 AM	0.0	0.096	0.000
9:44:00 AM	0.0	0.092	0.000
9:45:00 AM	0.0	0.089	0.000
9:46:00 AM	0.0	0.081	0.000
9:47:00 AM	0.0	0.080	0.000
9:48:00 AM	0.0	0.079	0.000
9:49:00 AM	0.0	0.079	0.000
9:50:00 AM	0.0	0.079	0.000
9:51:00 AM	0.0	0.080	0.000
9:52:00 AM	0.0	0.081	0.000
9:53:00 AM	0.0	0.083	0.000
9:54:00 AM	0.0	0.094	0.000
9:55:00 AM	0.0	0.088	0.000
9:56:00 AM	0.1	0.085	0.000
9:57:00 AM	0.0	0.080	0.000
9:58:00 AM	0.0	0.081	0.000
9:59:00 AM	0.0	0.087	0.000
10:00:00 AM	0.0	0.083	0.000
10:01:00 AM	0.1	0.080	0.000
10:02:00 AM	0.1	0.081	0.000
10:03:00 AM	0.1	0.085	0.000
10:04:00 AM	0.1	0.084	0.000
10:05:00 AM	0.1	0.083	0.000
10:06:00 AM	0.1	0.085	0.000
10:07:00 AM	0.1	0.083	0.000
10:08:00 AM	0.1	0.083	0.000
10:09:00 AM	0.1	0.088	0.000
10:10:00 AM	0.1	0.086	0.000
10:11:00 AM	0.1	0.088	0.000
10:12:00 AM	0.1	0.086	0.000
10:13:00 AM	0.7	0.087	0.000
10:14:00 AM	0.2	0.092	0.000
10:15:00 AM	0.1	0.101	0.000
10:16:00 AM	0.2	0.093	0.000
10:17:00 AM	0.1	0.101	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:18:00 AM	0.1	0.100	0.000
10:19:00 AM	0.1	0.104	0.000
10:20:00 AM	0.1	0.102	0.000
10:21:00 AM	0.1	0.095	0.000
10:22:00 AM	0.1	0.097	0.000
10:23:00 AM	0.1	0.094	0.000
10:24:00 AM	0.1	0.092	0.000
10:25:00 AM	0.1	0.092	0.000
10:26:00 AM	0.1	0.092	0.000
10:27:00 AM	0.1	0.091	0.000
10:28:00 AM	0.1	0.091	0.000
10:29:00 AM	0.1	0.106	0.000
10:30:00 AM	0.2	0.100	0.000
10:31:00 AM	0.1	0.095	0.000
10:32:00 AM	0.1	0.093	0.000
10:33:00 AM	0.1	0.093	0.000
10:34:00 AM	0.1	0.093	0.000
10:35:00 AM	0.1	0.093	0.000
10:36:00 AM	0.1	0.093	0.000
10:37:00 AM	0.2	0.096	0.000
10:38:00 AM	0.2	0.096	0.000
10:39:00 AM	0.2	0.093	0.000
10:40:00 AM	0.2	0.093	0.000
10:41:00 AM	0.2	0.093	0.000
10:42:00 AM	0.2	0.096	0.000
10:43:00 AM	0.2	0.094	0.000
10:44:00 AM	0.2	0.093	0.000
10:45:00 AM	0.2	0.093	0.000
10:46:00 AM	0.2	0.092	0.000
10:47:00 AM	0.2	0.092	0.000
10:48:00 AM	0.2	0.091	0.000
10:49:00 AM	0.2	0.091	0.000
10:50:00 AM	0.2	0.092	0.000
10:51:00 AM	0.2	0.091	0.000
10:52:00 AM	0.2	0.092	0.000
10:53:00 AM	0.2	0.092	0.000
10:54:00 AM	0.2	0.098	0.000
10:55:00 AM	0.2	0.092	0.000
10:56:00 AM	0.2	0.091	0.000
10:57:00 AM	0.2	0.092	0.000
10:58:00 AM	0.2	0.093	0.000
10:59:00 AM	0.2	0.094	0.000
11:00:00 AM	0.2	0.097	0.000
11:01:00 AM	0.2	0.142	0.000
11:02:00 AM	0.2	0.098	0.000
11:03:00 AM	0.2	0.090	0.000
11:04:00 AM	0.2	0.092	0.000
11:05:00 AM	0.2	0.094	0.000
11:06:00 AM	0.2	0.112	0.000
11:07:00 AM	0.2	0.089	0.000
11:08:00 AM	0.2	0.089	0.000
11:09:00 AM	0.2	0.098	0.000
11:10:00 AM	0.2	0.111	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:11:00 AM	0.2	0.091	0.000
11:12:00 AM	0.2	0.089	0.000
11:13:00 AM	0.2	0.088	0.000
11:14:00 AM	0.2	0.096	0.000
11:15:00 AM	0.2	0.130	0.000
11:16:00 AM	0.2	0.091	0.000
11:17:00 AM	0.2	0.090	0.000
11:18:00 AM	0.2	0.107	0.000
11:19:00 AM	0.2	0.096	0.000
11:20:00 AM	0.2	0.092	0.000
11:21:00 AM	0.2	0.102	0.000
11:22:00 AM	0.2	0.114	0.000
11:23:00 AM	0.2	0.095	0.000
11:24:00 AM	0.2	0.092	0.000
11:25:00 AM	0.2	0.088	0.000
11:26:00 AM	0.2	0.087	0.000
11:27:00 AM	0.2	0.088	0.000
11:28:00 AM	0.2	0.086	0.000
11:29:00 AM	0.2	0.086	0.000
11:30:00 AM	0.2	0.096	0.000
11:31:00 AM	0.2	0.094	0.000
11:32:00 AM	0.2	0.088	0.000
11:33:00 AM	0.2	0.087	0.000
11:34:00 AM	0.2	0.087	0.000
11:35:00 AM	0.2	0.087	0.000
11:36:00 AM	0.2	0.087	0.000
11:37:00 AM	0.2	0.086	0.000
11:38:00 AM	0.2	0.102	0.000
11:39:00 AM	0.2	0.086	0.000
11:40:00 AM	0.2	0.085	0.000
11:41:00 AM	0.2	0.083	0.000
11:42:00 AM	0.2	0.101	0.000
11:43:00 AM	0.2	0.084	0.000
11:44:00 AM	0.2	0.083	0.000
11:45:00 AM	0.2	0.084	0.000
11:46:00 AM	0.2	0.087	0.000
11:47:00 AM	0.2	0.084	0.000
11:48:00 AM	0.2	0.083	0.000
11:49:00 AM	0.2	0.083	0.000
11:50:00 AM	0.2	0.088	0.000
11:51:00 AM	0.2	0.083	0.000
11:52:00 AM	0.2	0.082	0.000
11:53:00 AM	0.2	0.083	0.000
11:54:00 AM	0.2	0.084	0.000
11:55:00 AM	0.2	0.087	0.000
11:56:00 AM	0.2	0.084	0.000
11:57:00 AM	0.2	0.082	0.000
11:58:00 AM	0.2	0.096	0.000
11:59:00 AM	0.2	0.081	0.000
12:00:00 PM	0.2	0.078	0.000
12:01:00 PM	0.2	0.077	0.000
12:02:00 PM	0.2	0.076	0.000
12:03:00 PM	0.2	0.075	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:04:00 PM	0.2	0.073	0.000
12:05:00 PM	0.2	0.072	0.000
12:06:00 PM	0.2	0.068	0.000
12:07:00 PM	0.2	0.070	0.000
12:08:00 PM	0.2	0.079	0.000
12:09:00 PM	0.2	0.079	0.000
12:10:00 PM	0.2	0.079	0.000
12:11:00 PM	0.2	0.079	0.000
12:12:00 PM	0.2	0.078	0.000
12:13:00 PM	0.2	0.078	0.000
12:14:00 PM	0.2	0.079	0.000
12:15:00 PM	0.2	0.077	0.000
12:16:00 PM	0.2	0.076	0.000
12:17:00 PM	0.2	0.076	0.000
12:18:00 PM	0.2	0.074	0.000
12:19:00 PM	0.2	0.068	0.000
12:20:00 PM	0.2	0.065	0.000
12:21:00 PM	0.2	0.064	0.000
12:22:00 PM	0.2	0.062	0.000
12:23:00 PM	0.2	0.062	0.000
12:24:00 PM	0.2	0.063	0.000
12:25:00 PM	0.2	0.065	0.000
12:26:00 PM	0.2	0.064	0.000
12:27:00 PM	0.2	0.063	0.000
12:28:00 PM	0.2	0.063	0.000
12:29:00 PM	0.2	0.064	0.000
12:30:00 PM	0.2	0.062	0.000
12:31:00 PM	0.1	0.062	0.000
12:32:00 PM	0.2	0.062	0.000
12:33:00 PM	0.2	0.061	0.000
12:34:00 PM	0.2	0.061	0.000
12:35:00 PM	0.1	0.060	0.000
12:36:00 PM	0.2	0.058	0.000
12:37:00 PM	0.2	0.059	0.000
12:38:00 PM	0.2	0.064	0.000
12:39:00 PM	0.2	0.067	0.000
12:40:00 PM	0.2	0.069	0.000
12:41:00 PM	0.2	0.068	0.000
12:42:00 PM	0.2	0.068	0.000
12:43:00 PM	0.2	0.064	0.000
12:44:00 PM	0.2	0.064	0.000
12:45:00 PM	0.2	0.064	0.000
12:46:00 PM	0.2	0.063	0.000
12:47:00 PM	0.1	0.062	0.000
12:48:00 PM	0.2	0.067	0.000
12:49:00 PM	0.2	0.081	0.000
12:50:00 PM	0.2	0.072	0.000
12:51:00 PM	0.2	0.075	0.000
12:52:00 PM	0.2	0.077	0.000
12:53:00 PM	0.2	0.078	0.000
12:54:00 PM	0.2	0.077	0.000
12:55:00 PM	0.4	0.077	0.000
12:56:00 PM	0.6	0.077	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:57:00 PM	0.2	0.076	0.000
12:58:00 PM	0.2	0.099	0.000
12:59:00 PM	0.2	0.079	0.000
1:00:00 PM	0.2	0.081	0.000
1:01:00 PM	0.2	0.077	0.000
1:02:00 PM	0.2	0.134	0.000
1:03:00 PM	0.2	0.094	0.000
1:04:00 PM	0.2	0.084	0.000
1:05:00 PM	0.2	0.084	0.000
1:06:00 PM	0.2	0.082	0.000
1:07:00 PM	0.2	0.085	0.000
1:08:00 PM	0.2	0.078	0.000
1:09:00 PM	0.2	0.080	0.000
1:10:00 PM	0.2	0.086	0.000
1:11:00 PM	0.2	0.088	0.000
1:12:00 PM	0.2	0.081	0.000
1:13:00 PM	0.2	0.079	0.000
1:14:00 PM	0.2	0.079	0.000
1:15:00 PM	0.2	0.080	0.000
1:16:00 PM	0.2	0.103	0.000
1:17:00 PM	0.2	0.084	0.000
1:18:00 PM	0.2	0.084	0.000
1:19:00 PM	0.2	0.085	0.000
1:20:00 PM	0.2	0.105	0.000
1:21:00 PM	0.2	0.094	0.000
1:22:00 PM	0.2	0.091	0.000
1:23:00 PM	0.2	0.084	0.000
1:24:00 PM	0.2	0.099	0.000
1:25:00 PM	0.2	0.082	0.000
1:26:00 PM	0.2	0.081	0.000
1:27:00 PM	0.2	0.081	0.000
1:28:00 PM	0.2	0.081	0.000
1:29:00 PM	0.2	0.080	0.000
1:30:00 PM	0.2	0.083	0.000
1:31:00 PM	0.2	0.083	0.000
1:32:00 PM	0.2	0.083	0.000
1:33:00 PM	0.2	0.090	0.000
1:34:00 PM	0.2	0.093	0.000
1:35:00 PM	0.2	0.081	0.000
1:36:00 PM	0.2	0.082	0.000
1:37:00 PM	0.2	0.084	0.000
1:38:00 PM	0.2	0.080	0.000
1:39:00 PM	0.2	0.080	0.000
1:40:00 PM	0.2	0.078	0.000
1:41:00 PM	0.6	0.099	0.000
1:42:00 PM	0.2	0.101	0.000
1:43:00 PM	0.2	0.080	0.000
1:44:00 PM	0.2	0.080	0.000
1:45:00 PM	0.2	0.079	0.000
1:46:00 PM	0.2	0.081	0.000
1:47:00 PM	0.2	0.077	0.000
1:48:00 PM	0.2	0.079	0.000
1:49:00 PM	0.2	0.078	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:50:00 PM	0.2	0.078	0.000
1:51:00 PM	0.2	0.078	0.000
1:52:00 PM	0.2	0.079	0.000
1:53:00 PM	0.2	0.080	0.000
1:54:00 PM	0.2	0.079	0.000
1:55:00 PM	0.2	0.080	0.000
1:56:00 PM	0.2	0.082	0.000
1:57:00 PM	0.2	0.079	0.000
1:58:00 PM	0.2	0.079	0.000
1:59:00 PM	0.2	0.083	0.000
2:00:00 PM	0.2	0.081	0.000
2:01:00 PM	0.2	0.081	0.000
2:02:00 PM	0.2	0.079	0.000
2:03:00 PM	0.2	0.078	0.000
2:04:00 PM	0.2	0.080	0.000
2:05:00 PM	0.2	0.081	0.000
2:06:00 PM	0.2	0.080	0.000
2:07:00 PM	0.2	0.078	0.000
2:08:00 PM	0.2	0.078	0.000
2:09:00 PM	0.2	0.078	0.000
2:10:00 PM	0.2	0.078	0.000
2:11:00 PM	0.2	0.084	0.000
2:12:00 PM	0.2	0.091	0.000
2:13:00 PM	0.2	0.093	0.000
2:14:00 PM	0.2	0.085	0.000
2:15:00 PM	0.2	0.086	0.000
2:16:00 PM	0.2	0.079	0.000
2:17:00 PM	0.2	0.078	0.000
2:18:00 PM	0.2	0.078	0.000
2:19:00 PM	0.2	0.077	0.000
2:20:00 PM	0.2	0.077	0.000
2:21:00 PM	0.2	0.077	0.000
2:22:00 PM	0.2	0.079	0.000
2:23:00 PM	0.2	0.079	0.000
2:24:00 PM	0.2	0.080	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:31:00 AM	0.0	0.261	0.000
9:32:00 AM	0.0	0.092	0.000
9:33:00 AM	0.0	0.090	0.000
9:34:00 AM	0.0	0.091	0.000
9:35:00 AM	0.0	0.088	0.000
9:36:00 AM	0.0	0.088	0.000
9:37:00 AM	0.0	0.088	0.000
9:38:00 AM	0.0	0.090	0.000
9:39:00 AM	0.0	0.093	0.000
9:40:00 AM	0.0	0.090	0.000
9:41:00 AM	0.0	0.091	0.000
9:42:00 AM	0.0	0.089	0.000
9:43:00 AM	0.1	0.088	0.000
9:44:00 AM	0.1	0.088	0.000
9:45:00 AM	0.1	0.086	0.000
9:46:00 AM	0.1	0.086	0.000
9:47:00 AM	0.1	0.090	0.000
9:48:00 AM	0.1	0.091	0.000
9:49:00 AM	0.1	0.090	0.000
9:50:00 AM	0.1	0.100	0.000
9:51:00 AM	0.1	0.095	0.000
9:52:00 AM	0.1	0.092	0.000
9:53:00 AM	0.1	0.088	0.000
9:54:00 AM	0.1	0.090	0.000
9:55:00 AM	0.1	0.095	0.000
9:56:00 AM	0.1	0.089	0.000
9:57:00 AM	0.1	0.092	0.000
9:58:00 AM	0.1	0.086	0.000
9:59:00 AM	0.1	0.094	0.000
10:00:00 AM	0.1	0.089	0.000
10:01:00 AM	0.1	0.087	0.000
10:02:00 AM	0.1	0.085	0.000
10:03:00 AM	0.1	0.085	0.000
10:04:00 AM	0.1	0.090	0.000
10:05:00 AM	0.2	0.088	0.000
10:06:00 AM	0.2	0.087	0.000
10:07:00 AM	0.2	0.090	0.000
10:08:00 AM	0.2	0.091	0.000
10:09:00 AM	0.2	0.090	0.000
10:10:00 AM	0.2	0.090	0.000
10:11:00 AM	0.2	0.088	0.000
10:12:00 AM	0.2	0.087	0.000
10:13:00 AM	0.2	0.087	0.000
10:14:00 AM	0.2	0.089	0.000
10:15:00 AM	0.2	0.089	0.000
10:16:00 AM	0.2	0.090	0.000
10:17:00 AM	0.2	0.090	0.000
10:18:00 AM	0.2	0.092	0.000
10:19:00 AM	0.2	0.092	0.000
10:20:00 AM	0.2	0.091	0.000
10:21:00 AM	0.2	0.091	0.000
10:22:00 AM	0.2	0.091	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:23:00 AM	0.2	0.094	0.000
10:24:00 AM	0.2	0.099	0.000
10:25:00 AM	0.2	0.100	0.000
10:26:00 AM	0.2	0.099	0.000
10:27:00 AM	0.2	0.101	0.000
10:28:00 AM	0.2	0.100	0.000
10:29:00 AM	0.2	0.101	0.000
10:30:00 AM	0.2	0.098	0.000
10:31:00 AM	0.2	0.098	0.000
10:32:00 AM	0.2	0.097	0.000
10:33:00 AM	0.2	0.097	0.000
10:34:00 AM	0.2	0.095	0.000
10:35:00 AM	0.2	0.099	0.000
10:36:00 AM	0.2	0.100	0.000
10:37:00 AM	0.2	0.101	0.000
10:38:00 AM	0.2	0.100	0.000
10:39:00 AM	0.2	0.103	0.000
10:40:00 AM	0.2	0.103	0.000
10:41:00 AM	0.2	0.104	0.000
10:42:00 AM	0.2	0.101	0.000
10:43:00 AM	0.2	0.101	0.000
10:44:00 AM	0.2	0.100	0.000
10:45:00 AM	0.2	0.099	0.000
10:46:00 AM	0.3	0.099	0.000
10:47:00 AM	0.3	0.101	0.000
10:48:00 AM	0.3	0.100	0.000
10:49:00 AM	0.2	0.100	0.000
10:50:00 AM	0.3	0.100	0.000
10:51:00 AM	0.3	0.101	0.000
10:52:00 AM	0.2	0.100	0.000
10:53:00 AM	0.3	0.100	0.000
10:54:00 AM	0.3	0.114	0.000
10:55:00 AM	0.3	0.110	0.000
10:56:00 AM	0.2	0.100	0.000
10:57:00 AM	0.3	0.098	0.000
10:58:00 AM	0.2	0.112	0.000
10:59:00 AM	0.3	0.111	0.000
11:00:00 AM	0.2	0.102	0.000
11:01:00 AM	0.3	0.099	0.000
11:02:00 AM	0.3	0.099	0.000
11:03:00 AM	0.3	0.099	0.000
11:04:00 AM	0.3	0.100	0.000
11:05:00 AM	0.3	0.101	0.000
11:06:00 AM	0.2	0.114	0.000
11:07:00 AM	0.3	0.099	0.000
11:08:00 AM	0.2	0.100	0.000
11:09:00 AM	0.2	0.097	0.000
11:10:00 AM	0.3	0.095	0.000
11:11:00 AM	0.2	0.097	0.000
11:12:00 AM	0.2	0.098	0.000
11:13:00 AM	0.2	0.106	0.000
11:14:00 AM	0.2	0.097	0.000
11:15:00 AM	0.2	0.097	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:16:00 AM	0.2	0.095	0.000
11:17:00 AM	0.2	0.098	0.000
11:18:00 AM	0.3	0.096	0.000
11:19:00 AM	0.3	0.095	0.000
11:20:00 AM	0.3	0.096	0.000
11:21:00 AM	0.2	0.099	0.000
11:22:00 AM	0.2	0.098	0.000
11:23:00 AM	0.2	0.096	0.000
11:24:00 AM	0.2	0.096	0.000
11:25:00 AM	0.2	0.095	0.000
11:26:00 AM	0.3	0.098	0.000
11:27:00 AM	0.2	0.096	0.000
11:28:00 AM	0.2	0.095	0.000
11:29:00 AM	0.2	0.095	0.000
11:30:00 AM	0.2	0.098	0.000
11:31:00 AM	0.2	0.101	0.000
11:32:00 AM	0.2	0.101	0.000
11:33:00 AM	0.2	0.097	0.000
11:34:00 AM	0.2	0.094	0.000
11:35:00 AM	0.3	0.093	0.000
11:36:00 AM	0.3	0.101	0.000
11:37:00 AM	0.2	0.100	0.000
11:38:00 AM	0.2	0.099	0.000
11:39:00 AM	0.2	0.095	0.000
11:40:00 AM	0.2	0.097	0.000
11:41:00 AM	0.2	0.095	0.000
11:42:00 AM	0.2	0.095	0.000
11:43:00 AM	0.2	0.095	0.000
11:44:00 AM	0.2	0.093	0.000
11:45:00 AM	0.2	0.094	0.000
11:46:00 AM	0.2	0.098	0.000
11:47:00 AM	0.2	0.094	0.000
11:48:00 AM	0.2	0.094	0.000
11:49:00 AM	0.2	0.092	0.000
11:50:00 AM	0.2	0.098	0.000
11:51:00 AM	0.2	0.104	0.000
11:52:00 AM	0.2	0.106	0.000
11:53:00 AM	0.2	0.095	0.000
11:54:00 AM	0.2	0.095	0.000
11:55:00 AM	0.2	0.105	0.000
11:56:00 AM	0.2	0.101	0.000
11:57:00 AM	0.3	0.097	0.000
11:58:00 AM	0.2	0.091	0.000
11:59:00 AM	0.2	0.089	0.000
12:00:00 PM	0.2	0.087	0.000
12:01:00 PM	0.2	0.085	0.000
12:02:00 PM	0.2	0.083	0.000
12:03:00 PM	0.2	0.083	0.000
12:04:00 PM	0.2	0.081	0.000
12:05:00 PM	0.2	0.081	0.000
12:06:00 PM	0.2	0.074	0.000
12:07:00 PM	0.2	0.081	0.000
12:08:00 PM	0.2	0.103	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:09:00 PM	0.2	0.089	0.000
12:10:00 PM	0.2	0.088	0.000
12:11:00 PM	0.2	0.087	0.000
12:12:00 PM	0.2	0.085	0.000
12:13:00 PM	0.2	0.084	0.000
12:14:00 PM	0.2	0.086	0.000
12:15:00 PM	0.2	0.085	0.000
12:16:00 PM	0.2	0.082	0.000
12:17:00 PM	0.2	0.082	0.000
12:18:00 PM	0.2	0.078	0.000
12:19:00 PM	0.2	0.073	0.000
12:20:00 PM	0.2	0.071	0.000
12:21:00 PM	0.2	0.069	0.000
12:22:00 PM	0.3	0.068	0.000
12:23:00 PM	0.2	0.068	0.000
12:24:00 PM	0.2	0.070	0.000
12:25:00 PM	0.2	0.070	0.000
12:26:00 PM	0.2	0.068	0.000
12:27:00 PM	0.2	0.068	0.000
12:28:00 PM	0.2	0.068	0.000
12:29:00 PM	0.2	0.071	0.000
12:30:00 PM	0.2	0.069	0.000
12:31:00 PM	0.2	0.068	0.000
12:32:00 PM	0.2	0.068	0.000
12:33:00 PM	0.2	0.067	0.000
12:34:00 PM	0.2	0.065	0.000
12:35:00 PM	0.2	0.063	0.000
12:36:00 PM	0.2	0.063	0.000
12:37:00 PM	0.2	0.065	0.000
12:38:00 PM	0.2	0.072	0.000
12:39:00 PM	0.2	0.073	0.000
12:40:00 PM	0.2	0.073	0.000
12:41:00 PM	0.2	0.075	0.000
12:42:00 PM	0.2	0.069	0.000
12:43:00 PM	0.2	0.069	0.000
12:44:00 PM	0.2	0.068	0.000
12:45:00 PM	0.2	0.068	0.000
12:46:00 PM	0.2	0.066	0.000
12:47:00 PM	0.2	0.065	0.000
12:48:00 PM	0.2	0.072	0.000
12:49:00 PM	0.2	0.080	0.000
12:50:00 PM	0.2	0.080	0.000
12:51:00 PM	0.2	0.076	0.000
12:52:00 PM	0.2	0.083	0.000
12:53:00 PM	0.2	0.083	0.000
12:54:00 PM	0.2	0.084	0.000
12:55:00 PM	0.2	0.089	0.000
12:56:00 PM	0.3	0.089	0.000
12:57:00 PM	0.2	0.088	0.000
12:58:00 PM	0.2	0.116	0.000
12:59:00 PM	0.2	0.096	0.000
1:00:00 PM	0.2	0.088	0.000
1:01:00 PM	0.2	0.088	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:02:00 PM	0.2	0.086	0.000
1:03:00 PM	0.2	0.086	0.000
1:04:00 PM	0.2	0.082	0.000
1:05:00 PM	0.2	0.081	0.000
1:06:00 PM	0.2	0.081	0.000
1:07:00 PM	0.2	0.084	0.000
1:08:00 PM	0.2	0.081	0.000
1:09:00 PM	0.2	0.084	0.000
1:10:00 PM	0.2	0.093	0.000
1:11:00 PM	0.2	0.098	0.000
1:12:00 PM	0.2	0.087	0.000
1:13:00 PM	0.2	0.086	0.000
1:14:00 PM	0.2	0.088	0.000
1:15:00 PM	0.2	0.088	0.000
1:16:00 PM	0.2	0.087	0.000
1:17:00 PM	0.2	0.088	0.000
1:18:00 PM	0.2	0.088	0.000
1:19:00 PM	0.2	0.088	0.000
1:20:00 PM	0.2	0.086	0.000
1:21:00 PM	0.2	0.091	0.000
1:22:00 PM	0.2	0.087	0.000
1:23:00 PM	0.2	0.086	0.000
1:24:00 PM	0.2	0.086	0.000
1:25:00 PM	0.2	0.088	0.000
1:26:00 PM	0.2	0.088	0.000
1:27:00 PM	0.2	0.088	0.000
1:28:00 PM	0.2	0.090	0.000
1:29:00 PM	0.2	0.086	0.000
1:30:00 PM	0.2	0.088	0.000
1:31:00 PM	0.2	0.088	0.000
1:32:00 PM	0.2	0.086	0.000
1:33:00 PM	0.2	0.086	0.000
1:34:00 PM	0.2	0.085	0.000
1:35:00 PM	0.2	0.086	0.000
1:36:00 PM	0.2	0.088	0.000
1:37:00 PM	0.2	0.088	0.000
1:38:00 PM	0.2	0.092	0.000
1:39:00 PM	0.2	0.087	0.000
1:40:00 PM	0.2	0.086	0.000
1:41:00 PM	0.2	0.084	0.000
1:42:00 PM	0.2	0.084	0.000
1:43:00 PM	0.2	0.083	0.000
1:44:00 PM	0.2	0.084	0.000
1:45:00 PM	0.2	0.084	0.000
1:46:00 PM	0.2	0.082	0.000
1:47:00 PM	0.2	0.082	0.000
1:48:00 PM	0.2	0.081	0.000
1:49:00 PM	0.2	0.081	0.000
1:50:00 PM	0.2	0.081	0.000
1:51:00 PM	0.2	0.081	0.000
1:52:00 PM	0.2	0.083	0.000
1:53:00 PM	0.2	0.082	0.000
1:54:00 PM	0.2	0.083	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:55:00 PM	0.2	0.084	0.000
1:56:00 PM	0.2	0.083	0.000
1:57:00 PM	0.2	0.083	0.000
1:58:00 PM	0.2	0.083	0.000
1:59:00 PM	0.2	0.084	0.000
2:00:00 PM	0.2	0.087	0.000
2:01:00 PM	0.2	0.086	0.000
2:02:00 PM	0.2	0.087	0.000
2:03:00 PM	0.2	0.086	0.000
2:04:00 PM	0.2	0.083	0.000
2:05:00 PM	0.2	0.084	0.000
2:06:00 PM	0.2	0.085	0.000
2:07:00 PM	0.2	0.087	0.000
2:08:00 PM	0.2	0.084	0.000
2:09:00 PM	0.2	0.085	0.000
2:10:00 PM	0.2	0.085	0.000
2:11:00 PM	0.2	0.085	0.000
2:12:00 PM	0.2	0.083	0.000
2:13:00 PM	0.2	0.083	0.000
2:14:00 PM	0.2	0.083	0.000
2:15:00 PM	0.2	0.088	0.000
2:16:00 PM	0.2	0.089	0.000
2:17:00 PM	0.2	0.090	0.000
2:18:00 PM	0.2	0.094	0.000
2:19:00 PM	0.2	0.111	0.000
2:20:00 PM	0.2	0.090	0.000
2:21:00 PM	0.2	0.090	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:39:00 AM	0.0	0.112	0.000
9:40:00 AM	0.0	0.110	0.000
9:41:00 AM	0.0	0.111	0.000
9:42:00 AM	0.0	0.111	0.000
9:43:00 AM	0.1	0.110	0.000
9:44:00 AM	0.1	0.111	0.000
9:45:00 AM	0.1	0.110	0.000
9:46:00 AM	0.1	0.109	0.000
9:47:00 AM	0.1	0.109	0.000
9:48:00 AM	0.1	0.108	0.000
9:49:00 AM	0.1	0.111	0.000
9:50:00 AM	0.1	0.108	0.000
9:51:00 AM	0.1	0.110	0.000
9:52:00 AM	0.1	0.110	0.000
9:53:00 AM	0.1	0.109	0.000
9:54:00 AM	0.1	0.123	0.000
9:55:00 AM	0.1	0.114	0.000
9:56:00 AM	0.1	0.108	0.000
9:57:00 AM	0.1	0.108	0.000
9:58:00 AM	0.1	0.106	0.000
9:59:00 AM	0.1	0.132	0.000
10:00:00 AM	0.1	0.116	0.000
10:01:00 AM	0.1	0.112	0.000
10:02:00 AM	0.1	0.110	0.000
10:03:00 AM	0.1	0.110	0.000
10:04:00 AM	0.1	0.110	0.000
10:05:00 AM	0.1	0.111	0.000
10:06:00 AM	0.1	0.111	0.000
10:07:00 AM	0.1	0.110	0.000
10:08:00 AM	0.1	0.109	0.000
10:09:00 AM	0.2	0.110	0.000
10:10:00 AM	0.2	0.111	0.000
10:11:00 AM	0.2	0.115	0.000
10:12:00 AM	0.2	0.116	0.000
10:13:00 AM	0.2	0.116	0.000
10:14:00 AM	0.2	0.117	0.000
10:15:00 AM	0.2	0.117	0.000
10:16:00 AM	0.2	0.118	0.000
10:17:00 AM	0.2	0.117	0.000
10:18:00 AM	0.2	0.117	0.000
10:19:00 AM	0.2	0.116	0.000
10:20:00 AM	0.2	0.117	0.000
10:21:00 AM	0.2	0.115	0.000
10:22:00 AM	0.2	0.116	0.000
10:23:00 AM	0.2	0.117	0.000
10:24:00 AM	0.2	0.116	0.000
10:25:00 AM	0.2	0.116	0.000
10:26:00 AM	0.2	0.119	0.000
10:27:00 AM	0.2	0.120	0.000
10:28:00 AM	0.2	0.121	0.000
10:29:00 AM	0.2	0.120	0.000
10:30:00 AM	0.2	0.120	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:31:00 AM	0.2	0.120	0.000
10:32:00 AM	0.2	0.121	0.000
10:33:00 AM	0.2	0.121	0.000
10:34:00 AM	0.2	0.121	0.000
10:35:00 AM	0.2	0.121	0.000
10:36:00 AM	0.2	0.121	0.000
10:37:00 AM	0.2	0.122	0.000
10:38:00 AM	0.2	0.121	0.000
10:39:00 AM	0.2	0.121	0.000
10:40:00 AM	0.2	0.121	0.000
10:41:00 AM	0.2	0.120	0.000
10:42:00 AM	0.2	0.119	0.000
10:43:00 AM	0.2	0.118	0.000
10:44:00 AM	0.2	0.118	0.000
10:45:00 AM	0.2	0.118	0.000
10:46:00 AM	0.2	0.118	0.000
10:47:00 AM	0.2	0.117	0.000
10:48:00 AM	0.2	0.117	0.000
10:49:00 AM	0.2	0.118	0.000
10:50:00 AM	0.3	0.118	0.000
10:51:00 AM	0.3	0.118	0.000
10:52:00 AM	0.3	0.119	0.000
10:53:00 AM	0.2	0.118	0.000
10:54:00 AM	0.3	0.118	0.000
10:55:00 AM	0.3	0.117	0.000
10:56:00 AM	0.3	0.118	0.000
10:57:00 AM	0.3	0.117	0.000
10:58:00 AM	0.3	0.117	0.000
10:59:00 AM	0.3	0.120	0.000
11:00:00 AM	0.3	0.119	0.000
11:01:00 AM	0.3	0.117	0.000
11:02:00 AM	0.3	0.116	0.000
11:03:00 AM	0.3	0.117	0.000
11:04:00 AM	0.3	0.117	0.000
11:05:00 AM	0.3	0.117	0.000
11:06:00 AM	0.3	0.116	0.000
11:07:00 AM	0.3	0.114	0.000
11:08:00 AM	0.3	0.114	0.000
11:09:00 AM	0.3	0.115	0.000
11:10:00 AM	0.3	0.113	0.000
11:11:00 AM	0.3	0.113	0.000
11:12:00 AM	0.3	0.116	0.000
11:13:00 AM	0.3	0.112	0.000
11:14:00 AM	0.3	0.110	0.000
11:15:00 AM	0.3	0.111	0.000
11:16:00 AM	0.3	0.110	0.000
11:17:00 AM	0.3	0.112	0.000
11:18:00 AM	0.3	0.111	0.000
11:19:00 AM	0.3	0.112	0.000
11:20:00 AM	0.3	0.112	0.000
11:21:00 AM	0.3	0.111	0.000
11:22:00 AM	0.3	0.110	0.000
11:23:00 AM	0.3	0.110	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:24:00 AM	0.3	0.110	0.000
11:25:00 AM	0.3	0.111	0.000
11:26:00 AM	0.3	0.112	0.000
11:27:00 AM	0.3	0.111	0.000
11:28:00 AM	0.3	0.110	0.000
11:29:00 AM	0.3	0.111	0.000
11:30:00 AM	0.3	0.111	0.000
11:31:00 AM	0.3	0.111	0.000
11:32:00 AM	0.3	0.110	0.000
11:33:00 AM	0.3	0.111	0.000
11:34:00 AM	0.3	0.110	0.000
11:35:00 AM	0.3	0.109	0.000
11:36:00 AM	0.3	0.108	0.000
11:37:00 AM	0.3	0.110	0.000
11:38:00 AM	0.3	0.107	0.000
11:39:00 AM	0.3	0.107	0.000
11:40:00 AM	0.3	0.105	0.000
11:41:00 AM	0.3	0.106	0.000
11:42:00 AM	0.3	0.109	0.000
11:43:00 AM	0.3	0.107	0.000
11:44:00 AM	0.3	0.105	0.000
11:45:00 AM	0.3	0.110	0.000
11:46:00 AM	0.3	0.110	0.000
11:47:00 AM	0.3	0.106	0.000
11:48:00 AM	0.3	0.104	0.000
11:49:00 AM	0.3	0.102	0.000
11:50:00 AM	0.3	0.104	0.000
11:51:00 AM	0.3	0.103	0.000
11:52:00 AM	0.3	0.102	0.000
11:53:00 AM	0.3	0.118	0.000
11:54:00 AM	0.3	0.105	0.000
11:55:00 AM	0.3	0.104	0.000
11:56:00 AM	0.3	0.104	0.000
11:57:00 AM	0.3	0.100	0.000
11:58:00 AM	0.3	0.100	0.000
11:59:00 AM	0.3	0.099	0.000
12:00:00 PM	0.3	0.097	0.000
12:01:00 PM	0.3	0.094	0.000
12:02:00 PM	0.3	0.094	0.000
12:03:00 PM	0.3	0.092	0.000
12:04:00 PM	0.3	0.090	0.000
12:05:00 PM	0.3	0.088	0.000
12:06:00 PM	0.3	0.080	0.000
12:07:00 PM	0.3	0.087	0.000
12:08:00 PM	0.3	0.099	0.000
12:09:00 PM	0.3	0.100	0.000
12:10:00 PM	0.3	0.099	0.000
12:11:00 PM	0.3	0.098	0.000
12:12:00 PM	0.3	0.096	0.000
12:13:00 PM	0.3	0.097	0.000
12:14:00 PM	0.3	0.097	0.000
12:15:00 PM	0.3	0.095	0.000
12:16:00 PM	0.3	0.090	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:17:00 PM	0.3	0.092	0.000
12:18:00 PM	0.3	0.087	0.000
12:19:00 PM	0.3	0.082	0.000
12:20:00 PM	0.3	0.074	0.000
12:21:00 PM	0.3	0.077	0.000
12:22:00 PM	0.3	0.077	0.000
12:23:00 PM	0.3	0.081	0.000
12:24:00 PM	0.3	0.078	0.000
12:25:00 PM	0.3	0.080	0.000
12:26:00 PM	0.3	0.080	0.000
12:27:00 PM	0.3	0.078	0.000
12:28:00 PM	0.3	0.075	0.000
12:29:00 PM	0.3	0.079	0.000
12:30:00 PM	0.3	0.076	0.000
12:31:00 PM	0.3	0.076	0.000
12:32:00 PM	0.3	0.076	0.000
12:33:00 PM	0.3	0.076	0.000
12:34:00 PM	0.3	0.075	0.000
12:35:00 PM	0.3	0.072	0.000
12:36:00 PM	0.3	0.070	0.000
12:37:00 PM	0.3	0.075	0.000
12:38:00 PM	0.3	0.086	0.000
12:39:00 PM	0.3	0.091	0.000
12:40:00 PM	0.3	0.095	0.000
12:41:00 PM	0.3	0.094	0.000
12:42:00 PM	0.3	0.078	0.000
12:43:00 PM	0.3	0.090	0.000
12:44:00 PM	0.3	0.081	0.000
12:45:00 PM	0.3	0.078	0.000
12:46:00 PM	0.3	0.077	0.000
12:47:00 PM	0.3	0.077	0.000
12:48:00 PM	0.3	0.087	0.000
12:49:00 PM	0.3	0.096	0.000
12:50:00 PM	0.3	0.093	0.000
12:51:00 PM	0.3	0.091	0.000
12:52:00 PM	0.3	0.097	0.000
12:53:00 PM	0.3	0.098	0.000
12:54:00 PM	0.3	0.101	0.000
12:55:00 PM	0.3	0.096	0.000
12:56:00 PM	0.3	0.095	0.000
12:57:00 PM	0.3	0.093	0.000
12:58:00 PM	0.3	0.093	0.000
12:59:00 PM	0.3	0.094	0.000
1:00:00 PM	0.3	0.093	0.000
1:01:00 PM	0.3	0.094	0.000
1:02:00 PM	0.3	0.093	0.000
1:03:00 PM	0.3	0.092	0.000
1:04:00 PM	0.3	0.091	0.000
1:05:00 PM	0.3	0.092	0.000
1:06:00 PM	0.3	0.094	0.000
1:07:00 PM	0.3	0.092	0.000
1:08:00 PM	0.3	0.092	0.000
1:09:00 PM	0.3	0.092	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:10:00 PM	0.3	0.094	0.000
1:11:00 PM	0.3	0.095	0.000
1:12:00 PM	0.3	0.101	0.000
1:13:00 PM	0.3	0.097	0.000
1:14:00 PM	0.3	0.097	0.000
1:15:00 PM	0.3	0.096	0.000
1:16:00 PM	0.3	0.097	0.000
1:17:00 PM	0.3	0.097	0.000
1:18:00 PM	0.3	0.098	0.000
1:19:00 PM	0.3	0.098	0.000
1:20:00 PM	0.3	0.097	0.000
1:21:00 PM	0.3	0.098	0.000
1:22:00 PM	0.3	0.107	0.000
1:23:00 PM	0.3	0.099	0.000
1:24:00 PM	0.3	0.098	0.000
1:25:00 PM	0.3	0.106	0.000
1:26:00 PM	0.3	0.098	0.000
1:27:00 PM	0.3	0.099	0.000
1:28:00 PM	0.3	0.098	0.000
1:29:00 PM	0.3	0.096	0.000
1:30:00 PM	0.3	0.097	0.000
1:31:00 PM	0.3	0.097	0.000
1:32:00 PM	0.3	0.097	0.000
1:33:00 PM	0.3	0.098	0.000
1:34:00 PM	0.3	0.098	0.000
1:35:00 PM	0.3	0.097	0.000
1:36:00 PM	0.3	0.097	0.000
1:37:00 PM	0.3	0.096	0.000
1:38:00 PM	0.3	0.096	0.000
1:39:00 PM	0.3	0.095	0.000
1:40:00 PM	0.3	0.095	0.000
1:41:00 PM	0.3	0.095	0.000
1:42:00 PM	0.3	0.095	0.000
1:43:00 PM	0.3	0.095	0.000
1:44:00 PM	0.3	0.096	0.000
1:45:00 PM	0.3	0.095	0.000
1:46:00 PM	0.3	0.095	0.000
1:47:00 PM	0.3	0.094	0.000
1:48:00 PM	0.3	0.093	0.000
1:49:00 PM	0.3	0.093	0.000
1:50:00 PM	0.3	0.093	0.000
1:51:00 PM	0.3	0.094	0.000
1:52:00 PM	0.3	0.094	0.000
1:53:00 PM	0.3	0.093	0.000
1:54:00 PM	0.3	0.094	0.000
1:55:00 PM	0.3	0.094	0.000
1:56:00 PM	0.3	0.094	0.000
1:57:00 PM	0.3	0.094	0.000
1:58:00 PM	0.3	0.095	0.000
1:59:00 PM	0.3	0.096	0.000
2:00:00 PM	0.3	0.097	0.000
2:01:00 PM	0.3	0.095	0.000
2:02:00 PM	0.3	0.096	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 14, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:03:00 PM	0.3	0.096	0.000
2:04:00 PM	0.3	0.095	0.000
2:05:00 PM	0.3	0.094	0.000
2:06:00 PM	0.3	0.094	0.000
2:07:00 PM	0.3	0.095	0.000
2:08:00 PM	0.3	0.095	0.000
2:09:00 PM	0.3	0.095	0.000
2:10:00 PM	0.3	0.095	0.000
2:11:00 PM	0.3	0.095	0.000
2:12:00 PM	0.3	0.094	0.000
2:13:00 PM	0.3	0.094	0.000
2:14:00 PM	0.3	0.094	0.000
2:15:00 PM	0.3	0.097	0.000
2:16:00 PM	0.3	0.097	0.000
2:17:00 PM	0.3	0.094	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~10 mph	Date:	1/15/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15. Aarco loading out remaining soils for disposal at Clean Earth. Aarco setting all digging box panels and components within excavation covering the same with structural supports and plywood. Aarco demobilizing from the site due to work cancelation for the following week. Aarco loading up all equipment, securing fencing and the substation.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- None



Aarco loading out remaining soils for transport to Clean Earth.



Aarco placing equipment into the excavation for storage.

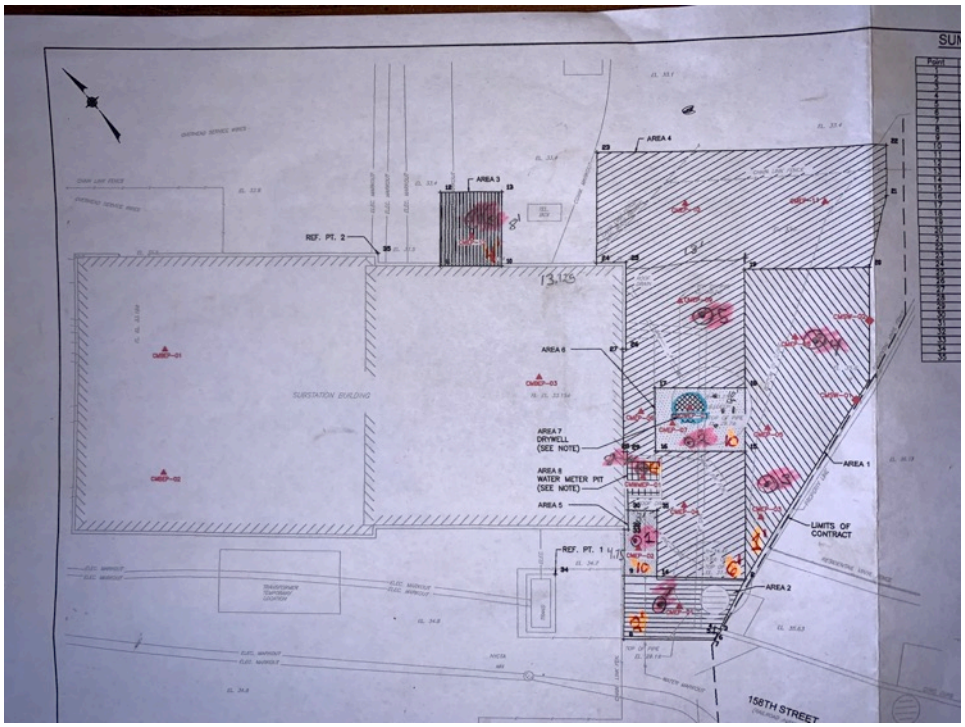


Aarco loading up debris for disposal.



View of excavation secured for work stoppage.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 14 mph	Date:	1/27/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 10:30 am. Aarco mobilizing backhoe and mini excavator and removing protections and digging box panels from the excavation. Paul J Petretti Surveyor's were onsite to survey endpoint sample locations and mark out excavation areas. Aarco continues excavating soils to a maximum depth of six (6) feet bgs in area #4. Preferred is field screening all excavated soils for the presence of VOC's and Mercury Vapor. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high-risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.018	0.000	0.0	0.023	0.000
Down Wind	0.2	0.019	0.000	0.3	0.026	0.000
Work Zone	0.2	0.018	0.000	0.3	0.033	0.000

Exceedances (Since Last Report): None

Problems Encountered: Downwind particulate monitor not reporting till 10:21 due to loose cable.

Planned Activities for the Next Day/ Week:

- Aarco will continue to excavate soils from area #4.



View marked out excavation areas by surveyors.



Aarco removing digging box panels from excavation.



Aarco continues excavating soils from area #4.



Preferred field screening excavated soils.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:27:00 AM	0.0		0.000
9:28:00 AM	0.0	0.035	0.000
9:29:00 AM	0.0	0.016	0.000
9:30:00 AM	0.0	0.017	0.000
9:31:00 AM	0.0	0.015	0.000
9:32:00 AM	0.0	0.015	0.000
9:33:00 AM	0.0	0.015	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.0	0.016	0.000
9:36:00 AM	0.0	0.015	0.000
9:37:00 AM	0.0	0.015	0.000
9:38:00 AM	0.0	0.014	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.014	0.000
9:41:00 AM	0.0	0.016	0.000
9:42:00 AM	0.0	0.019	0.000
9:43:00 AM	0.0	0.016	0.000
9:44:00 AM	0.0	0.014	0.000
9:45:00 AM	0.0	0.014	0.000
9:46:00 AM	0.0	0.014	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.014	0.000
9:49:00 AM	0.0	0.015	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.015	0.000
9:52:00 AM	0.0	0.016	0.000
9:53:00 AM	0.0	0.015	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.015	0.000
9:56:00 AM	0.0	0.015	0.000
9:57:00 AM	0.0	0.016	0.000
9:58:00 AM	0.0	0.016	0.000
9:59:00 AM	0.0	0.017	0.000
10:00:00 AM	0.0	0.017	0.000
10:01:00 AM	0.0	0.016	0.000
10:02:00 AM	0.0	0.016	0.000
10:03:00 AM	0.0	0.016	0.000
10:04:00 AM	0.0	0.016	0.000
10:05:00 AM	0.0	0.015	0.000
10:06:00 AM	0.0	0.015	0.000
10:07:00 AM	0.0	0.015	0.000
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.015	0.000
10:10:00 AM	0.0	0.014	0.000
10:11:00 AM	0.0	0.013	0.000
10:12:00 AM	0.0	0.014	0.000
10:13:00 AM	0.0	0.013	0.000
10:14:00 AM	0.0	0.013	0.000
10:15:00 AM	0.0	0.013	0.000
10:16:00 AM	0.0	0.013	0.000
10:17:00 AM	0.0	0.014	0.000
10:18:00 AM	0.0	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:19:00 AM	0.0	0.014	0.000
10:20:00 AM	0.0	0.014	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.014	0.000
10:23:00 AM	0.0	0.014	0.000
10:24:00 AM	0.0	0.015	0.000
10:25:00 AM	0.0	0.015	0.000
10:26:00 AM	0.0	0.015	0.000
10:27:00 AM	0.0	0.015	0.000
10:28:00 AM	0.0	0.015	0.000
10:29:00 AM	0.0	0.014	0.000
10:30:00 AM	0.0	0.014	0.000
10:31:00 AM	0.0	0.014	0.000
10:32:00 AM	0.0	0.013	0.000
10:33:00 AM	0.0	0.013	0.000
10:34:00 AM	0.0	0.014	0.000
10:35:00 AM	0.0	0.013	0.000
10:36:00 AM	0.0	0.013	0.000
10:37:00 AM	0.0	0.014	0.000
10:38:00 AM	0.0	0.015	0.000
10:39:00 AM	0.0	0.015	0.000
10:40:00 AM	0.0	0.015	0.000
10:41:00 AM	0.0	0.015	0.000
10:42:00 AM	0.0	0.015	0.000
10:43:00 AM	0.0	0.017	0.000
10:44:00 AM	0.0	0.014	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.015	0.000
10:47:00 AM	0.0	0.015	0.000
10:48:00 AM	0.0	0.015	0.000
10:49:00 AM	0.0	0.016	0.000
10:50:00 AM	0.0	0.015	0.000
10:51:00 AM	0.0	0.014	0.000
10:52:00 AM	0.0	0.014	0.000
10:53:00 AM	0.0	0.015	0.000
10:54:00 AM	0.0	0.014	0.000
10:55:00 AM	0.0	0.015	0.000
10:56:00 AM	0.0	0.015	0.000
10:57:00 AM	0.0	0.015	0.000
10:58:00 AM	0.0	0.015	0.000
10:59:00 AM	0.0	0.016	0.000
11:00:00 AM	0.0	0.016	0.000
11:01:00 AM	0.0	0.017	0.000
11:02:00 AM	0.0	0.016	0.000
11:03:00 AM	0.0	0.017	0.000
11:04:00 AM	0.0	0.017	0.000
11:05:00 AM	0.0	0.017	0.000
11:06:00 AM	0.0	0.016	0.000
11:07:00 AM	0.0	0.017	0.000
11:08:00 AM	0.0	0.016	0.000
11:09:00 AM	0.0	0.016	0.000
11:10:00 AM	0.0	0.016	0.000
11:11:00 AM	0.0	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:12:00 AM	0.0	0.018	0.000
11:13:00 AM	0.0	0.020	0.000
11:14:00 AM	0.0	0.028	0.000
11:15:00 AM	0.0	0.018	0.000
11:16:00 AM	0.0	0.025	0.000
11:17:00 AM	0.0	0.025	0.000
11:18:00 AM	0.0	0.018	0.000
11:19:00 AM	0.0	0.018	0.000
11:20:00 AM	0.0	0.019	0.000
11:21:00 AM	0.0	0.019	0.000
11:22:00 AM	0.0	0.017	0.000
11:23:00 AM	0.0	0.016	0.000
11:24:00 AM	0.0	0.015	0.000
11:25:00 AM	0.0	0.015	0.000
11:26:00 AM	0.0	0.016	0.000
11:27:00 AM	0.0	0.016	0.000
11:28:00 AM	0.0	0.017	0.000
11:29:00 AM	0.0	0.018	0.000
11:30:00 AM	0.0	0.018	0.000
11:31:00 AM	0.0	0.018	0.000
11:32:00 AM	0.0	0.017	0.000
11:33:00 AM	0.0	0.017	0.000
11:34:00 AM	0.0	0.017	0.000
11:35:00 AM	0.0	0.018	0.000
11:36:00 AM	0.0	0.017	0.000
11:37:00 AM	0.0	0.016	0.000
11:38:00 AM	0.0	0.016	0.000
11:39:00 AM	0.0	0.016	0.000
11:40:00 AM	0.0	0.016	0.000
11:41:00 AM	0.0	0.016	0.000
11:42:00 AM	0.0	0.016	0.000
11:43:00 AM	0.0	0.015	0.000
11:44:00 AM	0.0	0.016	0.000
11:45:00 AM	0.0	0.016	0.000
11:46:00 AM	0.0	0.016	0.000
11:47:00 AM	0.0	0.017	0.000
11:48:00 AM	0.0	0.017	0.000
11:49:00 AM	0.0	0.017	0.000
11:50:00 AM	0.0	0.018	0.000
11:51:00 AM	0.0	0.017	0.000
11:52:00 AM	0.0	0.017	0.000
11:53:00 AM	0.0	0.018	0.000
11:54:00 AM	0.0	0.017	0.000
11:55:00 AM	0.0	0.017	0.000
11:56:00 AM	0.0	0.017	0.000
11:57:00 AM	0.0	0.018	0.000
11:58:00 AM	0.0	0.035	0.000
11:59:00 AM	0.0	0.023	0.000
12:00:00 PM	0.0	0.018	0.000
12:01:00 PM	0.0	0.017	0.000
12:02:00 PM	0.0	0.017	0.000
12:03:00 PM	0.0	0.018	0.000
12:04:00 PM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:05:00 PM	0.0	0.018	0.000
12:06:00 PM	0.0	0.019	0.000
12:07:00 PM	0.0	0.019	0.000
12:08:00 PM	0.0	0.019	0.000
12:09:00 PM	0.0	0.020	0.000
12:10:00 PM	0.0	0.021	0.000
12:11:00 PM	0.0	0.020	0.000
12:12:00 PM	0.0	0.020	0.000
12:13:00 PM	0.0	0.019	0.000
12:14:00 PM	0.0	0.018	0.000
12:15:00 PM	0.0	0.019	0.000
12:16:00 PM	0.0	0.018	0.000
12:17:00 PM	0.0	0.019	0.000
12:18:00 PM	0.0	0.020	0.000
12:19:00 PM	0.0	0.019	0.000
12:20:00 PM	0.0	0.019	0.000
12:21:00 PM	0.0	0.019	0.000
12:22:00 PM	0.0	0.020	0.000
12:23:00 PM	0.0	0.020	0.000
12:24:00 PM	0.0	0.020	0.000
12:25:00 PM	0.0	0.021	0.000
12:26:00 PM	0.0	0.021	0.000
12:27:00 PM	0.0	0.020	0.000
12:28:00 PM	0.0	0.020	0.000
12:29:00 PM	0.0	0.019	0.000
12:30:00 PM	0.0	0.018	0.000
12:31:00 PM	0.0	0.019	0.000
12:32:00 PM	0.0	0.019	0.000
12:33:00 PM	0.0	0.019	0.000
12:34:00 PM	0.0	0.019	0.000
12:35:00 PM	0.0	0.020	0.000
12:36:00 PM	0.0	0.020	0.000
12:37:00 PM	0.0	0.020	0.000
12:38:00 PM	0.0	0.020	0.000
12:39:00 PM	0.0	0.019	0.000
12:40:00 PM	0.0	0.019	0.000
12:41:00 PM	0.0	0.019	0.000
12:42:00 PM	0.0	0.021	0.000
12:43:00 PM	0.0	0.021	0.000
12:44:00 PM	0.0	0.021	0.000
12:45:00 PM	0.0	0.021	0.000
12:46:00 PM	0.0	0.021	0.000
12:47:00 PM	0.0	0.021	0.000
12:48:00 PM	0.0	0.022	0.000
12:49:00 PM	0.0	0.022	0.000
12:50:00 PM	0.0	0.021	0.000
12:51:00 PM	0.0	0.021	0.000
12:52:00 PM	0.0	0.021	0.000
12:53:00 PM	0.0	0.021	0.000
12:54:00 PM	0.0	0.022	0.000
12:55:00 PM	0.0	0.023	0.000
12:56:00 PM	0.0	0.022	0.000
12:57:00 PM	0.0	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:58:00 PM	0.0	0.022	0.000
12:59:00 PM	0.0	0.020	0.000
1:00:00 PM	0.0	0.022	0.000
1:01:00 PM	0.0	0.021	0.000
1:02:00 PM	0.0	0.022	0.000
1:03:00 PM	0.0	0.021	0.000
1:04:00 PM	0.0	0.021	0.000
1:05:00 PM	0.0	0.021	0.000
1:06:00 PM	0.0	0.021	0.000
1:07:00 PM	0.0	0.021	0.000
1:08:00 PM	0.0	0.021	0.000
1:09:00 PM	0.0	0.022	0.000
1:10:00 PM	0.0	0.021	0.000
1:11:00 PM	0.0	0.021	0.000
1:12:00 PM	0.0	0.022	0.000
1:13:00 PM	0.0	0.024	0.000
1:14:00 PM	0.0	0.022	0.000
1:15:00 PM	0.0	0.023	0.000
1:16:00 PM	0.0	0.021	0.000
1:17:00 PM	0.0	0.021	0.000
1:18:00 PM	0.0	0.022	0.000
1:19:00 PM	0.0	0.023	0.000
1:20:00 PM	0.0	0.023	0.000
1:21:00 PM	0.0	0.022	0.000
1:22:00 PM	0.0	0.022	0.000
1:23:00 PM	0.0	0.022	0.000
1:24:00 PM	0.0	0.023	0.000
1:25:00 PM	0.0	0.023	0.000
1:26:00 PM	0.0	0.022	0.000
1:27:00 PM	0.0	0.021	0.000
1:28:00 PM	0.0	0.021	0.000
1:29:00 PM	0.0	0.020	0.000
1:30:00 PM	0.0	0.021	0.000
1:31:00 PM	0.0	0.022	0.000
1:32:00 PM	0.0	0.022	0.000
1:33:00 PM	0.0	0.021	0.000
1:34:00 PM	0.0	0.019	0.000
1:35:00 PM	0.0	0.021	0.000
1:36:00 PM	0.0	0.021	0.000
1:37:00 PM	0.0	0.021	0.000
1:38:00 PM	0.0	0.021	0.000
1:39:00 PM	0.0	0.020	0.000
1:40:00 PM	0.0	0.021	0.000
1:41:00 PM	0.0	0.022	0.000
1:42:00 PM	0.0	0.023	0.000
1:43:00 PM	0.0	0.025	0.000
1:44:00 PM	0.0	0.022	0.000
1:45:00 PM	0.0	0.023	0.000
1:46:00 PM	0.0	0.024	0.000
1:47:00 PM	0.0	0.023	0.000
1:48:00 PM	0.0	0.023	0.000
1:49:00 PM	0.0	0.023	0.000
1:50:00 PM	0.0	0.025	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:51:00 PM	0.0	0.024	0.000
1:52:00 PM	0.0	0.023	0.000
1:53:00 PM	0.0	0.023	0.000
1:54:00 PM	0.0	0.023	0.000
1:55:00 PM	0.0	0.022	0.000
1:56:00 PM	0.0	0.021	0.000
1:57:00 PM	0.0	0.021	0.000
1:58:00 PM	0.0	0.019	0.000
1:59:00 PM	0.0	0.019	0.000
2:00:00 PM	0.0	0.019	0.000
2:01:00 PM	0.1	0.024	0.000
2:02:00 PM	0.0	0.021	0.000
2:03:00 PM	0.0	0.020	0.000
2:04:00 PM	0.0	0.020	0.000
2:05:00 PM	0.0	0.020	0.000
2:06:00 PM	0.0	0.019	0.000
2:07:00 PM	0.0	0.019	0.000
2:08:00 PM	0.0	0.019	0.000
2:09:00 PM	0.0	0.020	0.000
2:10:00 PM	0.0	0.021	0.000
2:11:00 PM	0.0	0.022	0.000
2:12:00 PM	0.0	0.022	0.000
2:13:00 PM	0.0	0.022	0.000
2:14:00 PM	0.0	0.021	0.000
2:15:00 PM	0.0	0.022	0.000
2:16:00 PM	0.0	0.021	0.000
2:17:00 PM	0.0	0.020	0.000
2:18:00 PM	0.0	0.020	0.000
2:19:00 PM	0.0	0.021	0.000
2:20:00 PM	0.0	0.020	0.000
2:21:00 PM	0.1	0.020	0.000
2:22:00 PM	0.0	0.020	0.000
2:23:00 PM	0.0	0.021	0.000
2:24:00 PM	0.1	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:31:00 AM	0.0		0.000
9:32:00 AM	0.0		0.000
9:33:00 AM	0.0		0.000
9:34:00 AM	0.0		0.000
9:35:00 AM	0.0		0.000
9:36:00 AM	0.0		0.000
9:37:00 AM	0.0		0.000
9:38:00 AM	0.0		0.000
9:39:00 AM	0.0		0.000
9:40:00 AM	0.0		0.000
9:41:00 AM	0.0		0.000
9:42:00 AM	0.0		0.000
9:43:00 AM	0.0		0.000
9:44:00 AM	0.0		0.000
9:45:00 AM	0.0		0.000
9:46:00 AM	0.1		0.000
9:47:00 AM	0.1		0.000
9:48:00 AM	0.1		0.000
9:49:00 AM	0.1		0.000
9:50:00 AM	0.1		0.000
9:51:00 AM	0.1		0.000
9:52:00 AM	0.1		0.000
9:53:00 AM	0.1		0.000
9:54:00 AM	0.1		0.000
9:55:00 AM	0.1		0.000
9:56:00 AM	0.1		0.000
9:57:00 AM	0.1		0.000
9:58:00 AM	0.1		0.000
9:59:00 AM	0.1		0.000
10:00:00 AM	0.1		0.000
10:01:00 AM	0.1		0.000
10:02:00 AM	0.1		0.000
10:03:00 AM	0.1		0.000
10:04:00 AM	0.1		0.000
10:05:00 AM	0.1		0.000
10:06:00 AM	0.1		0.000
10:07:00 AM	0.1		0.000
10:08:00 AM	0.1		0.000
10:09:00 AM	0.1		0.000
10:10:00 AM	0.1		0.000
10:11:00 AM	0.1		0.000
10:12:00 AM	0.1		0.000
10:13:00 AM	0.1		0.000
10:14:00 AM	0.1		0.000
10:15:00 AM	0.1		0.000
10:16:00 AM	0.1		0.000
10:17:00 AM	0.1		0.000
10:18:00 AM	0.2		0.000
10:19:00 AM	0.2		0.000
10:20:00 AM	0.2		0.000
10:21:00 AM	0.2	0.033	0.000
10:22:00 AM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:23:00 AM	0.2	0.013	0.000
10:24:00 AM	0.2	0.014	0.000
10:25:00 AM	0.2	0.014	0.000
10:26:00 AM	0.2	0.014	0.000
10:27:00 AM	0.2	0.014	0.000
10:28:00 AM	0.2	0.014	0.000
10:29:00 AM	0.2	0.014	0.000
10:30:00 AM	0.2	0.014	0.000
10:31:00 AM	0.2	0.013	0.000
10:32:00 AM	0.2	0.013	0.000
10:33:00 AM	0.2	0.012	0.000
10:34:00 AM	0.2	0.013	0.000
10:35:00 AM	0.2	0.013	0.000
10:36:00 AM	0.2	0.013	0.000
10:37:00 AM	0.2	0.013	0.000
10:38:00 AM	0.2	0.014	0.000
10:39:00 AM	0.2	0.014	0.000
10:40:00 AM	0.2	0.015	0.000
10:41:00 AM	0.2	0.014	0.000
10:42:00 AM	0.2	0.014	0.000
10:43:00 AM	0.2	0.014	0.000
10:44:00 AM	0.2	0.013	0.000
10:45:00 AM	0.2	0.013	0.000
10:46:00 AM	0.2	0.014	0.000
10:47:00 AM	0.2	0.014	0.000
10:48:00 AM	0.2	0.014	0.000
10:49:00 AM	0.2	0.014	0.000
10:50:00 AM	0.2	0.014	0.000
10:51:00 AM	0.2	0.013	0.000
10:52:00 AM	0.2	0.013	0.000
10:53:00 AM	0.2	0.013	0.000
10:54:00 AM	0.2	0.013	0.000
10:55:00 AM	0.2	0.014	0.000
10:56:00 AM	0.3	0.014	0.000
10:57:00 AM	0.2	0.014	0.000
10:58:00 AM	0.2	0.014	0.000
10:59:00 AM	0.2	0.015	0.000
11:00:00 AM	0.3	0.015	0.000
11:01:00 AM	0.3	0.015	0.000
11:02:00 AM	0.2	0.015	0.000
11:03:00 AM	0.3	0.016	0.000
11:04:00 AM	0.3	0.015	0.000
11:05:00 AM	0.2	0.016	0.000
11:06:00 AM	0.2	0.015	0.000
11:07:00 AM	0.3	0.015	0.000
11:08:00 AM	0.3	0.015	0.000
11:09:00 AM	0.3	0.014	0.000
11:10:00 AM	0.3	0.015	0.000
11:11:00 AM	0.2	0.015	0.000
11:12:00 AM	0.3	0.015	0.000
11:13:00 AM	0.2	0.015	0.000
11:14:00 AM	0.2	0.016	0.000
11:15:00 AM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:16:00 AM	0.2	0.016	0.000
11:17:00 AM	0.2	0.017	0.000
11:18:00 AM	0.2	0.016	0.000
11:19:00 AM	0.2	0.016	0.000
11:20:00 AM	0.2	0.016	0.000
11:21:00 AM	0.2	0.016	0.000
11:22:00 AM	0.2	0.015	0.000
11:23:00 AM	0.2	0.015	0.000
11:24:00 AM	0.2	0.015	0.000
11:25:00 AM	0.2	0.014	0.000
11:26:00 AM	0.2	0.014	0.000
11:27:00 AM	0.2	0.015	0.000
11:28:00 AM	0.2	0.016	0.000
11:29:00 AM	0.2	0.016	0.000
11:30:00 AM	0.2	0.017	0.000
11:31:00 AM	0.2	0.017	0.000
11:32:00 AM	0.2	0.016	0.000
11:33:00 AM	0.2	0.016	0.000
11:34:00 AM	0.2	0.016	0.000
11:35:00 AM	0.2	0.015	0.000
11:36:00 AM	0.2	0.015	0.000
11:37:00 AM	0.2	0.015	0.000
11:38:00 AM	0.2	0.015	0.000
11:39:00 AM	0.2	0.015	0.000
11:40:00 AM	0.2	0.015	0.000
11:41:00 AM	0.2	0.015	0.000
11:42:00 AM	0.2	0.015	0.000
11:43:00 AM	0.2	0.014	0.000
11:44:00 AM	0.2	0.014	0.000
11:45:00 AM	0.2	0.015	0.000
11:46:00 AM	0.2	0.015	0.000
11:47:00 AM	0.2	0.015	0.000
11:48:00 AM	0.2	0.016	0.000
11:49:00 AM	0.2	0.015	0.000
11:50:00 AM	0.2	0.017	0.000
11:51:00 AM	0.2	0.016	0.000
11:52:00 AM	0.2	0.016	0.000
11:53:00 AM	0.2	0.016	0.000
11:54:00 AM	0.2	0.016	0.000
11:55:00 AM	0.2	0.016	0.000
11:56:00 AM	0.2	0.016	0.000
11:57:00 AM	0.2	0.016	0.000
11:58:00 AM	0.2	0.020	0.000
11:59:00 AM	0.2	0.019	0.000
12:00:00 PM	0.2	0.016	0.000
12:01:00 PM	0.2	0.016	0.000
12:02:00 PM	0.2	0.016	0.000
12:03:00 PM	0.2	0.017	0.000
12:04:00 PM	0.2	0.018	0.000
12:05:00 PM	0.2	0.019	0.000
12:06:00 PM	0.2	0.017	0.000
12:07:00 PM	0.2	0.018	0.000
12:08:00 PM	0.2	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:09:00 PM	0.2	0.019	0.000
12:10:00 PM	0.2	0.021	0.000
12:11:00 PM	0.2	0.019	0.000
12:12:00 PM	0.2	0.019	0.000
12:13:00 PM	0.2	0.020	0.000
12:14:00 PM	0.2	0.020	0.000
12:15:00 PM	0.2	0.019	0.000
12:16:00 PM	0.2	0.020	0.000
12:17:00 PM	0.2	0.019	0.000
12:18:00 PM	0.2	0.018	0.000
12:19:00 PM	0.2	0.018	0.000
12:20:00 PM	0.2	0.018	0.000
12:21:00 PM	0.2	0.018	0.000
12:22:00 PM	0.2	0.018	0.000
12:23:00 PM	0.2	0.019	0.000
12:24:00 PM	0.2	0.018	0.000
12:25:00 PM	0.2	0.019	0.000
12:26:00 PM	0.2	0.018	0.000
12:27:00 PM	0.2	0.018	0.000
12:28:00 PM	0.2	0.018	0.000
12:29:00 PM	0.2	0.017	0.000
12:30:00 PM	0.2	0.018	0.000
12:31:00 PM	0.2	0.019	0.000
12:32:00 PM	0.2	0.018	0.000
12:33:00 PM	0.2	0.018	0.000
12:34:00 PM	0.2	0.018	0.000
12:35:00 PM	0.2	0.019	0.000
12:36:00 PM	0.2	0.019	0.000
12:37:00 PM	0.2	0.019	0.000
12:38:00 PM	0.2	0.018	0.000
12:39:00 PM	0.2	0.018	0.000
12:40:00 PM	0.2	0.018	0.000
12:41:00 PM	0.2	0.018	0.000
12:42:00 PM	0.2	0.019	0.000
12:43:00 PM	0.2	0.022	0.000
12:44:00 PM	0.2	0.020	0.000
12:45:00 PM	0.2	0.020	0.000
12:46:00 PM	0.2	0.019	0.000
12:47:00 PM	0.2	0.020	0.000
12:48:00 PM	0.2	0.020	0.000
12:49:00 PM	0.3	0.022	0.000
12:50:00 PM	0.2	0.021	0.000
12:51:00 PM	0.2	0.022	0.000
12:52:00 PM	0.2	0.023	0.000
12:53:00 PM	0.2	0.020	0.000
12:54:00 PM	0.3	0.022	0.000
12:55:00 PM	0.3	0.024	0.000
12:56:00 PM	0.2	0.022	0.000
12:57:00 PM	0.2	0.022	0.000
12:58:00 PM	0.2	0.022	0.000
12:59:00 PM	0.2	0.021	0.000
1:00:00 PM	0.2	0.023	0.000
1:01:00 PM	0.2	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:02:00 PM	0.2	0.022	0.000
1:03:00 PM	0.2	0.020	0.000
1:04:00 PM	0.2	0.022	0.000
1:05:00 PM	0.2	0.024	0.000
1:06:00 PM	0.2	0.020	0.000
1:07:00 PM	0.2	0.021	0.000
1:08:00 PM	0.2	0.022	0.000
1:09:00 PM	0.2	0.023	0.000
1:10:00 PM	0.2	0.023	0.000
1:11:00 PM	0.2	0.021	0.000
1:12:00 PM	0.2	0.020	0.000
1:13:00 PM	0.2	0.023	0.000
1:14:00 PM	0.2	0.023	0.000
1:15:00 PM	0.2	0.021	0.000
1:16:00 PM	0.2	0.021	0.000
1:17:00 PM	0.2	0.021	0.000
1:18:00 PM	0.2	0.022	0.000
1:19:00 PM	0.2	0.021	0.000
1:20:00 PM	0.2	0.024	0.000
1:21:00 PM	0.2	0.020	0.000
1:22:00 PM	0.2	0.021	0.000
1:23:00 PM	0.2	0.021	0.000
1:24:00 PM	0.2	0.022	0.000
1:25:00 PM	0.2	0.021	0.000
1:26:00 PM	0.2	0.021	0.000
1:27:00 PM	0.2	0.025	0.000
1:28:00 PM	0.2	0.022	0.000
1:29:00 PM	0.2	0.019	0.000
1:30:00 PM	0.2	0.021	0.000
1:31:00 PM	0.2	0.021	0.000
1:32:00 PM	0.2	0.021	0.000
1:33:00 PM	0.2	0.021	0.000
1:34:00 PM	0.2	0.019	0.000
1:35:00 PM	0.2	0.019	0.000
1:36:00 PM	0.2	0.020	0.000
1:37:00 PM	0.2	0.021	0.000
1:38:00 PM	0.2	0.018	0.000
1:39:00 PM	0.2	0.020	0.000
1:40:00 PM	0.2	0.022	0.000
1:41:00 PM	0.2	0.024	0.000
1:42:00 PM	0.2	0.022	0.000
1:43:00 PM	0.2	0.024	0.000
1:44:00 PM	0.2	0.021	0.000
1:45:00 PM	0.2	0.023	0.000
1:46:00 PM	0.2	0.022	0.000
1:47:00 PM	0.2	0.021	0.000
1:48:00 PM	0.2	0.021	0.000
1:49:00 PM	0.2	0.021	0.000
1:50:00 PM	0.2	0.023	0.000
1:51:00 PM	0.2	0.022	0.000
1:52:00 PM	0.2	0.021	0.000
1:53:00 PM	0.2	0.021	0.000
1:54:00 PM	0.2	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:55:00 PM	0.2	0.020	0.000
1:56:00 PM	0.2	0.020	0.000
1:57:00 PM	0.2	0.020	0.000
1:58:00 PM	0.2	0.019	0.000
1:59:00 PM	0.2	0.018	0.000
2:00:00 PM	0.2	0.018	0.000
2:01:00 PM	0.2	0.021	0.000
2:02:00 PM	0.2	0.023	0.000
2:03:00 PM	0.2	0.019	0.000
2:04:00 PM	0.2	0.020	0.000
2:05:00 PM	0.2	0.019	0.000
2:06:00 PM	0.2	0.019	0.000
2:07:00 PM	0.2	0.018	0.000
2:08:00 PM	0.2	0.018	0.000
2:09:00 PM	0.2	0.019	0.000
2:10:00 PM	0.2	0.019	0.000
2:11:00 PM	0.2	0.019	0.000
2:12:00 PM	0.2	0.020	0.000
2:13:00 PM	0.2	0.021	0.000
2:14:00 PM	0.2	0.022	0.000
2:15:00 PM	0.2	0.021	0.000
2:16:00 PM	0.2	0.019	0.000
2:17:00 PM	0.2	0.019	0.000
2:18:00 PM	0.2	0.019	0.000
2:19:00 PM	0.2	0.020	0.000
2:20:00 PM	0.2	0.019	0.000
2:21:00 PM	0.2	0.018	0.000
2:22:00 PM	0.2	0.018	0.000
2:23:00 PM	0.2	0.019	0.000
2:24:00 PM	0.2	0.018	0.000
2:25:00 PM	0.2	0.019	0.000
2:26:00 PM	0.2	0.019	0.000
2:27:00 PM	0.2	0.020	0.000
2:28:00 PM	0.2	0.020	0.000
2:29:00 PM	0.2	0.020	0.000
2:30:00 PM	0.2	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:55:00 AM	0.0	0.025	0.000
9:56:00 AM	0.0	0.019	0.000
9:57:00 AM	0.0	0.020	0.000
9:58:00 AM	0.0	0.019	0.000
9:59:00 AM	0.0	0.020	0.000
10:00:00 AM	0.0	0.020	0.000
10:01:00 AM	0.0	0.018	0.000
10:02:00 AM	0.0	0.018	0.000
10:03:00 AM	0.0	0.018	0.000
10:04:00 AM	0.0	0.018	0.000
10:05:00 AM	0.0	0.017	0.000
10:06:00 AM	0.0	0.016	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.016	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.016	0.000
10:11:00 AM	0.0	0.016	0.000
10:12:00 AM	0.0	0.016	0.000
10:13:00 AM	0.0	0.015	0.000
10:14:00 AM	0.0	0.015	0.000
10:15:00 AM	0.0	0.015	0.000
10:16:00 AM	0.0	0.015	0.000
10:17:00 AM	0.0	0.015	0.000
10:18:00 AM	0.0	0.015	0.000
10:19:00 AM	0.0	0.015	0.000
10:20:00 AM	0.1	0.015	0.000
10:21:00 AM	0.1	0.015	0.000
10:22:00 AM	0.1	0.015	0.000
10:23:00 AM	0.1	0.015	0.000
10:24:00 AM	0.1	0.017	0.000
10:25:00 AM	0.1	0.020	0.000
10:26:00 AM	0.1	0.018	0.000
10:27:00 AM	0.1	0.017	0.000
10:28:00 AM	0.1	0.017	0.000
10:29:00 AM	0.1	0.016	0.000
10:30:00 AM	0.1	0.015	0.000
10:31:00 AM	0.1	0.015	0.000
10:32:00 AM	0.1	0.013	0.000
10:33:00 AM	0.1	0.013	0.000
10:34:00 AM	0.1	0.014	0.000
10:35:00 AM	0.1	0.015	0.000
10:36:00 AM	0.1	0.015	0.000
10:37:00 AM	0.1	0.016	0.000
10:38:00 AM	0.1	0.016	0.000
10:39:00 AM	0.1	0.016	0.000
10:40:00 AM	0.1	0.016	0.000
10:41:00 AM	0.1	0.016	0.000
10:42:00 AM	0.1	0.016	0.000
10:43:00 AM	0.1	0.015	0.000
10:44:00 AM	0.1	0.014	0.000
10:45:00 AM	0.1	0.014	0.000
10:46:00 AM	0.1	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:47:00 AM	0.1	0.016	0.000
10:48:00 AM	0.1	0.015	0.000
10:49:00 AM	0.1	0.015	0.000
10:50:00 AM	0.1	0.015	0.000
10:51:00 AM	0.1	0.013	0.000
10:52:00 AM	0.1	0.014	0.000
10:53:00 AM	0.1	0.014	0.000
10:54:00 AM	0.1	0.014	0.000
10:55:00 AM	0.1	0.014	0.000
10:56:00 AM	0.1	0.015	0.000
10:57:00 AM	0.2	0.015	0.000
10:58:00 AM	0.2	0.016	0.000
10:59:00 AM	0.2	0.016	0.000
11:00:00 AM	0.2	0.016	0.000
11:01:00 AM	0.2	0.017	0.000
11:02:00 AM	0.2	0.017	0.000
11:03:00 AM	0.2	0.018	0.000
11:04:00 AM	0.2	0.017	0.000
11:05:00 AM	0.2	0.018	0.000
11:06:00 AM	0.2	0.017	0.000
11:07:00 AM	0.2	0.017	0.000
11:08:00 AM	0.2	0.019	0.000
11:09:00 AM	0.2	0.016	0.000
11:10:00 AM	0.2	0.017	0.000
11:11:00 AM	0.2	0.017	0.000
11:12:00 AM	0.2	0.017	0.000
11:13:00 AM	0.2	0.017	0.000
11:14:00 AM	0.2	0.018	0.000
11:15:00 AM	0.2	0.018	0.000
11:16:00 AM	0.2	0.018	0.000
11:17:00 AM	0.2	0.019	0.000
11:18:00 AM	0.2	0.018	0.000
11:19:00 AM	0.2	0.017	0.000
11:20:00 AM	0.2	0.017	0.000
11:21:00 AM	0.2	0.017	0.000
11:22:00 AM	0.2	0.016	0.000
11:23:00 AM	0.2	0.015	0.000
11:24:00 AM	0.2	0.015	0.000
11:25:00 AM	0.2	0.015	0.000
11:26:00 AM	0.2	0.016	0.000
11:27:00 AM	0.2	0.018	0.000
11:28:00 AM	0.2	0.018	0.000
11:29:00 AM	0.2	0.017	0.000
11:30:00 AM	0.2	0.018	0.000
11:31:00 AM	0.2	0.018	0.000
11:32:00 AM	0.2	0.017	0.000
11:33:00 AM	0.2	0.017	0.000
11:34:00 AM	0.2	0.017	0.000
11:35:00 AM	0.2	0.016	0.000
11:36:00 AM	0.2	0.017	0.000
11:37:00 AM	0.2	0.017	0.000
11:38:00 AM	0.2	0.017	0.000
11:39:00 AM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:40:00 AM	0.2	0.017	0.000
11:41:00 AM	0.2	0.016	0.000
11:42:00 AM	0.2	0.016	0.000
11:43:00 AM	0.2	0.016	0.000
11:44:00 AM	0.2	0.016	0.000
11:45:00 AM	0.2	0.016	0.000
11:46:00 AM	0.2	0.017	0.000
11:47:00 AM	0.2	0.017	0.000
11:48:00 AM	0.2	0.018	0.000
11:49:00 AM	0.2	0.017	0.000
11:50:00 AM	0.2	0.018	0.000
11:51:00 AM	0.2	0.018	0.000
11:52:00 AM	0.2	0.018	0.000
11:53:00 AM	0.2	0.018	0.000
11:54:00 AM	0.2	0.018	0.000
11:55:00 AM	0.2	0.018	0.000
11:56:00 AM	0.2	0.018	0.000
11:57:00 AM	0.2	0.018	0.000
11:58:00 AM	0.2	0.018	0.000
11:59:00 AM	0.2	0.019	0.000
12:00:00 PM	0.3	0.017	0.000
12:01:00 PM	0.2	0.018	0.000
12:02:00 PM	0.2	0.018	0.000
12:03:00 PM	0.3	0.019	0.000
12:04:00 PM	0.3	0.020	0.000
12:05:00 PM	0.3	0.020	0.000
12:06:00 PM	0.3	0.020	0.000
12:07:00 PM	0.3	0.020	0.000
12:08:00 PM	0.3	0.020	0.000
12:09:00 PM	0.3	0.022	0.000
12:10:00 PM	0.3	0.024	0.000
12:11:00 PM	0.3	0.023	0.000
12:12:00 PM	0.3	0.020	0.000
12:13:00 PM	0.2	0.019	0.000
12:14:00 PM	0.2	0.019	0.000
12:15:00 PM	0.3	0.019	0.000
12:16:00 PM	0.3	0.019	0.000
12:17:00 PM	0.3	0.020	0.000
12:18:00 PM	0.3	0.020	0.000
12:19:00 PM	0.3	0.019	0.000
12:20:00 PM	0.3	0.019	0.000
12:21:00 PM	0.3	0.019	0.000
12:22:00 PM	0.3	0.021	0.000
12:23:00 PM	0.3	0.021	0.000
12:24:00 PM	0.3	0.021	0.000
12:25:00 PM	0.3	0.022	0.000
12:26:00 PM	0.3	0.021	0.000
12:27:00 PM	0.3	0.020	0.000
12:28:00 PM	0.3	0.020	0.000
12:29:00 PM	0.3	0.018	0.000
12:30:00 PM	0.3	0.021	0.000
12:31:00 PM	0.3	0.021	0.000
12:32:00 PM	0.3	0.024	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:33:00 PM	0.3	0.021	0.000
12:34:00 PM	0.3	0.021	0.000
12:35:00 PM	0.3	0.020	0.000
12:36:00 PM	0.3	0.022	0.000
12:37:00 PM	0.3	0.022	0.000
12:38:00 PM	0.3	0.021	0.000
12:39:00 PM	0.3	0.019	0.000
12:40:00 PM	0.3	0.019	0.000
12:41:00 PM	0.3	0.019	0.000
12:42:00 PM	0.3	0.021	0.000
12:43:00 PM	0.3	0.021	0.000
12:44:00 PM	0.3	0.022	0.000
12:45:00 PM	0.3	0.021	0.000
12:46:00 PM	0.3	0.021	0.000
12:47:00 PM	0.3	0.023	0.000
12:48:00 PM	0.3	0.022	0.000
12:49:00 PM	0.3	0.022	0.000
12:50:00 PM	0.3	0.022	0.000
12:51:00 PM	0.3	0.021	0.000
12:52:00 PM	0.3	0.021	0.000
12:53:00 PM	0.3	0.021	0.000
12:54:00 PM	0.3	0.022	0.000
12:55:00 PM	0.3	0.021	0.000
12:56:00 PM	0.3	0.020	0.000
12:57:00 PM	0.3	0.022	0.000
12:58:00 PM	0.3	0.021	0.000
12:59:00 PM	0.3	0.020	0.000
1:00:00 PM	0.3	0.020	0.000
1:01:00 PM	0.3	0.021	0.000
1:02:00 PM	0.3	0.021	0.000
1:03:00 PM	0.3	0.022	0.000
1:04:00 PM	0.3	0.019	0.000
1:05:00 PM	0.3	0.022	0.000
1:06:00 PM	0.3	0.022	0.000
1:07:00 PM	0.3	0.021	0.000
1:08:00 PM	0.3	0.021	0.000
1:09:00 PM	0.3	0.022	0.000
1:10:00 PM	0.3	0.021	0.000
1:11:00 PM	0.3	0.021	0.000
1:12:00 PM	0.3	0.023	0.000
1:13:00 PM	0.3	0.024	0.000
1:14:00 PM	0.3	0.022	0.000
1:15:00 PM	0.3	0.022	0.000
1:16:00 PM	0.3	0.021	0.000
1:17:00 PM	0.3	0.023	0.000
1:18:00 PM	0.3	0.024	0.000
1:19:00 PM	0.3	0.023	0.000
1:20:00 PM	0.3	0.023	0.000
1:21:00 PM	0.3	0.025	0.000
1:22:00 PM	0.3	0.022	0.000
1:23:00 PM	0.3	0.023	0.000
1:24:00 PM	0.3	0.027	0.000
1:25:00 PM	0.3	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:26:00 PM	0.3	0.021	0.000
1:27:00 PM	0.3	0.021	0.000
1:28:00 PM	0.3	0.021	0.000
1:29:00 PM	0.3	0.022	0.000
1:30:00 PM	0.3	0.023	0.000
1:31:00 PM	0.3	0.023	0.000
1:32:00 PM	0.3	0.022	0.000
1:33:00 PM	0.3	0.022	0.000
1:34:00 PM	0.3	0.020	0.000
1:35:00 PM	0.3	0.022	0.000
1:36:00 PM	0.3	0.021	0.000
1:37:00 PM	0.3	0.021	0.000
1:38:00 PM	0.3	0.021	0.000
1:39:00 PM	0.3	0.021	0.000
1:40:00 PM	0.3	0.023	0.000
1:41:00 PM	0.3	0.024	0.000
1:42:00 PM	0.3	0.042	0.000
1:43:00 PM	0.3	0.030	0.000
1:44:00 PM	0.3	0.024	0.000
1:45:00 PM	0.3	0.024	0.000
1:46:00 PM	0.3	0.024	0.000
1:47:00 PM	0.3	0.025	0.000
1:48:00 PM	0.3	0.024	0.000
1:49:00 PM	0.3	0.023	0.000
1:50:00 PM	0.3	0.026	0.000
1:51:00 PM	0.3	0.023	0.000
1:52:00 PM	0.3	0.025	0.000
1:53:00 PM	0.3	0.024	0.000
1:54:00 PM	0.3	0.024	0.000
1:55:00 PM	0.3	0.022	0.000
1:56:00 PM	0.3	0.022	0.000
1:57:00 PM	0.3	0.021	0.000
1:58:00 PM	0.3	0.020	0.000
1:59:00 PM	0.3	0.019	0.000
2:00:00 PM	0.3	0.021	0.000
2:01:00 PM	0.3	0.020	0.000
2:02:00 PM	0.3	0.020	0.000
2:03:00 PM	0.3	0.020	0.000
2:04:00 PM	0.3	0.021	0.000
2:05:00 PM	0.3	0.020	0.000
2:06:00 PM	0.3	0.020	0.000
2:07:00 PM	0.3	0.019	0.000
2:08:00 PM	0.3	0.021	0.000
2:09:00 PM	0.3	0.022	0.000
2:10:00 PM	0.3	0.023	0.000
2:11:00 PM	0.3	0.023	0.000
2:12:00 PM	0.3	0.025	0.000
2:13:00 PM	0.3	0.023	0.000
2:14:00 PM	0.3	0.022	0.000
2:15:00 PM	0.3	0.022	0.000
2:16:00 PM	0.3	0.021	0.000
2:17:00 PM	0.3	0.021	0.000
2:18:00 PM	0.3	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 27, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:19:00 PM	0.3	0.021	0.000
2:20:00 PM	0.3	0.02	0.000
2:21:00 PM	0.3	0.019	0.000
2:22:00 PM	0.3	0.019	0.000
2:23:00 PM	0.3	0.02	0.000
2:24:00 PM	0.3	0.02	0.000
2:25:00 PM	0.3	0.02	0.000
2:26:00 PM	0.3	0.021	0.000
2:27:00 PM	0.3	0.021	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 21 mph	Date:	1/28/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continuing excavation on area #4, excavating by hand around utilities next to the substation. Aarco excavating soils to a maximum depth of six (6) feet bgs. All exposed utilities are supported with wood and blocks to prevent damage. Sewer line exiting from substation is cut to allow excavation of drywell. Preferred collects endpoint sample CM-EP-09 B(6') as well as associated MS/MSD/Dup QAQC samples. Preferred is field screening all excavated soils for the presence of VOC's and Mercury Vapor. All excavated soils are being placed on the stockpile. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.013	0.000	0.1	0.022	0.000
Down Wind	0.2	0.013	0.000	0.3	0.019	0.000
Work Zone	0.1	0.012	0.000	0.2	0.017	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will backfill the excavation



Disinfecting shared tools.



Preferred collecting endpoint sample CM-EP-09.

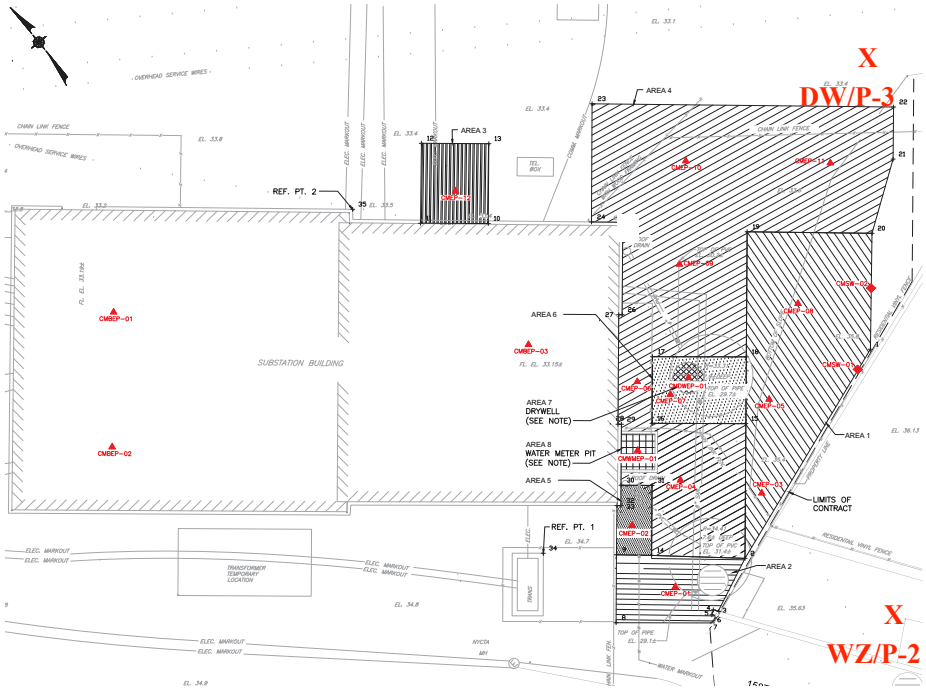


All excavated soils are placed within stockpile area.



Preferred field screening excavated soils.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1/28/21 9:03	0.0		0.000
9:04:00 AM	0.0		0.000
9:05:00 AM	0.0	0.000	0.000
9:06:00 AM	0.0	0.000	0.000
9:07:00 AM	0.0	0.000	0.000
9:08:00 AM	0.0	0.000	0.000
9:09:00 AM	0.0	0.017	0.000
9:10:00 AM	0.0	0.033	0.000
9:11:00 AM	0.0	0.024	0.000
9:12:00 AM	0.0	0.017	0.000
9:13:00 AM	0.0	0.016	0.000
9:14:00 AM	0.0	0.017	0.000
9:15:00 AM	0.0	0.017	0.000
9:16:00 AM	0.0	0.017	0.000
9:17:00 AM	0.0	0.017	0.000
9:18:00 AM	0.0	0.068	0.000
9:19:00 AM	0.0	0.017	0.000
9:20:00 AM	0.0	0.018	0.000
9:21:00 AM	0.0	0.017	0.000
9:22:00 AM	0.0	0.017	0.000
9:23:00 AM	0.0	0.017	0.000
9:24:00 AM	0.0	0.016	0.000
9:25:00 AM	0.0	0.017	0.000
9:26:00 AM	0.0	0.018	0.000
9:27:00 AM	0.0	0.017	0.000
9:28:00 AM	0.0	0.016	0.000
9:29:00 AM	0.0	0.016	0.000
9:30:00 AM	0.0	0.017	0.000
9:31:00 AM	0.0	0.016	0.000
9:32:00 AM	0.0	0.017	0.000
9:33:00 AM	0.0	0.017	0.000
9:34:00 AM	0.0	0.017	0.000
9:35:00 AM	0.0	0.018	0.000
9:36:00 AM	0.0	0.017	0.000
9:37:00 AM	0.0	0.017	0.000
9:38:00 AM	0.0	0.018	0.000
9:39:00 AM	0.0	0.018	0.000
9:40:00 AM	0.0	0.018	0.000
9:41:00 AM	0.0	0.017	0.000
9:42:00 AM	0.0	0.016	0.000
9:43:00 AM	0.0	0.016	0.000
9:44:00 AM	0.0	0.017	0.000
9:45:00 AM	0.0	0.016	0.000
9:46:00 AM	0.0	0.016	0.000
9:47:00 AM	0.0	0.024	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.016	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.015	0.000
9:52:00 AM	0.0	0.015	0.000
9:53:00 AM	0.0	0.029	0.000
9:54:00 AM	0.0	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:55:00 AM	0.0	0.017	0.000
9:56:00 AM	0.0	0.016	0.000
9:57:00 AM	0.0	0.016	0.000
9:58:00 AM	0.0	0.016	0.000
9:59:00 AM	0.0	0.016	0.000
10:00:00 AM	0.0	0.017	0.000
10:01:00 AM	0.0	0.016	0.000
10:02:00 AM	0.0	0.016	0.000
10:03:00 AM	0.0	0.016	0.000
10:04:00 AM	0.0	0.015	0.000
10:05:00 AM	0.0	0.014	0.000
10:06:00 AM	0.0	0.015	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.015	0.000
10:10:00 AM	0.0	0.016	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.015	0.000
10:14:00 AM	0.0	0.014	0.000
10:15:00 AM	0.0	0.013	0.000
10:16:00 AM	0.0	0.013	0.000
10:17:00 AM	0.0	0.013	0.000
10:18:00 AM	0.0	0.013	0.000
10:19:00 AM	0.0	0.014	0.000
10:20:00 AM	0.0	0.014	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.013	0.000
10:23:00 AM	0.0	0.013	0.000
10:24:00 AM	0.0	0.013	0.000
10:25:00 AM	0.0	0.013	0.000
10:26:00 AM	0.0	0.013	0.000
10:27:00 AM	0.0	0.013	0.000
10:28:00 AM	0.0	0.013	0.000
10:29:00 AM	0.0	0.013	0.000
10:30:00 AM	0.0	0.013	0.000
10:31:00 AM	0.0	0.013	0.000
10:32:00 AM	0.0	0.013	0.000
10:33:00 AM	0.0	0.013	0.000
10:34:00 AM	0.0	0.014	0.000
10:35:00 AM	0.0	0.013	0.000
10:36:00 AM	0.0	0.012	0.000
10:37:00 AM	0.0	0.012	0.000
10:38:00 AM	0.0	0.013	0.000
10:39:00 AM	0.0	0.013	0.000
10:40:00 AM	0.0	0.013	0.000
10:41:00 AM	0.0	0.013	0.000
10:42:00 AM	0.0	0.013	0.000
10:43:00 AM	0.0	0.013	0.000
10:44:00 AM	0.0	0.014	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.013	0.000
10:47:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.013	0.000
10:50:00 AM	0.0	0.013	0.000
10:51:00 AM	0.0	0.013	0.000
10:52:00 AM	0.0	0.013	0.000
10:53:00 AM	0.0	0.014	0.000
10:54:00 AM	0.0	0.014	0.000
10:55:00 AM	0.0	0.014	0.000
10:56:00 AM	0.0	0.014	0.000
10:57:00 AM	0.0	0.014	0.000
10:58:00 AM	0.0	0.014	0.000
10:59:00 AM	0.0	0.012	0.000
11:00:00 AM	0.0	0.011	0.000
11:01:00 AM	0.0	0.012	0.000
11:02:00 AM	0.0	0.012	0.000
11:03:00 AM	0.0	0.011	0.000
11:04:00 AM	0.0	0.012	0.000
11:05:00 AM	0.0	0.012	0.000
11:06:00 AM	0.0	0.012	0.000
11:07:00 AM	0.0	0.011	0.000
11:08:00 AM	0.0	0.012	0.000
11:09:00 AM	0.0	0.012	0.000
11:10:00 AM	0.0	0.012	0.000
11:11:00 AM	0.0	0.011	0.000
11:12:00 AM	0.0	0.017	0.000
11:13:00 AM	0.0	0.012	0.000
11:14:00 AM	0.0	0.011	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.012	0.000
11:17:00 AM	0.0	0.011	0.000
11:18:00 AM	0.0	0.011	0.000
11:19:00 AM	0.0	0.011	0.000
11:20:00 AM	0.0	0.013	0.000
11:21:00 AM	0.0	0.050	0.000
11:22:00 AM	0.0	0.014	0.000
11:23:00 AM	0.0	0.012	0.000
11:24:00 AM	0.1	0.011	0.000
11:25:00 AM	0.0	0.013	0.000
11:26:00 AM	0.0	0.014	0.000
11:27:00 AM	0.0	0.012	0.000
11:28:00 AM	0.0	0.013	0.000
11:29:00 AM	0.0	0.011	0.000
11:30:00 AM	0.1	0.012	0.000
11:31:00 AM	0.1	0.012	0.000
11:32:00 AM	0.1	0.012	0.000
11:33:00 AM	0.1	0.011	0.000
11:34:00 AM	0.0	0.012	0.000
11:35:00 AM	0.0	0.011	0.000
11:36:00 AM	0.1	0.012	0.000
11:37:00 AM	0.0	0.013	0.000
11:38:00 AM	0.0	0.013	0.000
11:39:00 AM	0.0	0.010	0.000
11:40:00 AM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:41:00 AM	0.0	0.011	0.000
11:42:00 AM	0.0	0.011	0.000
11:43:00 AM	0.0	0.010	0.000
11:44:00 AM	0.1	0.011	0.000
11:45:00 AM	0.0	0.010	0.000
11:46:00 AM	0.1	0.011	0.000
11:47:00 AM	0.1	0.011	0.000
11:48:00 AM	0.1	0.011	0.000
11:49:00 AM	0.1	0.010	0.000
11:50:00 AM	0.1	0.010	0.000
11:51:00 AM	0.1	0.010	0.000
11:52:00 AM	0.1	0.010	0.000
11:53:00 AM	0.1	0.010	0.000
11:54:00 AM	0.1	0.010	0.000
11:55:00 AM	0.1	0.010	0.000
11:56:00 AM	0.1	0.010	0.000
11:57:00 AM	0.1	0.010	0.000
11:58:00 AM	0.1	0.010	0.000
11:59:00 AM	0.1	0.010	0.000
12:00:00 PM	0.1	0.010	0.000
12:01:00 PM	0.1	0.010	0.000
12:02:00 PM	0.1	0.010	0.000
12:03:00 PM	0.1	0.010	0.000
12:04:00 PM	0.1	0.010	0.000
12:05:00 PM	0.1	0.011	0.000
12:06:00 PM	0.1	0.011	0.000
12:07:00 PM	0.1	0.010	0.000
12:08:00 PM	0.1	0.010	0.000
12:09:00 PM	0.1	0.010	0.000
12:10:00 PM	0.1	0.011	0.000
12:11:00 PM	0.1	0.010	0.000
12:12:00 PM	0.1	0.010	0.000
12:13:00 PM	0.1	0.010	0.000
12:14:00 PM	0.1	0.010	0.000
12:15:00 PM	0.1	0.010	0.000
12:16:00 PM	0.1	0.010	0.000
12:17:00 PM	0.1	0.010	0.000
12:18:00 PM	0.1	0.009	0.000
12:19:00 PM	0.1	0.010	0.000
12:20:00 PM	0.1	0.010	0.000
12:21:00 PM	0.1	0.009	0.000
12:22:00 PM	0.1	0.010	0.000
12:23:00 PM	0.1	0.009	0.000
12:24:00 PM	0.1	0.010	0.000
12:25:00 PM	0.1	0.010	0.000
12:26:00 PM	0.1	0.009	0.000
12:27:00 PM	0.1	0.009	0.000
12:28:00 PM	0.1	0.010	0.000
12:29:00 PM	0.1	0.008	0.000
12:30:00 PM	0.1	0.008	0.000
12:31:00 PM	0.1	0.009	0.000
12:32:00 PM	0.1	0.010	0.000
12:33:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:34:00 PM	0.1	0.009	0.000
12:35:00 PM	0.1	0.008	0.000
12:36:00 PM	0.1	0.008	0.000
12:37:00 PM	0.1	0.008	0.000
12:38:00 PM	0.1	0.008	0.000
12:39:00 PM	0.1	0.008	0.000
12:40:00 PM	0.1	0.008	0.000
12:41:00 PM	0.1	0.009	0.000
12:42:00 PM	0.1	0.008	0.000
12:43:00 PM	0.1	0.008	0.000
12:44:00 PM	0.1	0.010	0.000
12:45:00 PM	0.1	0.012	0.000
12:46:00 PM	0.1	0.010	0.000
12:47:00 PM	0.1	0.009	0.000
12:48:00 PM	0.1	0.011	0.000
12:49:00 PM	0.1	0.019	0.000
12:50:00 PM	0.1	0.009	0.000
12:51:00 PM	0.1	0.008	0.000
12:52:00 PM	0.1	0.008	0.000
12:53:00 PM	0.1	0.014	0.000
12:54:00 PM	0.1	0.008	0.000
12:55:00 PM	0.1	0.008	0.000
12:56:00 PM	0.1	0.009	0.000
12:57:00 PM	0.1	0.009	0.000
12:58:00 PM	0.1	0.009	0.000
12:59:00 PM	0.1	0.011	0.000
1:00:00 PM	0.1	0.010	0.000
1:01:00 PM	0.1	0.011	0.000
1:02:00 PM	0.1	0.010	0.000
1:03:00 PM	0.1	0.009	0.000
1:04:00 PM	0.1	0.009	0.000
1:05:00 PM	0.1	0.008	0.000
1:06:00 PM	0.1	0.008	0.000
1:07:00 PM	0.1	0.008	0.000
1:08:00 PM	0.1	0.009	0.000
1:09:00 PM	0.1	0.009	0.000
1:10:00 PM	0.1	0.010	0.000
1:11:00 PM	0.1	0.010	0.000
1:12:00 PM	0.1	0.010	0.000
1:13:00 PM	0.1	0.009	0.000
1:14:00 PM	0.1	0.009	0.000
1:15:00 PM	0.1	0.010	0.000
1:16:00 PM	0.1	0.010	0.000
1:17:00 PM	0.1	0.010	0.000
1:18:00 PM	0.1	0.009	0.000
1:19:00 PM	0.1	0.009	0.000
1:20:00 PM	0.1	0.009	0.000
1:21:00 PM	0.1	0.009	0.000
1:22:00 PM	0.1	0.009	0.000
1:23:00 PM	0.1	0.009	0.000
1:24:00 PM	0.1	0.008	0.000
1:25:00 PM	0.1	0.009	0.000
1:26:00 PM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:27:00 PM	0.1	0.009	0.000
1:28:00 PM	0.1	0.009	0.000
1:29:00 PM	0.1	0.009	0.000
1:30:00 PM	0.1	0.015	0.000
1:31:00 PM	0.1	0.008	0.000
1:32:00 PM	0.1	0.008	0.000
1:33:00 PM	0.1	0.008	0.000
1:34:00 PM	0.1	0.009	0.000
1:35:00 PM	0.1	0.008	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.1	0.008	0.000
1:39:00 PM	0.1	0.009	0.000
1:40:00 PM	0.1	0.009	0.000
1:41:00 PM	0.1	0.009	0.000
1:42:00 PM	0.1	0.008	0.000
1:43:00 PM	0.1	0.008	0.000
1:44:00 PM	0.1	0.008	0.000
1:45:00 PM	0.1	0.008	0.000
1:46:00 PM	0.1	0.008	0.000
1:47:00 PM	0.1	0.008	0.000
1:48:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:13:00 AM	0.0	0.251	0.000
9:14:00 AM	0.0	0.041	0.000
9:15:00 AM	0.0	0.016	0.000
9:16:00 AM	0.0	0.016	0.000
9:17:00 AM	0.0	0.015	0.000
9:18:00 AM	0.0	0.015	0.000
9:19:00 AM	0.0	0.015	0.000
9:20:00 AM	0.1	0.015	0.000
9:21:00 AM	0.1	0.015	0.000
9:22:00 AM	0.1	0.015	0.000
9:23:00 AM	0.1	0.014	0.000
9:24:00 AM	0.1	0.015	0.000
9:25:00 AM	0.1	0.014	0.000
9:26:00 AM	0.1	0.015	0.000
9:27:00 AM	0.1	0.015	0.000
9:28:00 AM	0.1	0.015	0.000
9:29:00 AM	0.1	0.015	0.000
9:30:00 AM	0.1	0.016	0.000
9:31:00 AM	0.1	0.017	0.000
9:32:00 AM	0.1	0.015	0.000
9:33:00 AM	0.1	0.015	0.000
9:34:00 AM	0.1	0.016	0.000
9:35:00 AM	0.1	0.029	0.000
9:36:00 AM	0.1	0.016	0.000
9:37:00 AM	0.1	0.016	0.000
9:38:00 AM	0.1	0.016	0.000
9:39:00 AM	0.1	0.017	0.000
9:40:00 AM	0.1	0.016	0.000
9:41:00 AM	0.1	0.015	0.000
9:42:00 AM	0.1	0.015	0.000
9:43:00 AM	0.1	0.015	0.000
9:44:00 AM	0.1	0.015	0.000
9:45:00 AM	0.1	0.015	0.000
9:46:00 AM	0.1	0.014	0.000
9:47:00 AM	0.1	0.020	0.000
9:48:00 AM	0.1	0.016	0.000
9:49:00 AM	0.1	0.016	0.000
9:50:00 AM	0.1	0.016	0.000
9:51:00 AM	0.1	0.015	0.000
9:52:00 AM	0.1	0.014	0.000
9:53:00 AM	0.1	0.019	0.000
9:54:00 AM	0.1	0.018	0.000
9:55:00 AM	0.1	0.016	0.000
9:56:00 AM	0.2	0.016	0.000
9:57:00 AM	0.2	0.015	0.000
9:58:00 AM	0.1	0.016	0.000
9:59:00 AM	0.1	0.016	0.000
10:00:00 AM	0.1	0.016	0.000
10:01:00 AM	0.2	0.016	0.000
10:02:00 AM	0.2	0.016	0.000
10:03:00 AM	0.2	0.016	0.000
10:04:00 AM	0.2	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:05:00 AM	0.2	0.014	0.000
10:06:00 AM	0.2	0.015	0.000
10:07:00 AM	0.1	0.016	0.000
10:08:00 AM	0.2	0.017	0.000
10:09:00 AM	0.2	0.014	0.000
10:10:00 AM	0.2	0.016	0.000
10:11:00 AM	0.2	0.015	0.000
10:12:00 AM	0.2	0.014	0.000
10:13:00 AM	0.2	0.015	0.000
10:14:00 AM	0.2	0.015	0.000
10:15:00 AM	0.2	0.014	0.000
10:16:00 AM	0.2	0.014	0.000
10:17:00 AM	0.2	0.013	0.000
10:18:00 AM	0.2	0.013	0.000
10:19:00 AM	0.2	0.014	0.000
10:20:00 AM	0.2	0.015	0.000
10:21:00 AM	0.2	0.015	0.000
10:22:00 AM	0.2	0.013	0.000
10:23:00 AM	0.2	0.015	0.000
10:24:00 AM	0.2	0.013	0.000
10:25:00 AM	0.2	0.013	0.000
10:26:00 AM	0.2	0.013	0.000
10:27:00 AM	0.2	0.014	0.000
10:28:00 AM	0.2	0.013	0.000
10:29:00 AM	0.2	0.012	0.000
10:30:00 AM	0.2	0.013	0.000
10:31:00 AM	0.2	0.016	0.000
10:32:00 AM	0.2	0.012	0.000
10:33:00 AM	0.2	0.013	0.000
10:34:00 AM	0.2	0.014	0.000
10:35:00 AM	0.2	0.014	0.000
10:36:00 AM	0.2	0.013	0.000
10:37:00 AM	0.2	0.013	0.000
10:38:00 AM	0.2	0.013	0.000
10:39:00 AM	0.2	0.013	0.000
10:40:00 AM	0.2	0.013	0.000
10:41:00 AM	0.2	0.013	0.000
10:42:00 AM	0.2	0.013	0.000
10:43:00 AM	0.2	0.014	0.000
10:44:00 AM	0.2	0.014	0.000
10:45:00 AM	0.2	0.013	0.000
10:46:00 AM	0.2	0.013	0.000
10:47:00 AM	0.2	0.013	0.000
10:48:00 AM	0.2	0.014	0.000
10:49:00 AM	0.2	0.022	0.000
10:50:00 AM	0.2	0.013	0.000
10:51:00 AM	0.2	0.013	0.000
10:52:00 AM	0.2	0.014	0.000
10:53:00 AM	0.2	0.013	0.000
10:54:00 AM	0.2	0.013	0.000
10:55:00 AM	0.2	0.013	0.000
10:56:00 AM	0.2	0.013	0.000
10:57:00 AM	0.2	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:58:00 AM	0.2	0.014	0.000
10:59:00 AM	0.2	0.013	0.000
11:00:00 AM	0.2	0.025	0.000
11:01:00 AM	0.2	0.014	0.000
11:02:00 AM	0.2	0.013	0.000
11:03:00 AM	0.2	0.012	0.000
11:04:00 AM	0.2	0.013	0.000
11:05:00 AM	0.2	0.013	0.000
11:06:00 AM	0.2	0.013	0.000
11:07:00 AM	0.2	0.012	0.000
11:08:00 AM	0.2	0.012	0.000
11:09:00 AM	0.2	0.014	0.000
11:10:00 AM	0.2	0.013	0.000
11:11:00 AM	0.2	0.012	0.000
11:12:00 AM	0.2	0.017	0.000
11:13:00 AM	0.2	0.015	0.000
11:14:00 AM	0.2	0.014	0.000
11:15:00 AM	0.2	0.021	0.000
11:16:00 AM	0.2	0.015	0.000
11:17:00 AM	0.2	0.014	0.000
11:18:00 AM	0.2	0.025	0.000
11:19:00 AM	0.2	0.027	0.000
11:20:00 AM	0.2	0.013	0.000
11:21:00 AM	0.2	0.014	0.000
11:22:00 AM	0.2	0.016	0.000
11:23:00 AM	0.2	0.013	0.000
11:24:00 AM	0.2	0.014	0.000
11:25:00 AM	0.2	0.016	0.000
11:26:00 AM	0.2	0.014	0.000
11:27:00 AM	0.2	0.012	0.000
11:28:00 AM	0.2	0.013	0.000
11:29:00 AM	0.2	0.012	0.000
11:30:00 AM	0.2	0.012	0.000
11:31:00 AM	0.2	0.014	0.000
11:32:00 AM	0.2	0.013	0.000
11:33:00 AM	0.2	0.012	0.000
11:34:00 AM	0.2	0.011	0.000
11:35:00 AM	0.2	0.012	0.000
11:36:00 AM	0.2	0.011	0.000
11:37:00 AM	0.2	0.012	0.000
11:38:00 AM	0.2	0.011	0.000
11:39:00 AM	0.2	0.010	0.000
11:40:00 AM	0.2	0.012	0.000
11:41:00 AM	0.2	0.010	0.000
11:42:00 AM	0.2	0.010	0.000
11:43:00 AM	0.2	0.010	0.000
11:44:00 AM	0.2	0.010	0.000
11:45:00 AM	0.2	0.010	0.000
11:46:00 AM	0.2	0.010	0.000
11:47:00 AM	0.1	0.010	0.000
11:48:00 AM	0.2	0.010	0.000
11:49:00 AM	0.2	0.009	0.000
11:50:00 AM	0.2	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:51:00 AM	0.2	0.009	0.000
11:52:00 AM	0.1	0.010	0.000
11:53:00 AM	0.2	0.009	0.000
11:54:00 AM	0.1	0.010	0.000
11:55:00 AM	0.2	0.009	0.000
11:56:00 AM	0.2	0.009	0.000
11:57:00 AM	0.1	0.010	0.000
11:58:00 AM	0.2	0.010	0.000
11:59:00 AM	0.2	0.010	0.000
12:00:00 PM	0.1	0.010	0.000
12:01:00 PM	0.2	0.009	0.000
12:02:00 PM	0.2	0.010	0.000
12:03:00 PM	0.1	0.010	0.000
12:04:00 PM	0.1	0.010	0.000
12:05:00 PM	0.2	0.010	0.000
12:06:00 PM	0.1	0.010	0.000
12:07:00 PM	0.1	0.010	0.000
12:08:00 PM	0.2	0.010	0.000
12:09:00 PM	0.1	0.011	0.000
12:10:00 PM	0.2	0.009	0.000
12:11:00 PM	0.2	0.010	0.000
12:12:00 PM	0.2	0.010	0.000
12:13:00 PM	0.2	0.010	0.000
12:14:00 PM	0.1	0.010	0.000
12:15:00 PM	0.2	0.012	0.000
12:16:00 PM	0.2	0.010	0.000
12:17:00 PM	0.1	0.010	0.000
12:18:00 PM	0.1	0.010	0.000
12:19:00 PM	0.1	0.010	0.000
12:20:00 PM	0.1	0.010	0.000
12:21:00 PM	0.1	0.010	0.000
12:22:00 PM	0.2	0.009	0.000
12:23:00 PM	0.1	0.010	0.000
12:24:00 PM	0.1	0.009	0.000
12:25:00 PM	0.1	0.010	0.000
12:26:00 PM	0.1	0.010	0.000
12:27:00 PM	0.1	0.010	0.000
12:28:00 PM	0.1	0.010	0.000
12:29:00 PM	0.1	0.009	0.000
12:30:00 PM	0.1	0.008	0.000
12:31:00 PM	0.1	0.009	0.000
12:32:00 PM	0.1	0.010	0.000
12:33:00 PM	0.1	0.009	0.000
12:34:00 PM	0.1	0.010	0.000
12:35:00 PM	0.1	0.010	0.000
12:36:00 PM	0.1	0.009	0.000
12:37:00 PM	0.1	0.008	0.000
12:38:00 PM	0.1	0.009	0.000
12:39:00 PM	0.1	0.011	0.000
12:40:00 PM	0.1	0.010	0.000
12:41:00 PM	0.1	0.010	0.000
12:42:00 PM	0.2	0.010	0.000
12:43:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:44:00 PM	0.1	0.012	0.000
12:45:00 PM	0.1	0.011	0.000
12:46:00 PM	0.1	0.010	0.000
12:47:00 PM	0.1	0.012	0.000
12:48:00 PM	0.1	0.010	0.000
12:49:00 PM	0.1	0.013	0.000
12:50:00 PM	0.1	0.013	0.000
12:51:00 PM	0.1	0.011	0.000
12:52:00 PM	0.1	0.012	0.000
12:53:00 PM	0.1	0.014	0.000
12:54:00 PM	0.1	0.014	0.000
12:55:00 PM	0.1	0.008	0.000
12:56:00 PM	0.1	0.008	0.000
12:57:00 PM	0.1	0.008	0.000
12:58:00 PM	0.1	0.008	0.000
12:59:00 PM	0.1	0.009	0.000
1:00:00 PM	0.1	0.009	0.000
1:01:00 PM	0.1	0.008	0.000
1:02:00 PM	0.1	0.009	0.000
1:03:00 PM	0.2	0.010	0.000
1:04:00 PM	0.1	0.009	0.000
1:05:00 PM	0.1	0.009	0.000
1:06:00 PM	0.1	0.008	0.000
1:07:00 PM	0.1	0.008	0.000
1:08:00 PM	0.1	0.009	0.000
1:09:00 PM	0.2	0.008	0.000
1:10:00 PM	0.1	0.009	0.000
1:11:00 PM	0.1	0.010	0.000
1:12:00 PM	0.1	0.009	0.000
1:13:00 PM	0.2	0.010	0.000
1:14:00 PM	0.1	0.009	0.000
1:15:00 PM	0.2	0.010	0.000
1:16:00 PM	0.1	0.009	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.1	0.009	0.000
1:19:00 PM	0.1	0.009	0.000
1:20:00 PM	0.1	0.009	0.000
1:21:00 PM	0.1	0.009	0.000
1:22:00 PM	0.1	0.008	0.000
1:23:00 PM	0.1	0.010	0.000
1:24:00 PM	0.1	0.007	0.000
1:25:00 PM	0.1	0.008	0.000
1:26:00 PM	0.1	0.015	0.000
1:27:00 PM	0.1	0.008	0.000
1:28:00 PM	0.1	0.008	0.000
1:29:00 PM	0.1	0.009	0.000
1:30:00 PM	0.1	0.013	0.000
1:31:00 PM	0.1	0.008	0.000
1:32:00 PM	0.1	0.007	0.000
1:33:00 PM	0.1	0.008	0.000
1:34:00 PM	0.1	0.008	0.000
1:35:00 PM	0.1	0.008	0.000
1:36:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.1	0.008	0.000
1:39:00 PM	0.1	0.008	0.000
1:40:00 PM	0.1	0.009	0.000
1:41:00 PM	0.1	0.008	0.000
1:42:00 PM	0.1	0.008	0.000
1:43:00 PM	0.1	0.008	0.000
1:44:00 PM	0.1	0.009	0.000
1:45:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:24:00 AM	0.1	0.029	0.000
9:25:00 AM	0.1	0.017	0.000
9:26:00 AM	0.1	0.017	0.000
9:27:00 AM	0.1	0.017	0.000
9:28:00 AM	0.1	0.017	0.000
9:29:00 AM	0.1	0.016	0.000
9:30:00 AM	0.1	0.018	0.000
9:31:00 AM	0.1	0.017	0.000
9:32:00 AM	0.1	0.018	0.000
9:33:00 AM	0.1	0.019	0.000
9:34:00 AM	0.1	0.019	0.000
9:35:00 AM	0.1	0.019	0.000
9:36:00 AM	0.1	0.018	0.000
9:37:00 AM	0.1	0.018	0.000
9:38:00 AM	0.1	0.021	0.000
9:39:00 AM	0.1	0.019	0.000
9:40:00 AM	0.1	0.020	0.000
9:41:00 AM	0.1	0.018	0.000
9:42:00 AM	0.1	0.018	0.000
9:43:00 AM	0.1	0.019	0.000
9:44:00 AM	0.1	0.019	0.000
9:45:00 AM	0.1	0.019	0.000
9:46:00 AM	0.1	0.019	0.000
9:47:00 AM	0.1	0.022	0.000
9:48:00 AM	0.2	0.017	0.000
9:49:00 AM	0.1	0.018	0.000
9:50:00 AM	0.1	0.016	0.000
9:51:00 AM	0.1	0.016	0.000
9:52:00 AM	0.1	0.016	0.000
9:53:00 AM	0.1	0.023	0.000
9:54:00 AM	0.1	0.025	0.000
9:55:00 AM	0.1	0.018	0.000
9:56:00 AM	0.1	0.017	0.000
9:57:00 AM	0.2	0.018	0.000
9:58:00 AM	0.2	0.018	0.000
9:59:00 AM	0.2	0.018	0.000
10:00:00 AM	0.2	0.019	0.000
10:01:00 AM	0.2	0.018	0.000
10:02:00 AM	0.2	0.018	0.000
10:03:00 AM	0.2	0.018	0.000
10:04:00 AM	0.2	0.017	0.000
10:05:00 AM	0.2	0.016	0.000
10:06:00 AM	0.2	0.016	0.000
10:07:00 AM	0.2	0.016	0.000
10:08:00 AM	0.2	0.016	0.000
10:09:00 AM	0.2	0.015	0.000
10:10:00 AM	0.2	0.016	0.000
10:11:00 AM	0.2	0.016	0.000
10:12:00 AM	0.2	0.016	0.000
10:13:00 AM	0.2	0.016	0.000
10:14:00 AM	0.2	0.015	0.000
10:15:00 AM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:16:00 AM	0.2	0.013	0.000
10:17:00 AM	0.2	0.014	0.000
10:18:00 AM	0.2	0.015	0.000
10:19:00 AM	0.2	0.016	0.000
10:20:00 AM	0.2	0.015	0.000
10:21:00 AM	0.2	0.014	0.000
10:22:00 AM	0.2	0.014	0.000
10:23:00 AM	0.2	0.015	0.000
10:24:00 AM	0.2	0.016	0.000
10:25:00 AM	0.2	0.016	0.000
10:26:00 AM	0.2	0.015	0.000
10:27:00 AM	0.2	0.015	0.000
10:28:00 AM	0.2	0.014	0.000
10:29:00 AM	0.2	0.015	0.000
10:30:00 AM	0.2	0.016	0.000
10:31:00 AM	0.2	0.015	0.000
10:32:00 AM	0.2	0.015	0.000
10:33:00 AM	0.2	0.014	0.000
10:34:00 AM	0.2	0.014	0.000
10:35:00 AM	0.2	0.014	0.000
10:36:00 AM	0.2	0.014	0.000
10:37:00 AM	0.2	0.014	0.000
10:38:00 AM	0.2	0.015	0.000
10:39:00 AM	0.2	0.015	0.000
10:40:00 AM	0.2	0.015	0.000
10:41:00 AM	0.2	0.015	0.000
10:42:00 AM	0.2	0.015	0.000
10:43:00 AM	0.2	0.015	0.000
10:44:00 AM	0.2	0.015	0.000
10:45:00 AM	0.2	0.016	0.000
10:46:00 AM	0.2	0.014	0.000
10:47:00 AM	0.2	0.014	0.000
10:48:00 AM	0.2	0.014	0.000
10:49:00 AM	0.2	0.015	0.000
10:50:00 AM	0.2	0.016	0.000
10:51:00 AM	0.2	0.014	0.000
10:52:00 AM	0.2	0.015	0.000
10:53:00 AM	0.2	0.015	0.000
10:54:00 AM	0.2	0.015	0.000
10:55:00 AM	0.2	0.015	0.000
10:56:00 AM	0.2	0.015	0.000
10:57:00 AM	0.2	0.016	0.000
10:58:00 AM	0.2	0.015	0.000
10:59:00 AM	0.2	0.013	0.000
11:00:00 AM	0.2	0.012	0.000
11:01:00 AM	0.2	0.012	0.000
11:02:00 AM	0.2	0.012	0.000
11:03:00 AM	0.2	0.012	0.000
11:04:00 AM	0.2	0.013	0.000
11:05:00 AM	0.2	0.014	0.000
11:06:00 AM	0.2	0.013	0.000
11:07:00 AM	0.2	0.013	0.000
11:08:00 AM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:09:00 AM	0.2	0.013	0.000
11:10:00 AM	0.2	0.013	0.000
11:11:00 AM	0.2	0.012	0.000
11:12:00 AM	0.2	0.012	0.000
11:13:00 AM	0.3	0.012	0.000
11:14:00 AM	0.3	0.011	0.000
11:15:00 AM	0.3	0.012	0.000
11:16:00 AM	0.3	0.012	0.000
11:17:00 AM	0.3	0.012	0.000
11:18:00 AM	0.3	0.011	0.000
11:19:00 AM	0.3	0.011	0.000
11:20:00 AM	0.3	0.012	0.000
11:21:00 AM	0.3	0.013	0.000
11:22:00 AM	0.3	0.014	0.000
11:23:00 AM	0.3	0.013	0.000
11:24:00 AM	0.3	0.011	0.000
11:25:00 AM	0.3	0.013	0.000
11:26:00 AM	0.3	0.014	0.000
11:27:00 AM	0.3	0.013	0.000
11:28:00 AM	0.3	0.013	0.000
11:29:00 AM	0.3	0.012	0.000
11:30:00 AM	0.3	0.013	0.000
11:31:00 AM	0.3	0.013	0.000
11:32:00 AM	0.3	0.014	0.000
11:33:00 AM	0.3	0.013	0.000
11:34:00 AM	0.3	0.012	0.000
11:35:00 AM	0.3	0.013	0.000
11:36:00 AM	0.3	0.014	0.000
11:37:00 AM	0.3	0.013	0.000
11:38:00 AM	0.3	0.011	0.000
11:39:00 AM	0.3	0.011	0.000
11:40:00 AM	0.3	0.013	0.000
11:41:00 AM	0.3	0.011	0.000
11:42:00 AM	0.3	0.012	0.000
11:43:00 AM	0.3	0.011	0.000
11:44:00 AM	0.3	0.012	0.000
11:45:00 AM	0.3	0.011	0.000
11:46:00 AM	0.3	0.011	0.000
11:47:00 AM	0.3	0.011	0.000
11:48:00 AM	0.3	0.011	0.000
11:49:00 AM	0.3	0.011	0.000
11:50:00 AM	0.3	0.011	0.000
11:51:00 AM	0.3	0.010	0.000
11:52:00 AM	0.3	0.010	0.000
11:53:00 AM	0.3	0.011	0.000
11:54:00 AM	0.3	0.011	0.000
11:55:00 AM	0.3	0.011	0.000
11:56:00 AM	0.3	0.011	0.000
11:57:00 AM	0.3	0.011	0.000
11:58:00 AM	0.3	0.012	0.000
11:59:00 AM	0.3	0.011	0.000
12:00:00 PM	0.3	0.011	0.000
12:01:00 PM	0.3	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:02:00 PM	0.3	0.011	0.000
12:03:00 PM	0.3	0.012	0.000
12:04:00 PM	0.3	0.011	0.000
12:05:00 PM	0.3	0.012	0.000
12:06:00 PM	0.3	0.012	0.000
12:07:00 PM	0.3	0.011	0.000
12:08:00 PM	0.3	0.012	0.000
12:09:00 PM	0.3	0.012	0.000
12:10:00 PM	0.3	0.011	0.000
12:11:00 PM	0.3	0.010	0.000
12:12:00 PM	0.3	0.010	0.000
12:13:00 PM	0.3	0.011	0.000
12:14:00 PM	0.3	0.010	0.000
12:15:00 PM	0.3	0.010	0.000
12:16:00 PM	0.3	0.011	0.000
12:17:00 PM	0.3	0.011	0.000
12:18:00 PM	0.3	0.010	0.000
12:19:00 PM	0.3	0.010	0.000
12:20:00 PM	0.3	0.011	0.000
12:21:00 PM	0.3	0.011	0.000
12:22:00 PM	0.3	0.011	0.000
12:23:00 PM	0.3	0.010	0.000
12:24:00 PM	0.3	0.011	0.000
12:25:00 PM	0.3	0.010	0.000
12:26:00 PM	0.3	0.012	0.000
12:27:00 PM	0.3	0.011	0.000
12:28:00 PM	0.3	0.011	0.000
12:29:00 PM	0.3	0.010	0.000
12:30:00 PM	0.3	0.009	0.000
12:31:00 PM	0.3	0.010	0.000
12:32:00 PM	0.3	0.012	0.000
12:33:00 PM	0.3	0.011	0.000
12:34:00 PM	0.3	0.010	0.000
12:35:00 PM	0.3	0.009	0.000
12:36:00 PM	0.3	0.008	0.000
12:37:00 PM	0.3	0.009	0.000
12:38:00 PM	0.3	0.009	0.000
12:39:00 PM	0.3	0.009	0.000
12:40:00 PM	0.3	0.009	0.000
12:41:00 PM	0.3	0.009	0.000
12:42:00 PM	0.3	0.009	0.000
12:43:00 PM	0.3	0.009	0.000
12:44:00 PM	0.3	0.010	0.000
12:45:00 PM	0.3	0.009	0.000
12:46:00 PM	0.3	0.010	0.000
12:47:00 PM	0.3	0.011	0.000
12:48:00 PM	0.3	0.010	0.000
12:49:00 PM	0.3	0.010	0.000
12:50:00 PM	0.3	0.009	0.000
12:51:00 PM	0.3	0.008	0.000
12:52:00 PM	0.3	0.009	0.000
12:53:00 PM	0.3	0.010	0.000
12:54:00 PM	0.3	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 28, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:55:00 PM	0.3	0.008	0.000
12:56:00 PM	0.3	0.009	0.000
12:57:00 PM	0.3	0.009	0.000
12:58:00 PM	0.3	0.010	0.000
12:59:00 PM	0.3	0.011	0.000
1:00:00 PM	0.3	0.010	0.000
1:01:00 PM	0.3	0.009	0.000
1:02:00 PM	0.3	0.009	0.000
1:03:00 PM	0.3	0.009	0.000
1:04:00 PM	0.3	0.009	0.000
1:05:00 PM	0.3	0.009	0.000
1:06:00 PM	0.3	0.009	0.000
1:07:00 PM	0.3	0.009	0.000
1:08:00 PM	0.3	0.009	0.000
1:09:00 PM	0.3	0.009	0.000
1:10:00 PM	0.3	0.010	0.000
1:11:00 PM	0.3	0.011	0.000
1:12:00 PM	0.3	0.009	0.000
1:13:00 PM	0.3	0.008	0.000
1:14:00 PM	0.3	0.008	0.000
1:15:00 PM	0.3	0.009	0.000
1:16:00 PM	0.3	0.009	0.000
1:17:00 PM	0.3	0.010	0.000
1:18:00 PM	0.3	0.009	0.000
1:19:00 PM	0.3	0.010	0.000
1:20:00 PM	0.3	0.008	0.000
1:21:00 PM	0.3	0.008	0.000
1:22:00 PM	0.3	0.009	0.000
1:23:00 PM	0.3	0.008	0.000
1:24:00 PM	0.3	0.008	0.000
1:25:00 PM	0.3	0.009	0.000
1:26:00 PM	0.3	0.007	0.000
1:27:00 PM	0.3	0.008	0.000
1:28:00 PM	0.3	0.008	0.000
1:29:00 PM	0.3	0.010	0.000
1:30:00 PM	0.3	0.008	0.000
1:31:00 PM	0.3	0.007	0.000
1:32:00 PM	0.3	0.008	0.000
1:33:00 PM	0.3	0.007	0.000
1:34:00 PM	0.3	0.008	0.000
1:35:00 PM	0.3	0.008	0.000
1:36:00 PM	0.3	0.007	0.000
1:37:00 PM	0.3	0.007	0.000
1:38:00 PM	0.3	0.008	0.000
1:39:00 PM	0.3	0.009	0.000
1:40:00 PM	0.3	0.008	0.000
1:41:00 PM	0.3	0.009	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32	X	32-50		50-70		70-85		>85	

Project No.:		Winds From NW ~ 26 mph	Date:	1/29/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco backfilling area #4 with sand. All backfilling completed in ten (10) inch lifts compacted with a gas powered compactor. Sky Testing Inc onsite to preform compaction testing on each lift, ensuring that > 95% compaction has been achieved. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.007	0.000	0.1	0.010	0.000
Down Wind	0.2	0.006	0.000	0.3	0.010	0.000
Work Zone	0.1	0.008	0.000	0.1	0.016	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco move digging box in to next area of excavation.



View of Aarco loading sand from truck for backfill.



Aarco compacting sand in 10 inch lifts.

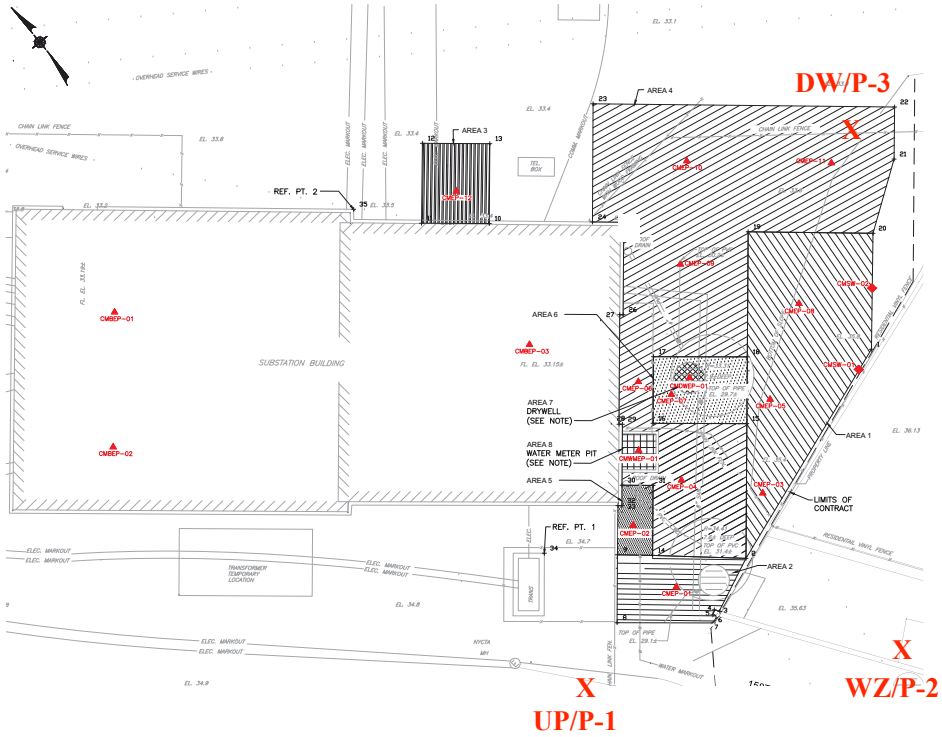


Compaction testing.



View of downwind camp station.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:30:00 AM	0.0		0.000
9:31:00 AM	0.0	0.011	0.000
9:32:00 AM	0.0	0.006	0.000
9:33:00 AM	0.0	0.004	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.014	0.000
9:36:00 AM	0.0	0.024	0.000
9:37:00 AM	0.0	0.006	0.000
9:38:00 AM	0.0	0.004	0.000
9:39:00 AM	0.0	0.004	0.000
9:40:00 AM	0.0	0.006	0.000
9:41:00 AM	0.0	0.006	0.000
9:42:00 AM	0.0	0.005	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.012	0.000
9:45:00 AM	0.0	0.008	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.008	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.006	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.004	0.000
9:52:00 AM	0.0	0.004	0.000
9:53:00 AM	0.0	0.004	0.000
9:54:00 AM	0.0	0.005	0.000
9:55:00 AM	0.0	0.014	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.010	0.000
10:00:00 AM	0.0	0.008	0.000
10:01:00 AM	0.0	0.008	0.000
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.004	0.000
10:04:00 AM	0.0	0.004	0.000
10:05:00 AM	0.0	0.004	0.000
10:06:00 AM	0.0	0.004	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.008	0.000
10:09:00 AM	0.0	0.011	0.000
10:10:00 AM	0.0	0.008	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.005	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.004	0.000
10:21:00 AM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.018	0.000
10:24:00 AM	0.0	0.010	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.004	0.000
10:28:00 AM	0.0	0.004	0.000
10:29:00 AM	0.0	0.004	0.000
10:30:00 AM	0.0	0.004	0.000
10:31:00 AM	0.0	0.005	0.000
10:32:00 AM	0.0	0.004	0.000
10:33:00 AM	0.0	0.004	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.004	0.000
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.006	0.000
10:48:00 AM	0.0	0.010	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.004	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.008	0.000
10:53:00 AM	0.0	0.004	0.000
10:54:00 AM	0.0	0.006	0.000
10:55:00 AM	0.0	0.018	0.000
10:56:00 AM	0.0	0.015	0.000
10:57:00 AM	0.0	0.011	0.000
10:58:00 AM	0.0	0.009	0.000
10:59:00 AM	0.0	0.006	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.008	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.006	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.006	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.007	0.000
11:14:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:15:00 AM	0.0	0.007	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.005	0.000
11:18:00 AM	0.0	0.004	0.000
11:19:00 AM	0.0	0.005	0.000
11:20:00 AM	0.0	0.007	0.000
11:21:00 AM	0.0	0.006	0.000
11:22:00 AM	0.0	0.004	0.000
11:23:00 AM	0.0	0.005	0.000
11:24:00 AM	0.0	0.004	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.005	0.000
11:30:00 AM	0.0	0.004	0.000
11:31:00 AM	0.0	0.004	0.000
11:32:00 AM	0.0	0.004	0.000
11:33:00 AM	0.0	0.004	0.000
11:34:00 AM	0.0	0.013	0.000
11:35:00 AM	0.0	0.007	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.006	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.006	0.000
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.005	0.000
11:43:00 AM	0.0	0.004	0.000
11:44:00 AM	0.0	0.003	0.000
11:45:00 AM	0.0	0.010	0.000
11:46:00 AM	0.0	0.012	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.008	0.000
11:49:00 AM	0.0	0.006	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.007	0.000
11:52:00 AM	0.0	0.005	0.000
11:53:00 AM	0.0	0.005	0.000
11:54:00 AM	0.0	0.005	0.000
11:55:00 AM	0.0	0.005	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.007	0.000
11:58:00 AM	0.0	0.004	0.000
11:59:00 AM	0.0	0.004	0.000
12:00:00 PM	0.0	0.004	0.000
12:01:00 PM	0.0	0.005	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.005	0.000
12:04:00 PM	0.0	0.006	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:08:00 PM	0.0	0.006	0.000
12:09:00 PM	0.0	0.007	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.005	0.000
12:12:00 PM	0.0	0.006	0.000
12:13:00 PM	0.0	0.006	0.000
12:14:00 PM	0.0	0.006	0.000
12:15:00 PM	0.0	0.006	0.000
12:16:00 PM	0.0	0.006	0.000
12:17:00 PM	0.0	0.006	0.000
12:18:00 PM	0.0	0.006	0.000
12:19:00 PM	0.1	0.005	0.000
12:20:00 PM	0.0	0.006	0.000
12:21:00 PM	0.0	0.006	0.000
12:22:00 PM	0.0	0.005	0.000
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.005	0.000
12:27:00 PM	0.0	0.005	0.000
12:28:00 PM	0.0	0.006	0.000
12:29:00 PM	0.0	0.006	0.000
12:30:00 PM	0.0	0.005	0.000
12:31:00 PM	0.0	0.006	0.000
12:32:00 PM	0.0	0.007	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.005	0.000
12:35:00 PM	0.0	0.004	0.000
12:36:00 PM	0.0	0.004	0.000
12:37:00 PM	0.0	0.004	0.000
12:38:00 PM	0.0	0.003	0.000
12:39:00 PM	0.0	0.003	0.000
12:40:00 PM	0.0	0.004	0.000
12:41:00 PM	0.0	0.003	0.000
12:42:00 PM	0.0	0.005	0.000
12:43:00 PM	0.0	0.005	0.000
12:44:00 PM	0.0	0.006	0.000
12:45:00 PM	0.0	0.007	0.000
12:46:00 PM	0.0	0.005	0.000
12:47:00 PM	0.0	0.006	0.000
12:48:00 PM	0.0	0.007	0.000
12:49:00 PM	0.0	0.006	0.000
12:50:00 PM	0.0	0.006	0.000
12:51:00 PM	0.0	0.012	0.000
12:52:00 PM	0.0	0.006	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.1	0.023	0.000
12:55:00 PM	0.0	0.020	0.000
12:56:00 PM	0.0	0.009	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.1	0.009	0.000
12:59:00 PM	0.0	0.009	0.000
1:00:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:01:00 PM	0.0	0.006	0.000
1:02:00 PM	0.0	0.006	0.000
1:03:00 PM	0.0	0.009	0.000
1:04:00 PM	0.1	0.007	0.000
1:05:00 PM	0.0	0.007	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.007	0.000
1:08:00 PM	0.0	0.007	0.000
1:09:00 PM	0.1	0.005	0.000
1:10:00 PM	0.0	0.006	0.000
1:11:00 PM	0.0	0.005	0.000
1:12:00 PM	0.0	0.006	0.000
1:13:00 PM	0.1	0.006	0.000
1:14:00 PM	0.0	0.005	0.000
1:15:00 PM	0.0	0.005	0.000
1:16:00 PM	0.0	0.004	0.000
1:17:00 PM	0.0	0.004	0.000
1:18:00 PM	0.0	0.005	0.000
1:19:00 PM	0.0	0.006	0.000
1:20:00 PM	0.0	0.006	0.000
1:21:00 PM	0.0	0.004	0.000
1:22:00 PM	0.1	0.007	0.000
1:23:00 PM	0.0	0.008	0.000
1:24:00 PM	0.0	0.006	0.000
1:25:00 PM	0.1	0.006	0.000
1:26:00 PM	0.0	0.006	0.000
1:27:00 PM	0.0	0.007	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.006	0.000
1:30:00 PM	0.1	0.004	0.000
1:31:00 PM	0.0	0.010	0.000
1:32:00 PM	0.0	0.007	0.000
1:33:00 PM	0.0	0.009	0.000
1:34:00 PM	0.0	0.008	0.000
1:35:00 PM	0.0	0.006	0.000
1:36:00 PM	0.0	0.005	0.000
1:37:00 PM	0.0	0.004	0.000
1:38:00 PM	0.0	0.005	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.004	0.000
1:41:00 PM	0.0	0.004	0.000
1:42:00 PM	0.0	0.005	0.000
1:43:00 PM	0.0	0.004	0.000
1:44:00 PM	0.0	0.004	0.000
1:45:00 PM	0.0	0.004	0.000
1:46:00 PM	0.0	0.004	0.000
1:47:00 PM	0.0	0.004	0.000
1:48:00 PM	0.0	0.004	0.000
1:49:00 PM	0.0	0.005	0.000
1:50:00 PM	0.1	0.019	0.000
1:51:00 PM	0.0	0.008	0.000
1:52:00 PM	0.2	0.018	0.000
1:53:00 PM	0.1	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
Janurary 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:54:00 PM	0.0	0.010	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.1	0.007	0.000
1:57:00 PM	0.0	0.006	0.000
1:58:00 PM	0.0	0.008	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.1	0.007	0.000
2:01:00 PM	0.1	0.007	0.000
2:02:00 PM	0.0	0.007	0.000
2:03:00 PM	0.0	0.005	0.000
2:04:00 PM	0.1	0.018	0.000
2:05:00 PM	0.0	0.018	0.000
2:06:00 PM	0.0	0.009	0.000
2:07:00 PM	0.1	0.006	0.000
2:08:00 PM	0.1	0.004	0.000
2:09:00 PM	0.1	0.008	0.000
2:10:00 PM	0.1	0.005	0.000
2:11:00 PM	0.0	0.006	0.000
2:12:00 PM	0.1	0.005	0.000
2:13:00 PM	0.1	0.007	0.000
2:14:00 PM	0.1	0.008	0.000
2:15:00 PM	0.1	0.007	0.000
2:16:00 PM	0.0	0.007	0.000
2:17:00 PM	0.1	0.006	0.000
2:18:00 PM	0.1	0.005	0.000
2:19:00 PM	0.1	0.005	0.000
2:20:00 PM	0.1	0.004	0.000
2:21:00 PM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:31:00 AM	0.0		0.000
9:32:00 AM	0.0	0.051	0.000
9:33:00 AM	0.0	0.006	0.000
9:34:00 AM	0.0	0.009	0.000
9:35:00 AM	0.0	0.011	0.000
9:36:00 AM	0.0	0.005	0.000
9:37:00 AM	0.2	0.006	0.000
9:38:00 AM	0.1	0.005	0.000
9:39:00 AM	0.1	0.007	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.1	0.007	0.000
9:42:00 AM	0.0	0.006	0.000
9:43:00 AM	0.0	0.011	0.000
9:44:00 AM	0.1	0.008	0.000
9:45:00 AM	0.1	0.006	0.000
9:46:00 AM	0.1	0.011	0.000
9:47:00 AM	0.1	0.006	0.000
9:48:00 AM	0.1	0.010	0.000
9:49:00 AM	0.1	0.004	0.000
9:50:00 AM	0.1	0.005	0.000
9:51:00 AM	0.1	0.005	0.000
9:52:00 AM	0.1	0.005	0.000
9:53:00 AM	0.1	0.006	0.000
9:54:00 AM	0.1	0.007	0.000
9:55:00 AM	0.1	0.017	0.000
9:56:00 AM	0.1	0.025	0.000
9:57:00 AM	0.1	0.006	0.000
9:58:00 AM	0.1	0.004	0.000
9:59:00 AM	0.1	0.015	0.000
10:00:00 AM	0.1	0.013	0.000
10:01:00 AM	0.1	0.008	0.000
10:02:00 AM	0.1	0.007	0.000
10:03:00 AM	0.1	0.006	0.000
10:04:00 AM	0.1	0.006	0.000
10:05:00 AM	0.1	0.004	0.000
10:06:00 AM	0.1	0.007	0.000
10:07:00 AM	0.1	0.017	0.000
10:08:00 AM	0.1	0.016	0.000
10:09:00 AM	0.1	0.009	0.000
10:10:00 AM	0.1	0.028	0.000
10:11:00 AM	0.1	0.015	0.000
10:12:00 AM	0.1	0.021	0.000
10:13:00 AM	0.1	0.012	0.000
10:14:00 AM	0.1	0.007	0.000
10:15:00 AM	0.1	0.012	0.000
10:16:00 AM	0.1	0.016	0.000
10:17:00 AM	0.1	0.021	0.000
10:18:00 AM	0.1	0.018	0.000
10:19:00 AM	0.1	0.009	0.000
10:20:00 AM	0.1	0.017	0.000
10:21:00 AM	0.1	0.007	0.000
10:22:00 AM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:23:00 AM	0.1	0.019	0.000
10:24:00 AM	0.1	0.010	0.000
10:25:00 AM	0.1	0.005	0.000
10:26:00 AM	0.1	0.005	0.000
10:27:00 AM	0.1	0.004	0.000
10:28:00 AM	0.1	0.004	0.000
10:29:00 AM	0.1	0.006	0.000
10:30:00 AM	0.1	0.005	0.000
10:31:00 AM	0.1	0.005	0.000
10:32:00 AM	0.1	0.004	0.000
10:33:00 AM	0.1	0.004	0.000
10:34:00 AM	0.1	0.005	0.000
10:35:00 AM	0.1	0.005	0.000
10:36:00 AM	0.1	0.005	0.000
10:37:00 AM	0.1	0.005	0.000
10:38:00 AM	0.1	0.006	0.000
10:39:00 AM	0.1	0.006	0.000
10:40:00 AM	0.1	0.006	0.000
10:41:00 AM	0.1	0.006	0.000
10:42:00 AM	0.1	0.007	0.000
10:43:00 AM	0.1	0.006	0.000
10:44:00 AM	0.1	0.008	0.000
10:45:00 AM	0.1	0.010	0.000
10:46:00 AM	0.1	0.009	0.000
10:47:00 AM	0.1	0.007	0.000
10:48:00 AM	0.1	0.017	0.000
10:49:00 AM	0.1	0.013	0.000
10:50:00 AM	0.1	0.007	0.000
10:51:00 AM	0.1	0.014	0.000
10:52:00 AM	0.1	0.005	0.000
10:53:00 AM	0.1	0.013	0.000
10:54:00 AM	0.1	0.010	0.000
10:55:00 AM	0.1	0.056	0.000
10:56:00 AM	0.1	0.015	0.000
10:57:00 AM	0.1	0.010	0.000
10:58:00 AM	0.1	0.020	0.000
10:59:00 AM	0.1	0.014	0.000
11:00:00 AM	0.1	0.015	0.000
11:01:00 AM	0.1	0.012	0.000
11:02:00 AM	0.1	0.010	0.000
11:03:00 AM	0.1	0.009	0.000
11:04:00 AM	0.1	0.010	0.000
11:05:00 AM	0.1	0.010	0.000
11:06:00 AM	0.1	0.006	0.000
11:07:00 AM	0.1	0.009	0.000
11:08:00 AM	0.1	0.007	0.000
11:09:00 AM	0.1	0.006	0.000
11:10:00 AM	0.1	0.007	0.000
11:11:00 AM	0.1	0.008	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.007	0.000
11:14:00 AM	0.1	0.008	0.000
11:15:00 AM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:16:00 AM	0.1	0.008	0.000
11:17:00 AM	0.1	0.005	0.000
11:18:00 AM	0.1	0.005	0.000
11:19:00 AM	0.1	0.012	0.000
11:20:00 AM	0.1	0.006	0.000
11:21:00 AM	0.1	0.005	0.000
11:22:00 AM	0.1	0.007	0.000
11:23:00 AM	0.1	0.007	0.000
11:24:00 AM	0.1	0.006	0.000
11:25:00 AM	0.1	0.007	0.000
11:26:00 AM	0.1	0.009	0.000
11:27:00 AM	0.1	0.005	0.000
11:28:00 AM	0.1	0.009	0.000
11:29:00 AM	0.1	0.006	0.000
11:30:00 AM	0.1	0.004	0.000
11:31:00 AM	0.1	0.004	0.000
11:32:00 AM	0.1	0.005	0.000
11:33:00 AM	0.1	0.007	0.000
11:34:00 AM	0.1	0.007	0.000
11:35:00 AM	0.1	0.010	0.000
11:36:00 AM	0.1	0.013	0.000
11:37:00 AM	0.1	0.009	0.000
11:38:00 AM	0.1	0.005	0.000
11:39:00 AM	0.1	0.008	0.000
11:40:00 AM	0.1	0.011	0.000
11:41:00 AM	0.1	0.022	0.000
11:42:00 AM	0.1	0.038	0.000
11:43:00 AM	0.1	0.009	0.000
11:44:00 AM	0.1	0.011	0.000
11:45:00 AM	0.1	0.041	0.000
11:46:00 AM	0.1	0.029	0.000
11:47:00 AM	0.1	0.011	0.000
11:48:00 AM	0.1	0.007	0.000
11:49:00 AM	0.1	0.012	0.000
11:50:00 AM	0.1	0.010	0.000
11:51:00 AM	0.1	0.005	0.000
11:52:00 AM	0.1	0.004	0.000
11:53:00 AM	0.1	0.007	0.000
11:54:00 AM	0.1	0.009	0.000
11:55:00 AM	0.1	0.005	0.000
11:56:00 AM	0.1	0.006	0.000
11:57:00 AM	0.1	0.004	0.000
11:58:00 AM	0.1	0.003	0.000
11:59:00 AM	0.1	0.003	0.000
12:00:00 PM	0.1	0.004	0.000
12:01:00 PM	0.1	0.004	0.000
12:02:00 PM	0.1	0.003	0.000
12:03:00 PM	0.1	0.003	0.000
12:04:00 PM	0.1	0.006	0.000
12:05:00 PM	0.1	0.004	0.000
12:06:00 PM	0.1	0.004	0.000
12:07:00 PM	0.1	0.005	0.000
12:08:00 PM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:09:00 PM	0.1	0.005	0.000
12:10:00 PM	0.1	0.004	0.000
12:11:00 PM	0.1	0.005	0.000
12:12:00 PM	0.1	0.006	0.000
12:13:00 PM	0.1	0.005	0.000
12:14:00 PM	0.1	0.004	0.000
12:15:00 PM	0.1	0.004	0.000
12:16:00 PM	0.1	0.005	0.000
12:17:00 PM	0.1	0.005	0.000
12:18:00 PM	0.1	0.004	0.000
12:19:00 PM	0.1	0.004	0.000
12:20:00 PM	0.1	0.004	0.000
12:21:00 PM	0.1	0.004	0.000
12:22:00 PM	0.1	0.004	0.000
12:23:00 PM	0.1	0.006	0.000
12:24:00 PM	0.1	0.004	0.000
12:25:00 PM	0.1	0.004	0.000
12:26:00 PM	0.1	0.004	0.000
12:27:00 PM	0.1	0.004	0.000
12:28:00 PM	0.1	0.004	0.000
12:29:00 PM	0.1	0.005	0.000
12:30:00 PM	0.1	0.004	0.000
12:31:00 PM	0.1	0.003	0.000
12:32:00 PM	0.1	0.012	0.000
12:33:00 PM	0.1	0.004	0.000
12:34:00 PM	0.1	0.005	0.000
12:35:00 PM	0.1	0.004	0.000
12:36:00 PM	0.1	0.003	0.000
12:37:00 PM	0.1	0.003	0.000
12:38:00 PM	0.1	0.002	0.000
12:39:00 PM	0.1	0.002	0.000
12:40:00 PM	0.1	0.002	0.000
12:41:00 PM	0.1	0.002	0.000
12:42:00 PM	0.1	0.005	0.000
12:43:00 PM	0.1	0.007	0.000
12:44:00 PM	0.1	0.005	0.000
12:45:00 PM	0.1	0.008	0.000
12:46:00 PM	0.1	0.010	0.000
12:47:00 PM	0.1	0.010	0.000
12:48:00 PM	0.1	0.007	0.000
12:49:00 PM	0.2	0.006	0.000
12:50:00 PM	0.1	0.005	0.000
12:51:00 PM	0.1	0.019	0.000
12:52:00 PM	0.1	0.007	0.000
12:53:00 PM	0.1	0.012	0.000
12:54:00 PM	0.1	0.006	0.000
12:55:00 PM	0.1	0.011	0.000
12:56:00 PM	0.1	0.008	0.000
12:57:00 PM	0.1	0.017	0.000
12:58:00 PM	0.1	0.006	0.000
12:59:00 PM	0.1	0.010	0.000
1:00:00 PM	0.1	0.007	0.000
1:01:00 PM	0.1	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:02:00 PM	0.1	0.011	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.005	0.000
1:05:00 PM	0.1	0.012	0.000
1:06:00 PM	0.1	0.007	0.000
1:07:00 PM	0.1	0.007	0.000
1:08:00 PM	0.1	0.004	0.000
1:09:00 PM	0.1	0.004	0.000
1:10:00 PM	0.1	0.004	0.000
1:11:00 PM	0.1	0.004	0.000
1:12:00 PM	0.1	0.004	0.000
1:13:00 PM	0.1	0.004	0.000
1:14:00 PM	0.1	0.006	0.000
1:15:00 PM	0.1	0.005	0.000
1:16:00 PM	0.1	0.010	0.000
1:17:00 PM	0.1	0.003	0.000
1:18:00 PM	0.1	0.003	0.000
1:19:00 PM	0.1	0.005	0.000
1:20:00 PM	0.1	0.005	0.000
1:21:00 PM	0.1	0.005	0.000
1:22:00 PM	0.1	0.007	0.000
1:23:00 PM	0.1	0.007	0.000
1:24:00 PM	0.1	0.016	0.000
1:25:00 PM	0.1	0.010	0.000
1:26:00 PM	0.1	0.006	0.000
1:27:00 PM	0.1	0.015	0.000
1:28:00 PM	0.1	0.011	0.000
1:29:00 PM	0.1	0.015	0.000
1:30:00 PM	0.1	0.006	0.000
1:31:00 PM	0.1	0.007	0.000
1:32:00 PM	0.1	0.012	0.000
1:33:00 PM	0.1	0.019	0.000
1:34:00 PM	0.1	0.010	0.000
1:35:00 PM	0.1	0.006	0.000
1:36:00 PM	0.1	0.003	0.000
1:37:00 PM	0.1	0.005	0.000
1:38:00 PM	0.1	0.005	0.000
1:39:00 PM	0.1	0.015	0.000
1:40:00 PM	0.1	0.002	0.000
1:41:00 PM	0.1	0.003	0.000
1:42:00 PM	0.1	0.009	0.000
1:43:00 PM	0.1	0.003	0.000
1:44:00 PM	0.1	0.026	0.000
1:45:00 PM	0.1	0.004	0.000
1:46:00 PM	0.1	0.004	0.000
1:47:00 PM	0.1	0.010	0.000
1:48:00 PM	0.1	0.003	0.000
1:49:00 PM	0.1	0.005	0.000
1:50:00 PM	0.1	0.008	0.000
1:51:00 PM	0.1	0.011	0.000
1:52:00 PM	0.1	0.006	0.000
1:53:00 PM	0.1	0.011	0.000
1:54:00 PM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:55:00 PM	0.1	0.009	0.000
1:56:00 PM	0.1	0.007	0.000
1:57:00 PM	0.1	0.006	0.000
1:58:00 PM	0.1	0.010	0.000
1:59:00 PM	0.1	0.006	0.000
2:00:00 PM	0.1	0.006	0.000
2:01:00 PM	0.1	0.006	0.000
2:02:00 PM	0.1	0.005	0.000
2:03:00 PM	0.1	0.006	0.000
2:04:00 PM	0.1	0.016	0.000
2:05:00 PM	0.1	0.008	0.000
2:06:00 PM	0.1	0.005	0.000
2:07:00 PM	0.1	0.004	0.000
2:08:00 PM	0.1	0.004	0.000
2:09:00 PM	0.1	0.006	0.000
2:10:00 PM	0.1	0.007	0.000
2:11:00 PM	0.1	0.006	0.000
2:12:00 PM	0.1	0.009	0.000
2:13:00 PM	0.1	0.007	0.000
2:14:00 PM	0.1	0.008	0.000
2:15:00 PM	0.1	0.008	0.000
2:16:00 PM	0.1	0.016	0.000
2:17:00 PM	0.1	0.012	0.000
2:18:00 PM	0.1	0.038	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:33:00 AM	0.1		0.000
9:34:00 AM	0.1	0.031	0.000
9:35:00 AM	0.1	0.006	0.000
9:36:00 AM	0.1	0.005	0.000
9:37:00 AM	0.1	0.018	0.000
9:38:00 AM	0.1	0.008	0.000
9:39:00 AM	0.1	0.009	0.000
9:40:00 AM	0.1	0.018	0.000
9:41:00 AM	0.1	0.009	0.000
9:42:00 AM	0.1	0.010	0.000
9:43:00 AM	0.1	0.007	0.000
9:44:00 AM	0.1	0.008	0.000
9:45:00 AM	0.1	0.007	0.000
9:46:00 AM	0.1	0.007	0.000
9:47:00 AM	0.1	0.007	0.000
9:48:00 AM	0.1	0.007	0.000
9:49:00 AM	0.1	0.006	0.000
9:50:00 AM	0.1	0.005	0.000
9:51:00 AM	0.1	0.006	0.000
9:52:00 AM	0.1	0.006	0.000
9:53:00 AM	0.1	0.007	0.000
9:54:00 AM	0.1	0.006	0.000
9:55:00 AM	0.1	0.010	0.000
9:56:00 AM	0.1	0.008	0.000
9:57:00 AM	0.1	0.006	0.000
9:58:00 AM	0.1	0.006	0.000
9:59:00 AM	0.1	0.009	0.000
10:00:00 AM	0.1	0.006	0.000
10:01:00 AM	0.1	0.007	0.000
10:02:00 AM	0.1	0.006	0.000
10:03:00 AM	0.1	0.006	0.000
10:04:00 AM	0.1	0.005	0.000
10:05:00 AM	0.1	0.005	0.000
10:06:00 AM	0.1	0.006	0.000
10:07:00 AM	0.1	0.006	0.000
10:08:00 AM	0.2	0.006	0.000
10:09:00 AM	0.1	0.007	0.000
10:10:00 AM	0.2	0.006	0.000
10:11:00 AM	0.2	0.009	0.000
10:12:00 AM	0.2	0.010	0.000
10:13:00 AM	0.2	0.014	0.000
10:14:00 AM	0.2	0.006	0.000
10:15:00 AM	0.2	0.006	0.000
10:16:00 AM	0.2	0.007	0.000
10:17:00 AM	0.2	0.006	0.000
10:18:00 AM	0.2	0.007	0.000
10:19:00 AM	0.2	0.005	0.000
10:20:00 AM	0.2	0.007	0.000
10:21:00 AM	0.2	0.004	0.000
10:22:00 AM	0.2	0.007	0.000
10:23:00 AM	0.2	0.013	0.000
10:24:00 AM	0.2	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:25:00 AM	0.2	0.005	0.000
10:26:00 AM	0.2	0.005	0.000
10:27:00 AM	0.2	0.005	0.000
10:28:00 AM	0.2	0.005	0.000
10:29:00 AM	0.2	0.008	0.000
10:30:00 AM	0.2	0.007	0.000
10:31:00 AM	0.2	0.004	0.000
10:32:00 AM	0.2	0.005	0.000
10:33:00 AM	0.2	0.005	0.000
10:34:00 AM	0.2	0.005	0.000
10:35:00 AM	0.2	0.007	0.000
10:36:00 AM	0.2	0.006	0.000
10:37:00 AM	0.2	0.006	0.000
10:38:00 AM	0.2	0.007	0.000
10:39:00 AM	0.2	0.007	0.000
10:40:00 AM	0.2	0.009	0.000
10:41:00 AM	0.2	0.012	0.000
10:42:00 AM	0.2	0.023	0.000
10:43:00 AM	0.2	0.008	0.000
10:44:00 AM	0.2	0.008	0.000
10:45:00 AM	0.2	0.007	0.000
10:46:00 AM	0.2	0.007	0.000
10:47:00 AM	0.2	0.006	0.000
10:48:00 AM	0.2	0.009	0.000
10:49:00 AM	0.2	0.006	0.000
10:50:00 AM	0.2	0.008	0.000
10:51:00 AM	0.2	0.006	0.000
10:52:00 AM	0.2	0.005	0.000
10:53:00 AM	0.2	0.007	0.000
10:54:00 AM	0.2	0.007	0.000
10:55:00 AM	0.2	0.008	0.000
10:56:00 AM	0.2	0.008	0.000
10:57:00 AM	0.2	0.012	0.000
10:58:00 AM	0.2	0.008	0.000
10:59:00 AM	0.2	0.006	0.000
11:00:00 AM	0.2	0.006	0.000
11:01:00 AM	0.2	0.008	0.000
11:02:00 AM	0.2	0.008	0.000
11:03:00 AM	0.2	0.014	0.000
11:04:00 AM	0.2	0.008	0.000
11:05:00 AM	0.2	0.009	0.000
11:06:00 AM	0.3	0.008	0.000
11:07:00 AM	0.3	0.011	0.000
11:08:00 AM	0.2	0.006	0.000
11:09:00 AM	0.2	0.006	0.000
11:10:00 AM	0.2	0.008	0.000
11:11:00 AM	0.3	0.007	0.000
11:12:00 AM	0.3	0.007	0.000
11:13:00 AM	0.3	0.008	0.000
11:14:00 AM	0.3	0.009	0.000
11:15:00 AM	0.3	0.006	0.000
11:16:00 AM	0.3	0.006	0.000
11:17:00 AM	0.3	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:18:00 AM	0.3	0.004	0.000
11:19:00 AM	0.3	0.008	0.000
11:20:00 AM	0.3	0.006	0.000
11:21:00 AM	0.3	0.005	0.000
11:22:00 AM	0.3	0.005	0.000
11:23:00 AM	0.3	0.005	0.000
11:24:00 AM	0.3	0.007	0.000
11:25:00 AM	0.3	0.006	0.000
11:26:00 AM	0.3	0.007	0.000
11:27:00 AM	0.3	0.005	0.000
11:28:00 AM	0.3	0.006	0.000
11:29:00 AM	0.3	0.005	0.000
11:30:00 AM	0.3	0.004	0.000
11:31:00 AM	0.3	0.005	0.000
11:32:00 AM	0.3	0.005	0.000
11:33:00 AM	0.3	0.005	0.000
11:34:00 AM	0.3	0.007	0.000
11:35:00 AM	0.3	0.007	0.000
11:36:00 AM	0.3	0.006	0.000
11:37:00 AM	0.3	0.005	0.000
11:38:00 AM	0.3	0.005	0.000
11:39:00 AM	0.3	0.007	0.000
11:40:00 AM	0.3	0.007	0.000
11:41:00 AM	0.3	0.006	0.000
11:42:00 AM	0.3	0.006	0.000
11:43:00 AM	0.3	0.005	0.000
11:44:00 AM	0.3	0.005	0.000
11:45:00 AM	0.3	0.006	0.000
11:46:00 AM	0.3	0.008	0.000
11:47:00 AM	0.3	0.006	0.000
11:48:00 AM	0.3	0.009	0.000
11:49:00 AM	0.3	0.007	0.000
11:50:00 AM	0.3	0.008	0.000
11:51:00 AM	0.3	0.005	0.000
11:52:00 AM	0.3	0.005	0.000
11:53:00 AM	0.3	0.021	0.000
11:54:00 AM	0.3	0.005	0.000
11:55:00 AM	0.3	0.008	0.000
11:56:00 AM	0.3	0.008	0.000
11:57:00 AM	0.3	0.006	0.000
11:58:00 AM	0.3	0.005	0.000
11:59:00 AM	0.3	0.006	0.000
12:00:00 PM	0.3	0.005	0.000
12:01:00 PM	0.3	0.004	0.000
12:02:00 PM	0.3	0.004	0.000
12:03:00 PM	0.3	0.004	0.000
12:04:00 PM	0.3	0.005	0.000
12:05:00 PM	0.3	0.004	0.000
12:06:00 PM	0.3	0.004	0.000
12:07:00 PM	0.3	0.009	0.000
12:08:00 PM	0.3	0.005	0.000
12:09:00 PM	0.3	0.006	0.000
12:10:00 PM	0.3	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:11:00 PM	0.3	0.006	0.000
12:12:00 PM	0.3	0.007	0.000
12:13:00 PM	0.3	0.007	0.000
12:14:00 PM	0.3	0.005	0.000
12:15:00 PM	0.3	0.005	0.000
12:16:00 PM	0.3	0.006	0.000
12:17:00 PM	0.3	0.005	0.000
12:18:00 PM	0.3	0.005	0.000
12:19:00 PM	0.3	0.005	0.000
12:20:00 PM	0.3	0.005	0.000
12:21:00 PM	0.3	0.005	0.000
12:22:00 PM	0.3	0.005	0.000
12:23:00 PM	0.3	0.005	0.000
12:24:00 PM	0.3	0.006	0.000
12:25:00 PM	0.3	0.005	0.000
12:26:00 PM	0.3	0.005	0.000
12:27:00 PM	0.3	0.005	0.000
12:28:00 PM	0.3	0.005	0.000
12:29:00 PM	0.3	0.006	0.000
12:30:00 PM	0.3	0.006	0.000
12:31:00 PM	0.3	0.004	0.000
12:32:00 PM	0.3	0.004	0.000
12:33:00 PM	0.3	0.004	0.000
12:34:00 PM	0.3	0.003	0.000
12:35:00 PM	0.3	0.004	0.000
12:36:00 PM	0.3	0.003	0.000
12:37:00 PM	0.3	0.002	0.000
12:38:00 PM	0.3	0.003	0.000
12:39:00 PM	0.3	0.002	0.000
12:40:00 PM	0.3	0.002	0.000
12:41:00 PM	0.3	0.003	0.000
12:42:00 PM	0.3	0.004	0.000
12:43:00 PM	0.3	0.006	0.000
12:44:00 PM	0.3	0.006	0.000
12:45:00 PM	0.3	0.006	0.000
12:46:00 PM	0.3	0.008	0.000
12:47:00 PM	0.3	0.007	0.000
12:48:00 PM	0.3	0.005	0.000
12:49:00 PM	0.3	0.005	0.000
12:50:00 PM	0.3	0.005	0.000
12:51:00 PM	0.3	0.004	0.000
12:52:00 PM	0.3	0.005	0.000
12:53:00 PM	0.3	0.005	0.000
12:54:00 PM	0.3	0.006	0.000
12:55:00 PM	0.3	0.006	0.000
12:56:00 PM	0.3	0.005	0.000
12:57:00 PM	0.3	0.004	0.000
12:58:00 PM	0.3	0.004	0.000
12:59:00 PM	0.3	0.003	0.000
1:00:00 PM	0.3	0.003	0.000
1:01:00 PM	0.3	0.003	0.000
1:02:00 PM	0.3	0.004	0.000
1:03:00 PM	0.3	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:04:00 PM	0.3	0.004	0.000
1:05:00 PM	0.3	0.006	0.000
1:06:00 PM	0.3	0.006	0.000
1:07:00 PM	0.3	0.004	0.000
1:08:00 PM	0.3	0.004	0.000
1:09:00 PM	0.3	0.003	0.000
1:10:00 PM	0.3	0.004	0.000
1:11:00 PM	0.3	0.004	0.000
1:12:00 PM	0.3	0.005	0.000
1:13:00 PM	0.3	0.004	0.000
1:14:00 PM	0.3	0.006	0.000
1:15:00 PM	0.3	0.004	0.000
1:16:00 PM	0.3	0.005	0.000
1:17:00 PM	0.3	0.003	0.000
1:18:00 PM	0.3	0.003	0.000
1:19:00 PM	0.3	0.003	0.000
1:20:00 PM	0.3	0.002	0.000
1:21:00 PM	0.3	0.003	0.000
1:22:00 PM	0.3	0.004	0.000
1:23:00 PM	0.3	0.006	0.000
1:24:00 PM	0.3	0.006	0.000
1:25:00 PM	0.3	0.005	0.000
1:26:00 PM	0.3	0.004	0.000
1:27:00 PM	0.3	0.006	0.000
1:28:00 PM	0.3	0.006	0.000
1:29:00 PM	0.3	0.003	0.000
1:30:00 PM	0.3	0.003	0.000
1:31:00 PM	0.3	0.002	0.000
1:32:00 PM	0.3	0.003	0.000
1:33:00 PM	0.3	0.003	0.000
1:34:00 PM	0.3	0.003	0.000
1:35:00 PM	0.3	0.003	0.000
1:36:00 PM	0.3	0.003	0.000
1:37:00 PM	0.3	0.002	0.000
1:38:00 PM	0.3	0.003	0.000
1:39:00 PM	0.3	0.003	0.000
1:40:00 PM	0.3	0.002	0.000
1:41:00 PM	0.3	0.004	0.000
1:42:00 PM	0.3	0.003	0.000
1:43:00 PM	0.3	0.003	0.000
1:44:00 PM	0.3	0.007	0.000
1:45:00 PM	0.3	0.002	0.000
1:46:00 PM	0.3	0.002	0.000
1:47:00 PM	0.3	0.006	0.000
1:48:00 PM	0.3	0.002	0.000
1:49:00 PM	0.3	0.002	0.000
1:50:00 PM	0.3	0.001	0.000
1:51:00 PM	0.3	0.002	0.000
1:52:00 PM	0.3	0.003	0.000
1:53:00 PM	0.3	0.005	0.000
1:54:00 PM	0.3	0.006	0.000
1:55:00 PM	0.3	0.004	0.000
1:56:00 PM	0.3	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
January 29, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:57:00 PM	0.3	0.005	0.000
1:58:00 PM	0.3	0.006	0.000
1:59:00 PM	0.3	0.005	0.000
2:00:00 PM	0.3	0.006	0.000
2:01:00 PM	0.3	0.005	0.000
2:02:00 PM	0.3	0.004	0.000
2:03:00 PM	0.3	0.005	0.000
2:04:00 PM	0.3	0.004	0.000
2:05:00 PM	0.3	0.005	0.000
2:06:00 PM	0.3	0.004	0.000
2:07:00 PM	0.3	0.003	0.000
2:08:00 PM	0.3	0.003	0.000
2:09:00 PM	0.3	0.006	0.000
2:10:00 PM	0.3	0.005	0.000
2:11:00 PM	0.3	0.004	0.000
2:12:00 PM	0.3	0.005	0.000
2:13:00 PM	0.3	0.005	0.000
2:14:00 PM	0.3	0.006	0.000
2:15:00 PM	0.3	0.005	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 29 mph	Date:	3/2/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco removing digging box from previously backfilled excavation. Aarco exposing dry well top and excavating soils from around the dry well structure. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor. Preferred collected endpoint sample CM-EP-05 B(1') from area # 1 and submitted the same for laboratory analysis. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.5	0.004	0.000	0.9	0.005	0.000
Down Wind	0.2	0.006	0.000	0.3	0.008	0.000
Work Zone	0.2	0.008	0.000	0.3	0.020	0.000

Exceedances (Since Last Report): None

Problems Encountered: Work zone Voc meter not recording data due to unconnected cable from 9:55 to 10:26.

Planned Activities for the Next Day/ Week:

- Aarco will continue to excavate around the dry well.



Preferred conducting daily disinfections of commonly touched surfaces.



Aarco excavating around dry well structure in preparation for digging box.

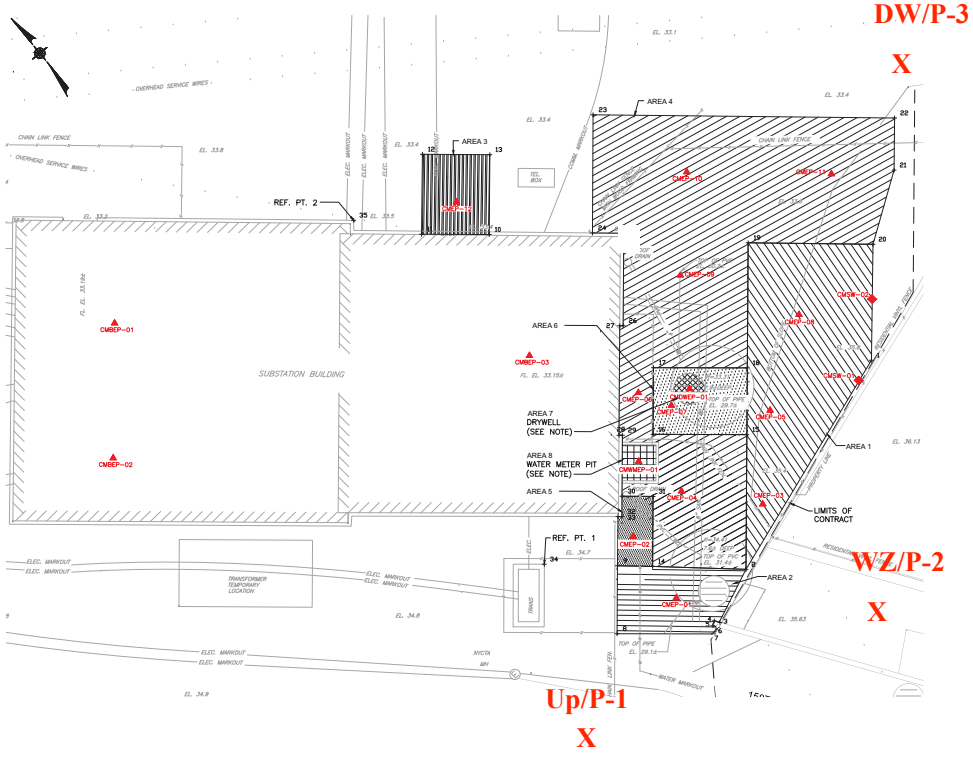


Preferred screening all excavated soils for VOCs and mercury.



Aarco removing plywood and digging box from previous excavation.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:50:00 AM	0.0	0.116	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.005	0.000
9:53:00 AM	0.0	0.005	0.000
9:54:00 AM	0.0	0.004	0.000
9:55:00 AM	0.0	0.004	0.000
9:56:00 AM	0.0	0.004	0.000
9:57:00 AM	0.0	0.004	0.000
9:58:00 AM	0.0	0.003	0.000
9:59:00 AM	0.0	0.004	0.000
10:00:00 AM	0.0	0.004	0.000
10:01:00 AM	0.0	0.004	0.000
10:02:00 AM	0.0	0.004	0.000
10:03:00 AM	0.0	0.010	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.004	0.000
10:06:00 AM	0.0	0.004	0.000
10:07:00 AM	0.0	0.004	0.000
10:08:00 AM	0.0	0.004	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.004	0.000
10:11:00 AM	0.0	0.004	0.000
10:12:00 AM	0.0	0.004	0.000
10:13:00 AM	0.0	0.005	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.004	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.004	0.000
10:18:00 AM	0.0	0.004	0.000
10:19:00 AM	0.0	0.004	0.000
10:20:00 AM	0.0	0.004	0.000
10:21:00 AM	0.0	0.004	0.000
10:22:00 AM	0.0	0.004	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.0	0.003	0.000
10:25:00 AM	0.0	0.003	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.004	0.000
10:28:00 AM	0.0	0.004	0.000
10:29:00 AM	0.1	0.004	0.000
10:30:00 AM	0.2	0.004	0.000
10:31:00 AM	0.1	0.004	0.000
10:32:00 AM	0.0	0.004	0.000
10:33:00 AM	0.1	0.004	0.000
10:34:00 AM	0.1	0.004	0.000
10:35:00 AM	0.0	0.003	0.000
10:36:00 AM	0.1	0.004	0.000
10:37:00 AM	0.0	0.003	0.000
10:38:00 AM	0.1	0.003	0.000
10:39:00 AM	0.1	0.004	0.000
10:40:00 AM	0.1	0.004	0.000
10:41:00 AM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:42:00 AM	0.2	0.005	0.000
10:43:00 AM	0.2	0.005	0.000
10:44:00 AM	0.1	0.004	0.000
10:45:00 AM	0.1	0.003	0.000
10:46:00 AM	0.1	0.005	0.000
10:47:00 AM	0.1	0.005	0.000
10:48:00 AM	0.2	0.005	0.000
10:49:00 AM	0.1	0.004	0.000
10:50:00 AM	0.2	0.004	0.000
10:51:00 AM	0.2	0.004	0.000
10:52:00 AM	0.1	0.004	0.000
10:53:00 AM	0.1	0.003	0.000
10:54:00 AM	0.1	0.004	0.000
10:55:00 AM	0.2	0.004	0.000
10:56:00 AM	0.2	0.004	0.000
10:57:00 AM	0.2	0.005	0.000
10:58:00 AM	0.2	0.004	0.000
10:59:00 AM	0.3	0.004	0.000
11:00:00 AM	0.2	0.003	0.000
11:01:00 AM	0.3	0.003	0.000
11:02:00 AM	0.2	0.003	0.000
11:03:00 AM	0.3	0.003	0.000
11:04:00 AM	0.3	0.003	0.000
11:05:00 AM	0.2	0.003	0.000
11:06:00 AM	0.2	0.004	0.000
11:07:00 AM	0.2	0.004	0.000
11:08:00 AM	0.3	0.004	0.000
11:09:00 AM	0.3	0.004	0.000
11:10:00 AM	0.3	0.004	0.000
11:11:00 AM	0.3	0.004	0.000
11:12:00 AM	0.2	0.003	0.000
11:13:00 AM	0.3	0.004	0.000
11:14:00 AM	0.4	0.004	0.000
11:15:00 AM	0.3	0.004	0.000
11:16:00 AM	0.3	0.005	0.000
11:17:00 AM	0.3	0.004	0.000
11:18:00 AM	0.4	0.004	0.000
11:19:00 AM	0.4	0.005	0.000
11:20:00 AM	0.4	0.004	0.000
11:21:00 AM	0.4	0.005	0.000
11:22:00 AM	0.4	0.004	0.000
11:23:00 AM	0.4	0.004	0.000
11:24:00 AM	0.4	0.004	0.000
11:25:00 AM	0.4	0.004	0.000
11:26:00 AM	0.4	0.004	0.000
11:27:00 AM	0.3	0.003	0.000
11:28:00 AM	0.4	0.003	0.000
11:29:00 AM	0.3	0.005	0.000
11:30:00 AM	0.3	0.009	0.000
11:31:00 AM	0.3	0.004	0.000
11:32:00 AM	0.3	0.005	0.000
11:33:00 AM	0.4	0.004	0.000
11:34:00 AM	0.4	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:35:00 AM	0.4	0.010	0.000
11:36:00 AM	0.4	0.007	0.000
11:37:00 AM	0.4	0.004	0.000
11:38:00 AM	0.4	0.004	0.000
11:39:00 AM	0.4	0.004	0.000
11:40:00 AM	0.4	0.005	0.000
11:41:00 AM	0.5	0.004	0.000
11:42:00 AM	0.4	0.004	0.000
11:43:00 AM	0.4	0.004	0.000
11:44:00 AM	0.5	0.004	0.000
11:45:00 AM	0.5	0.004	0.000
11:46:00 AM	0.5	0.003	0.000
11:47:00 AM	0.4	0.004	0.000
11:48:00 AM	0.4	0.004	0.000
11:49:00 AM	0.5	0.005	0.000
11:50:00 AM	0.5	0.004	0.000
11:51:00 AM	0.5	0.004	0.000
11:52:00 AM	0.6	0.004	0.000
11:53:00 AM	0.6	0.004	0.000
11:54:00 AM	0.6	0.004	0.000
11:55:00 AM	0.5	0.004	0.000
11:56:00 AM	0.6	0.005	0.000
11:57:00 AM	0.6	0.005	0.000
11:58:00 AM	0.6	0.004	0.000
11:59:00 AM	0.6	0.005	0.000
12:00:00 PM	0.6	0.011	0.000
12:01:00 PM	0.6	0.006	0.000
12:02:00 PM	0.5	0.005	0.000
12:03:00 PM	0.6	0.005	0.000
12:04:00 PM	0.6	0.005	0.000
12:05:00 PM	0.5	0.004	0.000
12:06:00 PM	0.7	0.005	0.000
12:07:00 PM	0.6	0.004	0.000
12:08:00 PM	0.6	0.005	0.000
12:09:00 PM	0.6	0.005	0.000
12:10:00 PM	0.6	0.005	0.000
12:11:00 PM	0.7	0.005	0.000
12:12:00 PM	0.7	0.005	0.000
12:13:00 PM	0.6	0.005	0.000
12:14:00 PM	0.6	0.005	0.000
12:15:00 PM	0.6	0.005	0.000
12:16:00 PM	0.6	0.005	0.000
12:17:00 PM	0.6	0.004	0.000
12:18:00 PM	0.6	0.005	0.000
12:19:00 PM	0.6	0.004	0.000
12:20:00 PM	0.6	0.005	0.000
12:21:00 PM	0.6	0.005	0.000
12:22:00 PM	0.6	0.004	0.000
12:23:00 PM	0.7	0.004	0.000
12:24:00 PM	0.7	0.005	0.000
12:25:00 PM	0.6	0.005	0.000
12:26:00 PM	0.6	0.004	0.000
12:27:00 PM	0.6	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:28:00 PM	0.7	0.004	0.000
12:29:00 PM	0.6	0.004	0.000
12:30:00 PM	0.7	0.004	0.000
12:31:00 PM	0.7	0.004	0.000
12:32:00 PM	0.7	0.004	0.000
12:33:00 PM	0.7	0.004	0.000
12:34:00 PM	0.7	0.004	0.000
12:35:00 PM	0.7	0.004	0.000
12:36:00 PM	0.7	0.005	0.000
12:37:00 PM	0.7	0.005	0.000
12:38:00 PM	0.7	0.004	0.000
12:39:00 PM	0.7	0.004	0.000
12:40:00 PM	0.7	0.004	0.000
12:41:00 PM	0.7	0.004	0.000
12:42:00 PM	0.7	0.004	0.000
12:43:00 PM	0.7	0.004	0.000
12:44:00 PM	0.7	0.003	0.000
12:45:00 PM	0.7	0.003	0.000
12:46:00 PM	0.7	0.004	0.000
12:47:00 PM	0.7	0.003	0.000
12:48:00 PM	0.7	0.003	0.000
12:49:00 PM	0.8	0.004	0.000
12:50:00 PM	0.7	0.003	0.000
12:51:00 PM	0.7	0.003	0.000
12:52:00 PM	0.7	0.003	0.000
12:53:00 PM	0.7	0.003	0.000
12:54:00 PM	0.7	0.003	0.000
12:55:00 PM	0.8	0.003	0.000
12:56:00 PM	0.8	0.003	0.000
12:57:00 PM	0.7	0.003	0.000
12:58:00 PM	0.7	0.003	0.000
12:59:00 PM	0.7	0.003	0.000
1:00:00 PM	0.7	0.003	0.000
1:01:00 PM	0.8	0.004	0.000
1:02:00 PM	0.7	0.004	0.000
1:03:00 PM	0.7	0.004	0.000
1:04:00 PM	0.7	0.005	0.000
1:05:00 PM	0.7	0.004	0.000
1:06:00 PM	0.7	0.004	0.000
1:07:00 PM	0.7	0.004	0.000
1:08:00 PM	0.7	0.004	0.000
1:09:00 PM	0.7	0.004	0.000
1:10:00 PM	0.7	0.004	0.000
1:11:00 PM	0.7	0.004	0.000
1:12:00 PM	0.7	0.004	0.000
1:13:00 PM	0.7	0.004	0.000
1:14:00 PM	0.7	0.004	0.000
1:15:00 PM	0.7	0.005	0.000
1:16:00 PM	0.7	0.004	0.000
1:17:00 PM	0.7	0.004	0.000
1:18:00 PM	0.7	0.003	0.000
1:19:00 PM	0.7	0.004	0.000
1:20:00 PM	0.7	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:21:00 PM	0.7	0.004	0.000
1:22:00 PM	0.6	0.003	0.000
1:23:00 PM	0.7	0.004	0.000
1:24:00 PM	0.7	0.004	0.000
1:25:00 PM	0.7	0.004	0.000
1:26:00 PM	0.7	0.004	0.000
1:27:00 PM	0.7	0.004	0.000
1:28:00 PM	0.7	0.004	0.000
1:29:00 PM	0.7	0.003	0.000
1:30:00 PM	0.7	0.003	0.000
1:31:00 PM	0.7	0.003	0.000
1:32:00 PM	0.7	0.005	0.000
1:33:00 PM	0.7	0.004	0.000
1:34:00 PM	0.7	0.004	0.000
1:35:00 PM	0.7	0.004	0.000
1:36:00 PM	0.7	0.004	0.000
1:37:00 PM	0.7	0.004	0.000
1:38:00 PM	0.7	0.004	0.000
1:39:00 PM	0.7	0.004	0.000
1:40:00 PM	0.7	0.004	0.000
1:41:00 PM	0.7	0.004	0.000
1:42:00 PM	0.7	0.004	0.000
1:43:00 PM	0.6	0.005	0.000
1:44:00 PM	0.7	0.004	0.000
1:45:00 PM	0.7	0.004	0.000
1:46:00 PM	0.7	0.004	0.000
1:47:00 PM	0.7	0.004	0.000
1:48:00 PM	0.7	0.004	0.000
1:49:00 PM	0.7	0.004	0.000
1:50:00 PM	0.7	0.004	0.000
1:51:00 PM	0.7	0.004	0.000
1:52:00 PM	0.7	0.004	0.000
1:53:00 PM	0.7	0.004	0.000
1:54:00 PM	0.7	0.004	0.000
1:55:00 PM	0.7	0.004	0.000
1:56:00 PM	0.7	0.004	0.000
1:57:00 PM	0.7	0.004	0.000
1:58:00 PM	0.7	0.004	0.000
1:59:00 PM	0.7	0.004	0.000
2:00:00 PM	0.7	0.004	0.000
2:01:00 PM	0.6	0.004	0.000
2:02:00 PM	0.7	0.004	0.000
2:03:00 PM	0.8	0.004	0.000
2:04:00 PM	0.7	0.005	0.000
2:05:00 PM	0.8	0.005	0.000
2:06:00 PM	0.7	0.005	0.000
2:07:00 PM	0.7	0.004	0.000
2:08:00 PM	0.8	0.005	0.000
2:09:00 PM	0.8	0.006	0.000
2:10:00 PM	0.8	0.005	0.000
2:11:00 PM	0.8	0.005	0.000
2:12:00 PM	0.8	0.004	0.000
2:13:00 PM	0.8	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:14:00 PM	0.8	0.005	0.000
2:15:00 PM	0.8	0.005	0.000
2:16:00 PM	0.9	0.005	0.000
2:17:00 PM	0.8	0.005	0.000
2:18:00 PM	0.9	0.005	0.000
2:19:00 PM	0.8	0.005	0.000
2:20:00 PM	0.8	0.005	0.000
2:21:00 PM	0.9	0.005	0.000
2:22:00 PM	1.0	0.005	0.000
2:23:00 PM	0.9	0.005	0.000
2:24:00 PM	0.9	0.005	0.000
2:25:00 PM	0.9	0.004	0.000
2:26:00 PM	0.9	0.004	0.000
2:27:00 PM	0.8	0.004	0.000
2:28:00 PM	0.8	0.005	0.000
2:29:00 PM	0.8	0.005	0.000
2:30:00 PM	0.8	0.004	0.000
2:31:00 PM	0.8	0.005	0.000
2:32:00 PM	0.8	0.005	0.000
2:33:00 PM	0.9	0.005	0.000
2:34:00 PM	0.8	0.004	0.000
2:35:00 PM	0.9	0.004	0.000
2:36:00 PM	0.9	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:55:00 AM		0.005	0.000
9:56:00 AM		0.005	0.000
9:57:00 AM		0.005	0.000
9:58:00 AM		0.007	0.000
9:59:00 AM		0.007	0.000
10:00:00 AM		0.007	0.000
10:01:00 AM		0.005	0.000
10:02:00 AM		0.006	0.000
10:03:00 AM		0.005	0.000
10:04:00 AM		0.005	0.000
10:05:00 AM		0.007	0.000
10:06:00 AM		0.008	0.000
10:07:00 AM		0.006	0.000
10:08:00 AM		0.005	0.000
10:09:00 AM		0.006	0.000
10:10:00 AM		0.005	0.000
10:11:00 AM		0.006	0.000
10:12:00 AM		0.004	0.000
10:13:00 AM		0.004	0.000
10:14:00 AM		0.005	0.000
10:15:00 AM		0.005	0.000
10:16:00 AM		0.005	0.000
10:17:00 AM		0.006	0.000
10:18:00 AM		0.006	0.000
10:19:00 AM		0.005	0.000
10:20:00 AM		0.006	0.000
10:21:00 AM		0.005	0.000
10:22:00 AM		0.005	0.000
10:23:00 AM		0.014	0.000
10:24:00 AM		0.011	0.000
10:25:00 AM		0.007	0.000
10:26:00 AM	0.1	0.006	0.000
10:27:00 AM	0.1	0.005	0.000
10:28:00 AM	0.1	0.004	0.000
10:29:00 AM	0.1	0.008	0.000
10:30:00 AM	0.1	0.007	0.000
10:31:00 AM	0.1	0.006	0.000
10:32:00 AM	0.1	0.007	0.000
10:33:00 AM	0.1	0.008	0.000
10:34:00 AM	0.1	0.006	0.000
10:35:00 AM	0.1	0.006	0.000
10:36:00 AM	0.1	0.006	0.000
10:37:00 AM	0.1	0.006	0.000
10:38:00 AM	0.1	0.006	0.000
10:39:00 AM	0.1	0.005	0.000
10:40:00 AM	0.1	0.006	0.000
10:41:00 AM	0.1	0.006	0.000
10:42:00 AM	0.2	0.008	0.000
10:43:00 AM	0.1	0.007	0.000
10:44:00 AM	0.2	0.006	0.000
10:45:00 AM	0.2	0.008	0.000
10:46:00 AM	0.2	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:47:00 AM	0.2	0.015	0.000
10:48:00 AM	0.2	0.022	0.000
10:49:00 AM	0.2	0.007	0.000
10:50:00 AM	0.2	0.006	0.000
10:51:00 AM	0.2	0.007	0.000
10:52:00 AM	0.2	0.005	0.000
10:53:00 AM	0.2	0.006	0.000
10:54:00 AM	0.2	0.007	0.000
10:55:00 AM	0.2	0.008	0.000
10:56:00 AM	0.2	0.008	0.000
10:57:00 AM	0.2	0.008	0.000
10:58:00 AM	0.2	0.007	0.000
10:59:00 AM	0.2	0.007	0.000
11:00:00 AM	0.2	0.005	0.000
11:01:00 AM	0.2	0.004	0.000
11:02:00 AM	0.2	0.004	0.000
11:03:00 AM	0.2	0.005	0.000
11:04:00 AM	0.2	0.004	0.000
11:05:00 AM	0.2	0.005	0.000
11:06:00 AM	0.2	0.006	0.000
11:07:00 AM	0.2	0.005	0.000
11:08:00 AM	0.2	0.007	0.000
11:09:00 AM	0.2	0.005	0.000
11:10:00 AM	0.2	0.005	0.000
11:11:00 AM	0.2	0.007	0.000
11:12:00 AM	0.2	0.008	0.000
11:13:00 AM	0.2	0.005	0.000
11:14:00 AM	0.2	0.010	0.000
11:15:00 AM	0.2	0.007	0.000
11:16:00 AM	0.2	0.008	0.000
11:17:00 AM	0.2	0.007	0.000
11:18:00 AM	0.2	0.006	0.000
11:19:00 AM	0.2	0.007	0.000
11:20:00 AM	0.2	0.007	0.000
11:21:00 AM	0.2	0.007	0.000
11:22:00 AM	0.2	0.007	0.000
11:23:00 AM	0.2	0.006	0.000
11:24:00 AM	0.2	0.005	0.000
11:25:00 AM	0.2	0.006	0.000
11:26:00 AM	0.2	0.015	0.000
11:27:00 AM	0.2	0.011	0.000
11:28:00 AM	0.2	0.010	0.000
11:29:00 AM	0.2	0.015	0.000
11:30:00 AM	0.2	0.019	0.000
11:31:00 AM	0.2	0.009	0.000
11:32:00 AM	0.2	0.010	0.000
11:33:00 AM	0.2	0.016	0.000
11:34:00 AM	0.2	0.028	0.000
11:35:00 AM	0.2	0.017	0.000
11:36:00 AM	0.2	0.094	0.000
11:37:00 AM	0.2	0.018	0.000
11:38:00 AM	0.2	0.008	0.000
11:39:00 AM	0.2	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:40:00 AM	0.2	0.021	0.000
11:41:00 AM	0.2	0.009	0.000
11:42:00 AM	0.2	0.006	0.000
11:43:00 AM	0.2	0.006	0.000
11:44:00 AM	0.2	0.006	0.000
11:45:00 AM	0.2	0.008	0.000
11:46:00 AM	0.2	0.005	0.000
11:47:00 AM	0.2	0.006	0.000
11:48:00 AM	0.2	0.006	0.000
11:49:00 AM	0.2	0.007	0.000
11:50:00 AM	0.2	0.006	0.000
11:51:00 AM	0.2	0.006	0.000
11:52:00 AM	0.2	0.006	0.000
11:53:00 AM	0.2	0.007	0.000
11:54:00 AM	0.2	0.024	0.000
11:55:00 AM	0.2	0.039	0.000
11:56:00 AM	0.2	0.011	0.000
11:57:00 AM	0.2	0.018	0.000
11:58:00 AM	0.2	0.018	0.000
11:59:00 AM	0.2	0.013	0.000
12:00:00 PM	0.2	0.010	0.000
12:01:00 PM	0.2	0.029	0.000
12:02:00 PM	0.2	0.012	0.000
12:03:00 PM	0.2	0.006	0.000
12:04:00 PM	0.2	0.008	0.000
12:05:00 PM	0.2	0.010	0.000
12:06:00 PM	0.2	0.007	0.000
12:07:00 PM	0.2	0.006	0.000
12:08:00 PM	0.2	0.006	0.000
12:09:00 PM	0.2	0.008	0.000
12:10:00 PM	0.2	0.007	0.000
12:11:00 PM	0.2	0.006	0.000
12:12:00 PM	0.2	0.010	0.000
12:13:00 PM	0.2	0.012	0.000
12:14:00 PM	0.2	0.006	0.000
12:15:00 PM	0.2	0.010	0.000
12:16:00 PM	0.2	0.011	0.000
12:17:00 PM	0.2	0.006	0.000
12:18:00 PM	0.2	0.005	0.000
12:19:00 PM	0.2	0.004	0.000
12:20:00 PM	0.2	0.012	0.000
12:21:00 PM	0.2	0.017	0.000
12:22:00 PM	0.2	0.009	0.000
12:23:00 PM	0.3	0.006	0.000
12:24:00 PM	0.3	0.007	0.000
12:25:00 PM	0.2	0.006	0.000
12:26:00 PM	0.2	0.005	0.000
12:27:00 PM	0.2	0.006	0.000
12:28:00 PM	0.2	0.005	0.000
12:29:00 PM	0.2	0.004	0.000
12:30:00 PM	0.2	0.005	0.000
12:31:00 PM	0.2	0.005	0.000
12:32:00 PM	0.2	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:33:00 PM	0.2	0.007	0.000
12:34:00 PM	0.2	0.005	0.000
12:35:00 PM	0.2	0.005	0.000
12:36:00 PM	0.2	0.006	0.000
12:37:00 PM	0.2	0.006	0.000
12:38:00 PM	0.2	0.005	0.000
12:39:00 PM	0.2	0.005	0.000
12:40:00 PM	0.2	0.010	0.000
12:41:00 PM	0.2	0.011	0.000
12:42:00 PM	0.2	0.046	0.000
12:43:00 PM	0.2	0.005	0.000
12:44:00 PM	0.2	0.006	0.000
12:45:00 PM	0.2	0.006	0.000
12:46:00 PM	0.2	0.007	0.000
12:47:00 PM	0.2	0.005	0.000
12:48:00 PM	0.2	0.005	0.000
12:49:00 PM	0.2	0.004	0.000
12:50:00 PM	0.2	0.005	0.000
12:51:00 PM	0.2	0.006	0.000
12:52:00 PM	0.2	0.005	0.000
12:53:00 PM	0.2	0.004	0.000
12:54:00 PM	0.2	0.004	0.000
12:55:00 PM	0.2	0.004	0.000
12:56:00 PM	0.2	0.004	0.000
12:57:00 PM	0.2	0.005	0.000
12:58:00 PM	0.2	0.005	0.000
12:59:00 PM	0.3	0.005	0.000
1:00:00 PM	0.3	0.006	0.000
1:01:00 PM	0.3	0.013	0.000
1:02:00 PM	0.3	0.006	0.000
1:03:00 PM	0.3	0.005	0.000
1:04:00 PM	0.2	0.006	0.000
1:05:00 PM	0.2	0.011	0.000
1:06:00 PM	0.2	0.030	0.000
1:07:00 PM	0.3	0.007	0.000
1:08:00 PM	0.2	0.005	0.000
1:09:00 PM	0.3	0.006	0.000
1:10:00 PM	0.3	0.006	0.000
1:11:00 PM	0.3	0.005	0.000
1:12:00 PM	0.3	0.010	0.000
1:13:00 PM	0.3	0.007	0.000
1:14:00 PM	0.3	0.006	0.000
1:15:00 PM	0.3	0.006	0.000
1:16:00 PM	0.2	0.014	0.000
1:17:00 PM	0.2	0.006	0.000
1:18:00 PM	0.3	0.005	0.000
1:19:00 PM	0.2	0.005	0.000
1:20:00 PM	0.2	0.005	0.000
1:21:00 PM	0.2	0.005	0.000
1:22:00 PM	0.2	0.005	0.000
1:23:00 PM	0.2	0.005	0.000
1:24:00 PM	0.2	0.011	0.000
1:25:00 PM	0.3	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:26:00 PM	0.3	0.006	0.000
1:27:00 PM	0.3	0.007	0.000
1:28:00 PM	0.3	0.006	0.000
1:29:00 PM	0.3	0.005	0.000
1:30:00 PM	0.3	0.005	0.000
1:31:00 PM	0.3	0.006	0.000
1:32:00 PM	0.3	0.008	0.000
1:33:00 PM	0.3	0.009	0.000
1:34:00 PM	0.2	0.008	0.000
1:35:00 PM	0.2	0.004	0.000
1:36:00 PM	0.3	0.005	0.000
1:37:00 PM	0.2	0.005	0.000
1:38:00 PM	0.2	0.006	0.000
1:39:00 PM	0.2	0.005	0.000
1:40:00 PM	0.3	0.005	0.000
1:41:00 PM	0.2	0.006	0.000
1:42:00 PM	0.2	0.009	0.000
1:43:00 PM	0.2	0.015	0.000
1:44:00 PM	0.2	0.012	0.000
1:45:00 PM	0.2	0.007	0.000
1:46:00 PM	0.2	0.010	0.000
1:47:00 PM	0.2	0.008	0.000
1:48:00 PM	0.2	0.010	0.000
1:49:00 PM	0.2	0.009	0.000
1:50:00 PM	0.2	0.008	0.000
1:51:00 PM	0.2	0.006	0.000
1:52:00 PM	0.2	0.006	0.000
1:53:00 PM	0.2	0.006	0.000
1:54:00 PM	0.2	0.006	0.000
1:55:00 PM	0.3	0.005	0.000
1:56:00 PM	0.2	0.005	0.000
1:57:00 PM	0.2	0.006	0.000
1:58:00 PM	0.3	0.005	0.000
1:59:00 PM	0.2	0.006	0.000
2:00:00 PM	0.3	0.006	0.000
2:01:00 PM	0.2	0.007	0.000
2:02:00 PM	0.2	0.006	0.000
2:03:00 PM	0.2	0.006	0.000
2:04:00 PM	0.2	0.009	0.000
2:05:00 PM	0.3	0.007	0.000
2:06:00 PM	0.2	0.007	0.000
2:07:00 PM	0.3	0.006	0.000
2:08:00 PM	0.3	0.006	0.000
2:09:00 PM	0.3	0.005	0.000
2:10:00 PM	0.2	0.007	0.000
2:11:00 PM	0.3	0.009	0.000
2:12:00 PM	0.2	0.006	0.000
2:13:00 PM	0.2	0.006	0.000
2:14:00 PM	0.3	0.006	0.000
2:15:00 PM	0.3	0.005	0.000
2:16:00 PM	0.3	0.006	0.000
2:17:00 PM	0.2	0.005	0.000
2:18:00 PM	0.2	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:19:00 PM	0.2	0.006	0.000
2:20:00 PM	0.3	0.008	0.000
2:21:00 PM	0.3	0.006	0.000
2:22:00 PM	0.2	0.006	0.000
2:23:00 PM	0.2	0.005	0.000
2:24:00 PM	0.2	0.006	0.000
2:25:00 PM	0.2	0.005	0.000
2:26:00 PM	0.2	0.006	0.000
2:27:00 PM	0.3	0.006	0.000
2:28:00 PM	0.2	0.014	0.000
2:29:00 PM	0.2	0.04	0.000
2:30:00 PM	0.2	0.009	0.000
2:31:00 PM	0.2	0.011	0.000
2:32:00 PM	0.2	0.013	0.000
2:33:00 PM	0.2	0.01	0.000
2:34:00 PM	0.2	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:01:00 AM	0.0	0.005	0.000
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.006	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.006	0.000
10:06:00 AM	0.0	0.005	0.000
10:07:00 AM	0.0	0.007	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.006	0.000
10:10:00 AM	0.0	0.006	0.000
10:11:00 AM	0.0	0.006	0.000
10:12:00 AM	0.0	0.006	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.006	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.006	0.002
10:17:00 AM	0.0	0.006	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.006	0.000
10:22:00 AM	0.0	0.005	0.000
10:23:00 AM	0.0	0.005	0.000
10:24:00 AM	0.0	0.005	0.000
10:25:00 AM	0.0	0.005	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.006	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.005	0.000
10:39:00 AM	0.0	0.006	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.006	0.000
10:47:00 AM	0.0	0.006	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.007	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.2	0.006	0.000
11:00:00 AM	0.1	0.006	0.000
11:01:00 AM	0.1	0.006	0.000
11:02:00 AM	0.1	0.006	0.000
11:03:00 AM	0.1	0.007	0.000
11:04:00 AM	0.1	0.007	0.000
11:05:00 AM	0.1	0.005	0.000
11:06:00 AM	0.1	0.008	0.000
11:07:00 AM	0.1	0.007	0.000
11:08:00 AM	0.1	0.007	0.000
11:09:00 AM	0.1	0.007	0.000
11:10:00 AM	0.1	0.006	0.000
11:11:00 AM	0.1	0.007	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.008	0.000
11:14:00 AM	0.1	0.006	0.000
11:15:00 AM	0.1	0.006	0.000
11:16:00 AM	0.1	0.008	0.000
11:17:00 AM	0.1	0.007	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.008	0.000
11:20:00 AM	0.1	0.017	0.000
11:21:00 AM	0.1	0.007	0.000
11:22:00 AM	0.1	0.007	0.000
11:23:00 AM	0.1	0.007	0.000
11:24:00 AM	0.1	0.007	0.000
11:25:00 AM	0.1	0.007	0.000
11:26:00 AM	0.1	0.007	0.000
11:27:00 AM	0.1	0.006	0.000
11:28:00 AM	0.1	0.006	0.000
11:29:00 AM	0.1	0.006	0.000
11:30:00 AM	0.1	0.005	0.000
11:31:00 AM	0.1	0.007	0.000
11:32:00 AM	0.1	0.005	0.000
11:33:00 AM	0.1	0.007	0.000
11:34:00 AM	0.1	0.006	0.000
11:35:00 AM	0.1	0.006	0.000
11:36:00 AM	0.1	0.014	0.000
11:37:00 AM	0.1	0.006	0.000
11:38:00 AM	0.1	0.005	0.000
11:39:00 AM	0.1	0.005	0.000
11:40:00 AM	0.1	0.007	0.000
11:41:00 AM	0.1	0.007	0.000
11:42:00 AM	0.1	0.006	0.000
11:43:00 AM	0.1	0.006	0.000
11:44:00 AM	0.1	0.006	0.000
11:45:00 AM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:46:00 AM	0.1	0.005	0.000
11:47:00 AM	0.2	0.006	0.000
11:48:00 AM	0.1	0.006	0.000
11:49:00 AM	0.1	0.006	0.000
11:50:00 AM	0.1	0.006	0.000
11:51:00 AM	0.1	0.007	0.000
11:52:00 AM	0.2	0.006	0.000
11:53:00 AM	0.2	0.006	0.000
11:54:00 AM	0.2	0.007	0.000
11:55:00 AM	0.2	0.007	0.000
11:56:00 AM	0.2	0.007	0.000
11:57:00 AM	0.2	0.008	0.000
11:58:00 AM	0.2	0.007	0.000
11:59:00 AM	0.2	0.006	0.000
12:00:00 PM	0.2	0.007	0.000
12:01:00 PM	0.2	0.008	0.000
12:02:00 PM	0.2	0.008	0.000
12:03:00 PM	0.2	0.007	0.000
12:04:00 PM	0.2	0.007	0.000
12:05:00 PM	0.2	0.007	0.000
12:06:00 PM	0.2	0.007	0.000
12:07:00 PM	0.2	0.007	0.000
12:08:00 PM	0.2	0.007	0.000
12:09:00 PM	0.2	0.009	0.000
12:10:00 PM	0.2	0.009	0.000
12:11:00 PM	0.2	0.008	0.000
12:12:00 PM	0.2	0.007	0.000
12:13:00 PM	0.2	0.007	0.000
12:14:00 PM	0.2	0.007	0.000
12:15:00 PM	0.2	0.007	0.000
12:16:00 PM	0.2	0.007	0.000
12:17:00 PM	0.2	0.007	0.000
12:18:00 PM	0.2	0.007	0.000
12:19:00 PM	0.2	0.006	0.000
12:20:00 PM	0.2	0.005	0.000
12:21:00 PM	0.2	0.006	0.000
12:22:00 PM	0.2	0.005	0.000
12:23:00 PM	0.2	0.005	0.000
12:24:00 PM	0.2	0.005	0.000
12:25:00 PM	0.2	0.005	0.000
12:26:00 PM	0.2	0.005	0.000
12:27:00 PM	0.2	0.005	0.000
12:28:00 PM	0.2	0.005	0.000
12:29:00 PM	0.2	0.005	0.000
12:30:00 PM	0.2	0.005	0.000
12:31:00 PM	0.2	0.005	0.000
12:32:00 PM	0.2	0.005	0.000
12:33:00 PM	0.2	0.005	0.000
12:34:00 PM	0.2	0.006	0.000
12:35:00 PM	0.2	0.005	0.000
12:36:00 PM	0.2	0.006	0.000
12:37:00 PM	0.2	0.006	0.000
12:38:00 PM	0.2	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:39:00 PM	0.2	0.006	0.000
12:40:00 PM	0.2	0.006	0.000
12:41:00 PM	0.2	0.006	0.000
12:42:00 PM	0.2	0.005	0.000
12:43:00 PM	0.2	0.006	0.000
12:44:00 PM	0.2	0.006	0.000
12:45:00 PM	0.2	0.005	0.000
12:46:00 PM	0.2	0.006	0.000
12:47:00 PM	0.2	0.005	0.000
12:48:00 PM	0.2	0.005	0.000
12:49:00 PM	0.2	0.005	0.000
12:50:00 PM	0.2	0.005	0.000
12:51:00 PM	0.3	0.005	0.000
12:52:00 PM	0.3	0.005	0.000
12:53:00 PM	0.3	0.006	0.000
12:54:00 PM	0.2	0.006	0.000
12:55:00 PM	0.2	0.005	0.000
12:56:00 PM	0.3	0.005	0.000
12:57:00 PM	0.2	0.005	0.000
12:58:00 PM	0.3	0.005	0.000
12:59:00 PM	0.3	0.005	0.000
1:00:00 PM	0.3	0.005	0.000
1:01:00 PM	0.3	0.006	0.000
1:02:00 PM	0.3	0.007	0.000
1:03:00 PM	0.3	0.006	0.000
1:04:00 PM	0.3	0.006	0.000
1:05:00 PM	0.3	0.006	0.000
1:06:00 PM	0.3	0.006	0.000
1:07:00 PM	0.3	0.006	0.000
1:08:00 PM	0.3	0.006	0.000
1:09:00 PM	0.3	0.006	0.000
1:10:00 PM	0.3	0.006	0.000
1:11:00 PM	0.3	0.007	0.000
1:12:00 PM	0.3	0.006	0.000
1:13:00 PM	0.3	0.006	0.000
1:14:00 PM	0.3	0.007	0.000
1:15:00 PM	0.3	0.007	0.000
1:16:00 PM	0.3	0.009	0.000
1:17:00 PM	0.3	0.006	0.000
1:18:00 PM	0.3	0.006	0.000
1:19:00 PM	0.3	0.005	0.000
1:20:00 PM	0.3	0.006	0.000
1:21:00 PM	0.3	0.006	0.000
1:22:00 PM	0.3	0.006	0.000
1:23:00 PM	0.3	0.006	0.000
1:24:00 PM	0.3	0.007	0.000
1:25:00 PM	0.3	0.006	0.000
1:26:00 PM	0.3	0.006	0.000
1:27:00 PM	0.3	0.006	0.000
1:28:00 PM	0.3	0.021	0.000
1:29:00 PM	0.3	0.005	0.000
1:30:00 PM	0.3	0.006	0.000
1:31:00 PM	0.3	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:32:00 PM	0.3	0.006	0.000
1:33:00 PM	0.3	0.006	0.000
1:34:00 PM	0.3	0.005	0.000
1:35:00 PM	0.3	0.006	0.000
1:36:00 PM	0.3	0.006	0.000
1:37:00 PM	0.3	0.005	0.000
1:38:00 PM	0.3	0.006	0.000
1:39:00 PM	0.3	0.006	0.000
1:40:00 PM	0.3	0.005	0.000
1:41:00 PM	0.3	0.006	0.000
1:42:00 PM	0.3	0.006	0.000
1:43:00 PM	0.3	0.006	0.000
1:44:00 PM	0.3	0.006	0.000
1:45:00 PM	0.3	0.005	0.000
1:46:00 PM	0.3	0.006	0.000
1:47:00 PM	0.3	0.006	0.000
1:48:00 PM	0.3	0.006	0.000
1:49:00 PM	0.3	0.006	0.000
1:50:00 PM	0.3	0.006	0.000
1:51:00 PM	0.3	0.006	0.000
1:52:00 PM	0.3	0.006	0.000
1:53:00 PM	0.3	0.006	0.000
1:54:00 PM	0.3	0.006	0.000
1:55:00 PM	0.3	0.005	0.000
1:56:00 PM	0.3	0.006	0.000
1:57:00 PM	0.3	0.006	0.000
1:58:00 PM	0.3	0.006	0.000
1:59:00 PM	0.3	0.006	0.000
2:00:00 PM	0.3	0.006	0.000
2:01:00 PM	0.3	0.006	0.000
2:02:00 PM	0.3	0.006	0.000
2:03:00 PM	0.3	0.006	0.000
2:04:00 PM	0.3	0.008	0.000
2:05:00 PM	0.3	0.007	0.000
2:06:00 PM	0.3	0.007	0.000
2:07:00 PM	0.3	0.007	0.000
2:08:00 PM	0.3	0.007	0.000
2:09:00 PM	0.3	0.007	0.000
2:10:00 PM	0.3	0.006	0.000
2:11:00 PM	0.3	0.006	0.000
2:12:00 PM	0.3	0.005	0.000
2:13:00 PM	0.3	0.005	0.000
2:14:00 PM	0.3	0.006	0.000
2:15:00 PM	0.3	0.006	0.000
2:16:00 PM	0.3	0.006	0.000
2:17:00 PM	0.3	0.006	0.000
2:18:00 PM	0.3	0.006	0.000
2:19:00 PM	0.3	0.006	0.000
2:20:00 PM	0.3	0.008	0.000
2:21:00 PM	0.3	0.007	0.000
2:22:00 PM	0.3	0.006	0.000
2:23:00 PM	0.3	0.006	0.000
2:24:00 PM	0.3	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 2, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:25:00 PM	0.3	0.005	0.000
2:26:00 PM	0.3	0.005	0.000
2:27:00 PM	0.3	0.005	0.000
2:28:00 PM	0.3	0.005	0.000
2:29:00 PM	0.3	0.006	0.000
2:30:00 PM	0.3	0.007	0.000
2:31:00 PM	0.3	0.007	0.000
2:32:00 PM		0.014	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 13 mph	Date:	3/3/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:05 am. Aarco continues to expose the dry well structure to allow for instillation of the digging box. Aarco placing all excavated soils onto the stockpile for disposal. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor no field screening results noted above background readings of 0.0 PPM and 0.000 mg/m3. Roy from Aarco departs early laborers preform site cleanup, repairs to site fence. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.6	0.020	0.000	0.9	0.021	0.000
Down Wind	0.2	0.023	0.000	0.3	0.028	0.000
Work Zone	0.0	0.021	0.000	0.1	0.031	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue to excavate within area #7 to install the digging box.



View of downwind camp station.



Aarco placing all excavated soils onto stockpile.

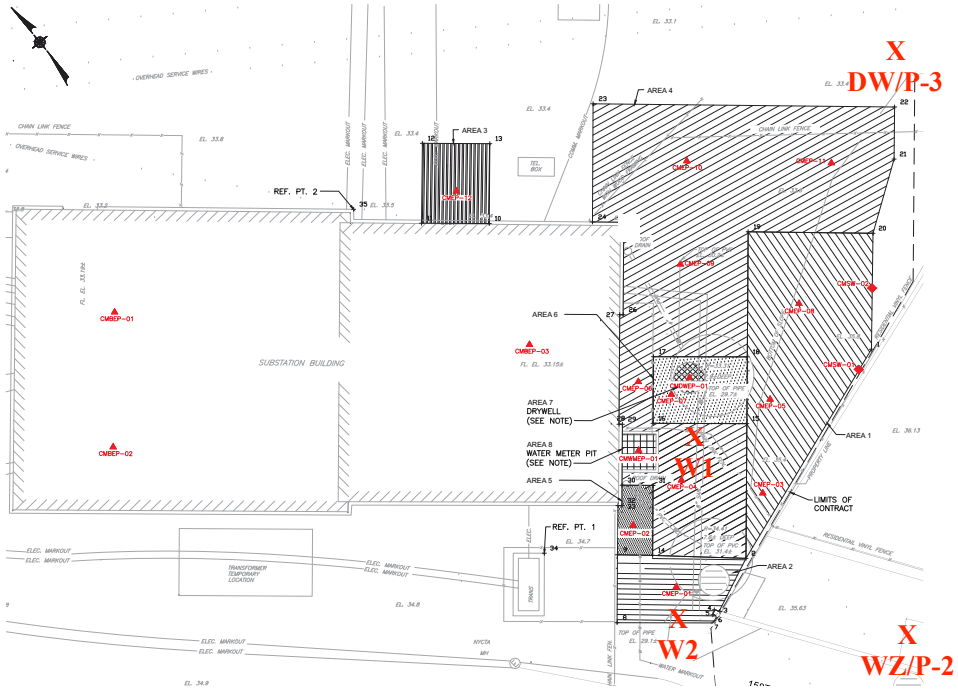


Preferred screening all excavated soils for VOCs and mercury.



View of exposed drywell structure.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:41:00 AM		0.018	0.000
9:42:00 AM		0.018	0.000
9:43:00 AM		0.018	0.000
9:44:00 AM		0.018	0.000
9:45:00 AM		0.018	0.000
9:46:00 AM		0.019	0.000
9:47:00 AM	0.2	0.018	0.000
9:48:00 AM	0.2	0.019	0.000
9:49:00 AM	0.2	0.017	0.000
9:50:00 AM	0.2	0.017	0.000
9:51:00 AM	0.3	0.017	0.000
9:52:00 AM	0.3	0.018	0.000
9:53:00 AM	0.3	0.019	0.000
9:54:00 AM	0.2	0.017	0.000
9:55:00 AM	0.2	0.018	0.000
9:56:00 AM	0.3	0.017	0.000
9:57:00 AM	0.3	0.017	0.000
9:58:00 AM	0.3	0.024	0.000
9:59:00 AM	0.3	0.019	0.000
10:00:00 AM	0.3	0.018	0.000
10:01:00 AM	0.4	0.019	0.000
10:02:00 AM	0.3	0.019	0.000
10:03:00 AM	0.4	0.019	0.000
10:04:00 AM	0.3	0.018	0.000
10:05:00 AM	0.3	0.022	0.000
10:06:00 AM	0.3	0.019	0.000
10:07:00 AM	0.3	0.019	0.000
10:08:00 AM	0.4	0.018	0.000
10:09:00 AM	0.3	0.027	0.000
10:10:00 AM	0.4	0.020	0.000
10:11:00 AM	0.3	0.018	0.000
10:12:00 AM	0.4	0.021	0.000
10:13:00 AM	0.4	0.019	0.000
10:14:00 AM	0.5	0.018	0.000
10:15:00 AM	0.4	0.018	0.000
10:16:00 AM	0.5	0.018	0.000
10:17:00 AM	0.5	0.018	0.000
10:18:00 AM	0.5	0.018	0.000
10:19:00 AM	0.5	0.018	0.000
10:20:00 AM	0.5	0.019	0.000
10:21:00 AM	0.6	0.018	0.000
10:22:00 AM	0.6	0.019	0.000
10:23:00 AM	0.6	0.019	0.000
10:24:00 AM	0.5	0.019	0.000
10:25:00 AM	0.6	0.019	0.000
10:26:00 AM	0.6	0.019	0.000
10:27:00 AM	0.6	0.019	0.000
10:28:00 AM	0.7	0.019	0.000
10:29:00 AM	0.6	0.019	0.000
10:30:00 AM	0.7	0.019	0.000
10:31:00 AM	0.7	0.019	0.000
10:32:00 AM	0.7	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:33:00 AM	0.6	0.019	0.000
10:34:00 AM	0.7	0.019	0.000
10:35:00 AM	0.6	0.019	0.000
10:36:00 AM	0.7	0.019	0.000
10:37:00 AM	0.7	0.019	0.000
10:38:00 AM	0.7	0.019	0.000
10:39:00 AM	0.7	0.020	0.000
10:40:00 AM	0.7	0.019	0.000
10:41:00 AM	0.6	0.019	0.000
10:42:00 AM	0.7	0.019	0.000
10:43:00 AM	0.7	0.020	0.000
10:44:00 AM	0.7	0.019	0.000
10:45:00 AM	0.7	0.019	0.000
10:46:00 AM	0.7	0.019	0.000
10:47:00 AM	0.7	0.019	0.000
10:48:00 AM	0.8	0.020	0.000
10:49:00 AM	0.7	0.019	0.000
10:50:00 AM	0.7	0.020	0.000
10:51:00 AM	0.7	0.020	0.000
10:52:00 AM	0.7	0.020	0.000
10:53:00 AM	0.7	0.019	0.000
10:54:00 AM	0.7	0.019	0.000
10:55:00 AM	0.7	0.020	0.000
10:56:00 AM	0.7	0.020	0.000
10:57:00 AM	0.7	0.020	0.000
10:58:00 AM	0.7	0.019	0.000
10:59:00 AM	0.8	0.019	0.000
11:00:00 AM	0.8	0.019	0.000
11:01:00 AM	0.8	0.019	0.000
11:02:00 AM	0.8	0.020	0.000
11:03:00 AM	0.8	0.020	0.000
11:04:00 AM	0.8	0.020	0.000
11:05:00 AM	0.8	0.020	0.000
11:06:00 AM	0.8	0.021	0.000
11:07:00 AM	0.8	0.021	0.000
11:08:00 AM	0.8	0.022	0.000
11:09:00 AM	0.7	0.022	0.000
11:10:00 AM	0.7	0.026	0.000
11:11:00 AM	0.7	0.024	0.000
11:12:00 AM	0.7	0.020	0.000
11:13:00 AM	0.7	0.020	0.000
11:14:00 AM	0.7	0.022	0.000
11:15:00 AM	0.7	0.021	0.000
11:16:00 AM	0.7	0.021	0.000
11:17:00 AM	0.7	0.020	0.000
11:18:00 AM	0.8	0.020	0.000
11:19:00 AM	0.7	0.020	0.000
11:20:00 AM	0.7	0.020	0.000
11:21:00 AM	0.7	0.020	0.000
11:22:00 AM	0.8	0.021	0.000
11:23:00 AM	0.7	0.020	0.000
11:24:00 AM	0.8	0.020	0.000
11:25:00 AM	0.8	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:26:00 AM	0.8	0.021	0.000
11:27:00 AM	0.7	0.020	0.000
11:28:00 AM	0.7	0.020	0.000
11:29:00 AM	0.7	0.020	0.000
11:30:00 AM	0.8	0.020	0.000
11:31:00 AM	0.8	0.021	0.000
11:32:00 AM	0.8	0.020	0.000
11:33:00 AM	0.8	0.020	0.000
11:34:00 AM	0.8	0.021	0.000
11:35:00 AM	0.9	0.021	0.000
11:36:00 AM	0.8	0.020	0.000
11:37:00 AM	0.8	0.020	0.000
11:38:00 AM	0.8	0.020	0.000
11:39:00 AM	0.8	0.020	0.000
11:40:00 AM	0.8	0.020	0.000
11:41:00 AM	0.8	0.020	0.000
11:42:00 AM	0.8	0.020	0.000
11:43:00 AM	0.8	0.020	0.000
11:44:00 AM	0.8	0.021	0.000
11:45:00 AM	0.8	0.021	0.000
11:46:00 AM	0.8	0.021	0.000
11:47:00 AM	0.9	0.021	0.000
11:48:00 AM	0.9	0.020	0.000
11:49:00 AM	0.9	0.020	0.000
11:50:00 AM	0.9	0.021	0.000
11:51:00 AM	0.9	0.020	0.000
11:52:00 AM	0.9	0.020	0.000
11:53:00 AM	0.9	0.022	0.000
11:54:00 AM	1.0	0.020	0.000
11:55:00 AM	0.9	0.021	0.000
11:56:00 AM	0.9	0.022	0.000
11:57:00 AM	0.9	0.021	0.000
11:58:00 AM	0.9	0.020	0.000
11:59:00 AM	0.9	0.020	0.000
12:00:00 PM	0.9	0.021	0.000
12:01:00 PM	1.0	0.021	0.000
12:02:00 PM	0.9	0.021	0.000
12:03:00 PM	0.9	0.021	0.000
12:04:00 PM	0.9	0.020	0.000
12:05:00 PM	0.9	0.020	0.000
12:06:00 PM	0.9	0.020	0.000
12:07:00 PM	0.9	0.020	0.000
12:08:00 PM	1.0	0.020	0.000
12:09:00 PM	0.9	0.020	0.000
12:10:00 PM	0.9	0.019	0.000
12:11:00 PM	0.9	0.019	0.000
12:12:00 PM	0.9	0.019	0.000
12:13:00 PM	0.9	0.019	0.000
12:14:00 PM	1.0	0.019	0.000
12:15:00 PM	0.9	0.019	0.000
12:16:00 PM	0.9	0.019	0.000
12:17:00 PM	0.9	0.019	0.000
12:18:00 PM	0.9	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:19:00 PM	0.9	0.019	0.000
12:20:00 PM	0.9	0.019	0.000
12:21:00 PM	0.8	0.020	0.000
12:22:00 PM	0.9	0.019	0.000
12:23:00 PM	0.9	0.020	0.000
12:24:00 PM	0.8	0.020	0.000
12:25:00 PM	0.8	0.021	0.000
12:26:00 PM	0.9	0.020	0.000
12:27:00 PM	0.9	0.020	0.000
12:28:00 PM	0.9	0.020	0.000
12:29:00 PM	0.8	0.020	0.000
12:30:00 PM		0.020	0.000
12:31:00 PM		0.020	0.000
12:32:00 PM	0.0	0.021	0.000
12:33:00 PM	0.0	0.020	0.000
12:34:00 PM	0.0	0.020	0.000
12:35:00 PM	0.0	0.020	0.000
12:36:00 PM	0.0	0.020	0.000
12:37:00 PM	0.0	0.020	0.000
12:38:00 PM	0.0	0.020	0.000
12:39:00 PM	0.0	0.020	0.000
12:40:00 PM	0.0	0.020	0.000
12:41:00 PM	0.0	0.020	0.000
12:42:00 PM	0.0	0.020	0.000
12:43:00 PM	0.0	0.020	0.000
12:44:00 PM	0.0	0.020	0.000
12:45:00 PM	0.0	0.020	0.000
12:46:00 PM	0.0	0.020	0.000
12:47:00 PM	0.0	0.020	0.000
12:48:00 PM	0.0	0.020	0.000
12:49:00 PM	0.0	0.021	0.000
12:50:00 PM	0.0	0.020	0.000
12:51:00 PM	0.0	0.023	0.000
12:52:00 PM	0.0	0.026	0.000
12:53:00 PM	0.0	0.021	0.000
12:54:00 PM	0.0	0.022	0.000
12:55:00 PM	0.0	0.021	0.000
12:56:00 PM	0.0	0.024	0.000
12:57:00 PM	0.1	0.022	0.000
12:58:00 PM	0.0	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:32:00 AM	0.0		0.000
9:33:00 AM	0.0		0.000
9:34:00 AM	0.0		0.000
9:35:00 AM	0.0	0.159	0.000
9:36:00 AM	0.0	0.056	0.000
9:37:00 AM	0.0	0.019	0.000
9:38:00 AM	0.0	0.019	0.000
9:39:00 AM	0.0	0.021	0.000
9:40:00 AM	0.0	0.018	0.000
9:41:00 AM	0.0	0.020	0.000
9:42:00 AM	0.0	0.018	0.000
9:43:00 AM	0.0	0.019	0.000
9:44:00 AM	0.0	0.019	0.000
9:45:00 AM	0.0	0.018	0.000
9:46:00 AM	0.0	0.019	0.000
9:47:00 AM	0.0	0.018	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.018	0.000
9:50:00 AM	0.0	0.017	0.000
9:51:00 AM	0.0	0.017	0.000
9:52:00 AM	0.0	0.017	0.000
9:53:00 AM	0.0	0.017	0.000
9:54:00 AM	0.0	0.018	0.000
9:55:00 AM	0.0	0.018	0.000
9:56:00 AM	0.0	0.018	0.000
9:57:00 AM	0.1	0.017	0.000
9:58:00 AM	0.0	0.020	0.000
9:59:00 AM	0.0	0.018	0.000
10:00:00 AM	0.0	0.018	0.000
10:01:00 AM	0.0	0.018	0.000
10:02:00 AM	0.0	0.020	0.000
10:03:00 AM	0.0	0.018	0.000
10:04:00 AM	0.0	0.019	0.000
10:05:00 AM	0.0	0.018	0.000
10:06:00 AM	0.0	0.018	0.000
10:07:00 AM	0.0	0.018	0.000
10:08:00 AM	0.0	0.018	0.000
10:09:00 AM	0.0	0.019	0.000
10:10:00 AM	0.0	0.019	0.000
10:11:00 AM	0.0	0.019	0.000
10:12:00 AM	0.0	0.020	0.000
10:13:00 AM	0.0	0.019	0.000
10:14:00 AM	0.0	0.018	0.000
10:15:00 AM	0.0	0.019	0.000
10:16:00 AM	0.0	0.018	0.000
10:17:00 AM	0.0	0.018	0.000
10:18:00 AM	0.0	0.018	0.000
10:19:00 AM	0.1	0.018	0.000
10:20:00 AM	0.0	0.018	0.000
10:21:00 AM	0.0	0.018	0.000
10:22:00 AM	0.0	0.018	0.000
10:23:00 AM	0.0	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:24:00 AM	0.0	0.018	0.000
10:25:00 AM	0.0	0.019	0.000
10:26:00 AM	0.0	0.018	0.000
10:27:00 AM	0.1	0.034	0.000
10:28:00 AM	0.0	0.025	0.000
10:29:00 AM	0.0	0.022	0.000
10:30:00 AM	0.0	0.019	0.000
10:31:00 AM	0.0	0.018	0.000
10:32:00 AM	0.0	0.019	0.000
10:33:00 AM	0.0	0.019	0.000
10:34:00 AM	0.0	0.019	0.000
10:35:00 AM	0.0	0.019	0.000
10:36:00 AM	0.0	0.019	0.000
10:37:00 AM	0.0	0.019	0.000
10:38:00 AM	0.0	0.019	0.000
10:39:00 AM	0.0	0.019	0.000
10:40:00 AM	0.0	0.019	0.000
10:41:00 AM	0.0	0.019	0.000
10:42:00 AM	0.0	0.019	0.000
10:43:00 AM	0.0	0.019	0.000
10:44:00 AM	0.0	0.019	0.000
10:45:00 AM	0.0	0.019	0.000
10:46:00 AM	0.0	0.018	0.000
10:47:00 AM	0.0	0.019	0.000
10:48:00 AM	0.0	0.019	0.000
10:49:00 AM	0.1	0.019	0.000
10:50:00 AM	0.1	0.018	0.000
10:51:00 AM	0.1	0.018	0.000
10:52:00 AM	0.1	0.018	0.000
10:53:00 AM	0.0	0.019	0.000
10:54:00 AM	0.1	0.019	0.000
10:55:00 AM	0.1	0.020	0.000
10:56:00 AM	0.1	0.020	0.000
10:57:00 AM	0.1	0.019	0.000
10:58:00 AM	0.1	0.019	0.000
10:59:00 AM	0.1	0.019	0.000
11:00:00 AM	0.1	0.019	0.000
11:01:00 AM	0.1	0.019	0.000
11:02:00 AM	0.1	0.019	0.000
11:03:00 AM	0.1	0.020	0.000
11:04:00 AM	0.1	0.020	0.000
11:05:00 AM	0.1	0.021	0.000
11:06:00 AM	0.2	0.021	0.000
11:07:00 AM	0.1	0.026	0.000
11:08:00 AM	0.1	0.024	0.000
11:09:00 AM	0.0	0.023	0.000
11:10:00 AM	0.0	0.020	0.000
11:11:00 AM	0.0	0.021	0.000
11:12:00 AM	0.0	0.020	0.000
11:13:00 AM	0.1	0.020	0.000
11:14:00 AM	0.1	0.021	0.000
11:15:00 AM	0.1	0.020	0.000
11:16:00 AM	0.1	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:17:00 AM	0.1	0.073	0.000
11:18:00 AM	0.0	0.021	0.000
11:19:00 AM	0.1	0.020	0.000
11:20:00 AM	0.0	0.019	0.000
11:21:00 AM	0.1	0.019	0.000
11:22:00 AM	0.1	0.020	0.000
11:23:00 AM	0.0	0.020	0.000
11:24:00 AM	0.0	0.020	0.000
11:25:00 AM	0.1	0.020	0.000
11:26:00 AM	0.0	0.020	0.000
11:27:00 AM	0.1	0.020	0.000
11:28:00 AM	0.1	0.020	0.000
11:29:00 AM	0.0	0.020	0.000
11:30:00 AM	0.1	0.020	0.000
11:31:00 AM	0.0	0.020	0.000
11:32:00 AM	0.1	0.020	0.000
11:33:00 AM	0.1	0.020	0.000
11:34:00 AM	0.1	0.020	0.000
11:35:00 AM	0.1	0.020	0.000
11:36:00 AM	0.0	0.019	0.000
11:37:00 AM	0.1	0.020	0.000
11:38:00 AM	0.0	0.020	0.000
11:39:00 AM	0.0	0.020	0.000
11:40:00 AM	0.0	0.020	0.000
11:41:00 AM	0.1	0.020	0.000
11:42:00 AM	0.0	0.020	0.000
11:43:00 AM	0.0	0.019	0.000
11:44:00 AM	0.0	0.019	0.000
11:45:00 AM	0.1	0.021	0.000
11:46:00 AM	0.1	0.020	0.000
11:47:00 AM	0.0	0.020	0.000
11:48:00 AM	0.0	0.020	0.000
11:49:00 AM	0.0	0.020	0.000
11:50:00 AM	0.0	0.021	0.000
11:51:00 AM	0.0	0.020	0.000
11:52:00 AM	0.0	0.021	0.000
11:53:00 AM	0.0	0.020	0.000
11:54:00 AM	0.0	0.020	0.000
11:55:00 AM	0.0	0.020	0.000
11:56:00 AM	0.1	0.020	0.000
11:57:00 AM	0.0	0.020	0.000
11:58:00 AM	0.0	0.020	0.000
11:59:00 AM	0.0	0.020	0.000
12:00:00 PM	0.0	0.020	0.000
12:01:00 PM	0.0	0.021	0.000
12:02:00 PM	0.0	0.020	0.000
12:03:00 PM	0.0	0.020	0.000
12:04:00 PM	0.0	0.019	0.000
12:05:00 PM	0.1	0.019	0.000
12:06:00 PM	0.0	0.019	0.000
12:07:00 PM	0.0	0.019	0.000
12:08:00 PM	0.0	0.019	0.000
12:09:00 PM	0.1	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:10:00 PM	0.1	0.019	0.000
12:11:00 PM	0.1	0.019	0.000
12:12:00 PM	0.1	0.019	0.000
12:13:00 PM	0.1	0.019	0.000
12:14:00 PM	0.1	0.019	0.000
12:15:00 PM	0.1	0.019	0.000
12:16:00 PM	0.1	0.019	0.000
12:17:00 PM	0.0	0.020	0.000
12:18:00 PM	0.0	0.019	0.000
12:19:00 PM	0.0	0.020	0.000
12:20:00 PM	0.0	0.020	0.000
12:21:00 PM	0.0	0.019	0.000
12:22:00 PM	0.0	0.019	0.000
12:23:00 PM	0.0	0.019	0.000
12:24:00 PM	0.0	0.019	0.000
12:25:00 PM	0.0	0.020	0.000
12:26:00 PM	0.0	0.020	0.000
12:27:00 PM	0.1	0.020	0.000
12:28:00 PM	0.1	0.019	0.000
12:29:00 PM	0.0	0.019	0.000
12:30:00 PM	0.0	0.019	0.000
12:31:00 PM	0.0	0.019	0.000
12:32:00 PM	0.0	0.019	0.000
12:33:00 PM	0.0	0.019	0.000
12:34:00 PM	0.0	0.020	0.000
12:35:00 PM	0.0	0.020	0.000
12:36:00 PM	0.0	0.020	0.000
12:37:00 PM	0.0	0.020	0.000
12:38:00 PM	0.0	0.019	0.000
12:39:00 PM	0.0	0.019	0.000
12:40:00 PM	0.0	0.020	0.000
12:41:00 PM	0.0	0.020	0.000
12:42:00 PM	0.0	0.020	0.000
12:43:00 PM	0.0	0.019	0.000
12:44:00 PM	0.0	0.020	0.000
12:45:00 PM	0.0	0.020	0.000
12:46:00 PM	0.0	0.021	0.000
12:47:00 PM	0.0	0.021	0.000
12:48:00 PM	0.0	0.020	0.000
12:49:00 PM	0.0	0.021	0.000
12:50:00 PM	0.0	0.020	0.000
12:51:00 PM	0.1	0.028	0.000
12:52:00 PM	0.0	0.023	0.000
12:53:00 PM	0.0	0.021	0.000
12:54:00 PM	0.0	0.023	0.000
12:55:00 PM	0.0	0.023	0.000
12:56:00 PM	0.0	0.052	0.000
12:57:00 PM	0.0	0.052	0.000
12:58:00 PM	0.1	0.031	0.000
12:59:00 PM	0.0	0.028	0.000
1:00:00 PM	0.0	0.023	0.000
1:01:00 PM	0.0	0.023	0.000
1:02:00 PM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:03:00 PM	0.0	0.021	0.000
1:04:00 PM	0.0	0.021	0.000
1:05:00 PM	0.0	0.020	0.000
1:06:00 PM	0.0	0.021	0.000
1:07:00 PM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:36:00 AM	0.0	0.059	0.000
9:37:00 AM	0.0	0.024	0.000
9:38:00 AM	0.0	0.026	0.000
9:39:00 AM	0.0	0.023	0.000
9:40:00 AM	0.0	0.022	0.000
9:41:00 AM	0.0	0.022	0.000
9:42:00 AM	0.0	0.023	0.000
9:43:00 AM	0.0	0.023	0.000
9:44:00 AM	0.1	0.023	0.000
9:45:00 AM	0.0	0.022	0.000
9:46:00 AM	0.0	0.022	0.000
9:47:00 AM	0.0	0.020	0.000
9:48:00 AM	0.0	0.020	0.000
9:49:00 AM	0.0	0.021	0.000
9:50:00 AM	0.0	0.021	0.000
9:51:00 AM	0.0	0.022	0.000
9:52:00 AM	0.0	0.021	0.000
9:53:00 AM	0.0	0.022	0.000
9:54:00 AM	0.0	0.021	0.000
9:55:00 AM	0.0	0.021	0.000
9:56:00 AM	0.0	0.022	0.000
9:57:00 AM	0.0	0.022	0.000
9:58:00 AM	0.1	0.026	0.000
9:59:00 AM	0.0	0.025	0.000
10:00:00 AM	0.0	0.022	0.000
10:01:00 AM	0.0	0.022	0.000
10:02:00 AM	0.0	0.022	0.000
10:03:00 AM	0.0	0.021	0.000
10:04:00 AM	0.0	0.021	0.000
10:05:00 AM	0.0	0.023	0.000
10:06:00 AM	0.1	0.023	0.000
10:07:00 AM	0.1	0.023	0.000
10:08:00 AM	0.0	0.023	0.000
10:09:00 AM	0.1	0.023	0.000
10:10:00 AM	0.0	0.022	0.000
10:11:00 AM	0.1	0.021	0.000
10:12:00 AM	0.1	0.022	0.000
10:13:00 AM	0.1	0.022	0.000
10:14:00 AM	0.1	0.022	0.000
10:15:00 AM	0.1	0.022	0.000
10:16:00 AM	0.1	0.022	0.000
10:17:00 AM	0.1	0.022	0.000
10:18:00 AM	0.1	0.022	0.000
10:19:00 AM	0.1	0.023	0.000
10:20:00 AM	0.1	0.023	0.000
10:21:00 AM	0.1	0.023	0.000
10:22:00 AM	0.1	0.024	0.000
10:23:00 AM	0.1	0.023	0.000
10:24:00 AM	0.1	0.023	0.000
10:25:00 AM	0.1	0.023	0.000
10:26:00 AM	0.1	0.023	0.000
10:27:00 AM	0.1	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:28:00 AM	0.1	0.026	0.000
10:29:00 AM	0.1	0.026	0.000
10:30:00 AM	0.1	0.024	0.000
10:31:00 AM	0.1	0.023	0.000
10:32:00 AM	0.1	0.023	0.000
10:33:00 AM	0.1	0.023	0.000
10:34:00 AM	0.1	0.023	0.000
10:35:00 AM	0.2	0.025	0.000
10:36:00 AM	0.1	0.024	0.000
10:37:00 AM	0.2	0.023	0.000
10:38:00 AM	0.1	0.023	0.000
10:39:00 AM	0.1	0.023	0.000
10:40:00 AM	0.1	0.022	0.000
10:41:00 AM	0.1	0.022	0.000
10:42:00 AM	0.2	0.022	0.000
10:43:00 AM	0.2	0.023	0.000
10:44:00 AM	0.1	0.022	0.000
10:45:00 AM	0.2	0.023	0.000
10:46:00 AM	0.2	0.024	0.000
10:47:00 AM	0.2	0.024	0.000
10:48:00 AM	0.2	0.024	0.000
10:49:00 AM	0.2	0.023	0.000
10:50:00 AM	0.2	0.024	0.000
10:51:00 AM	0.2	0.025	0.000
10:52:00 AM	0.2	0.026	0.000
10:53:00 AM	0.2	0.024	0.000
10:54:00 AM	0.2	0.024	0.000
10:55:00 AM	0.2	0.024	0.000
10:56:00 AM	0.2	0.024	0.000
10:57:00 AM	0.2	0.023	0.000
10:58:00 AM	0.2	0.022	0.000
10:59:00 AM	0.2	0.022	0.000
11:00:00 AM	0.2	0.022	0.000
11:01:00 AM	0.2	0.022	0.000
11:02:00 AM	0.2	0.023	0.000
11:03:00 AM	0.2	0.023	0.000
11:04:00 AM	0.2	0.023	0.000
11:05:00 AM	0.2	0.023	0.000
11:06:00 AM	0.2	0.023	0.000
11:07:00 AM	0.2	0.023	0.000
11:08:00 AM	0.2	0.024	0.000
11:09:00 AM	0.2	0.023	0.000
11:10:00 AM	0.2	0.023	0.000
11:11:00 AM	0.2	0.024	0.000
11:12:00 AM	0.2	0.024	0.000
11:13:00 AM	0.2	0.024	0.000
11:14:00 AM	0.2	0.024	0.000
11:15:00 AM	0.2	0.024	0.000
11:16:00 AM	0.2	0.024	0.000
11:17:00 AM	0.2	0.043	0.000
11:18:00 AM	0.2	0.030	0.000
11:19:00 AM	0.2	0.023	0.000
11:20:00 AM	0.2	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:21:00 AM	0.2	0.023	0.000
11:22:00 AM	0.2	0.023	0.000
11:23:00 AM	0.2	0.023	0.000
11:24:00 AM	0.2	0.023	0.000
11:25:00 AM	0.2	0.023	0.000
11:26:00 AM	0.2	0.023	0.000
11:27:00 AM	0.2	0.023	0.000
11:28:00 AM	0.2	0.023	0.000
11:29:00 AM	0.2	0.023	0.000
11:30:00 AM	0.2	0.023	0.000
11:31:00 AM	0.2	0.023	0.000
11:32:00 AM	0.2	0.023	0.000
11:33:00 AM	0.2	0.023	0.000
11:34:00 AM	0.2	0.023	0.000
11:35:00 AM	0.2	0.023	0.000
11:36:00 AM	0.2	0.022	0.000
11:37:00 AM	0.2	0.023	0.000
11:38:00 AM	0.2	0.023	0.000
11:39:00 AM	0.2	0.023	0.000
11:40:00 AM	0.2	0.023	0.000
11:41:00 AM	0.2	0.023	0.000
11:42:00 AM	0.2	0.023	0.000
11:43:00 AM	0.2	0.024	0.000
11:44:00 AM	0.2	0.024	0.000
11:45:00 AM	0.2	0.024	0.000
11:46:00 AM	0.2	0.025	0.000
11:47:00 AM	0.3	0.025	0.000
11:48:00 AM	0.2	0.024	0.000
11:49:00 AM	0.2	0.023	0.000
11:50:00 AM	0.2	0.024	0.000
11:51:00 AM	0.2	0.023	0.000
11:52:00 AM	0.2	0.023	0.000
11:53:00 AM	0.2	0.023	0.000
11:54:00 AM	0.2	0.022	0.000
11:55:00 AM	0.2	0.022	0.000
11:56:00 AM	0.2	0.022	0.000
11:57:00 AM	0.2	0.022	0.000
11:58:00 AM	0.2	0.022	0.000
11:59:00 AM	0.2	0.022	0.000
12:00:00 PM	0.2	0.022	0.000
12:01:00 PM	0.2	0.023	0.000
12:02:00 PM	0.2	0.022	0.000
12:03:00 PM	0.2	0.022	0.000
12:04:00 PM	0.2	0.021	0.000
12:05:00 PM	0.2	0.022	0.000
12:06:00 PM	0.2	0.022	0.000
12:07:00 PM	0.3	0.022	0.000
12:08:00 PM	0.2	0.022	0.000
12:09:00 PM	0.2	0.022	0.000
12:10:00 PM	0.3	0.022	0.000
12:11:00 PM	0.2	0.022	0.000
12:12:00 PM	0.2	0.021	0.000
12:13:00 PM	0.3	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 3, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:14:00 PM	0.2	0.021	0.000
12:15:00 PM	0.2	0.021	0.000
12:16:00 PM	0.2	0.022	0.000
12:17:00 PM	0.2	0.021	0.000
12:18:00 PM	0.2	0.021	0.000
12:19:00 PM	0.2	0.021	0.000
12:20:00 PM	0.2	0.021	0.000
12:21:00 PM	0.3	0.021	0.000
12:22:00 PM	0.3	0.021	0.000
12:23:00 PM	0.3	0.022	0.000
12:24:00 PM	0.3	0.021	0.000
12:25:00 PM	0.3	0.022	0.000
12:26:00 PM	0.3	0.022	0.000
12:27:00 PM	0.3	0.022	0.000
12:28:00 PM	0.3	0.021	0.000
12:29:00 PM	0.3	0.021	0.000
12:30:00 PM	0.3	0.021	0.000
12:31:00 PM	0.3	0.021	0.000
12:32:00 PM	0.3	0.021	0.000
12:33:00 PM	0.3	0.021	0.000
12:34:00 PM	0.3	0.020	0.000
12:35:00 PM	0.3	0.021	0.000
12:36:00 PM	0.3	0.021	0.000
12:37:00 PM	0.3	0.021	0.000
12:38:00 PM	0.2	0.021	0.000
12:39:00 PM	0.3	0.021	0.000
12:40:00 PM	0.3	0.021	0.000
12:41:00 PM	0.3	0.021	0.000
12:42:00 PM	0.3	0.021	0.000
12:43:00 PM	0.3	0.022	0.000
12:44:00 PM	0.3	0.022	0.000
12:45:00 PM	0.3	0.021	0.000
12:46:00 PM	0.3	0.022	0.000
12:47:00 PM	0.3	0.022	0.000
12:48:00 PM	0.3	0.022	0.000
12:49:00 PM	0.2	0.022	0.000
12:50:00 PM	0.3	0.022	0.000
12:51:00 PM	0.3	0.022	0.000
12:52:00 PM	0.3	0.022	0.000
12:53:00 PM	0.3	0.023	0.000
12:54:00 PM	0.3	0.022	0.000
12:55:00 PM	0.3	0.060	0.000
12:56:00 PM	0.3	0.028	0.000
12:57:00 PM	0.3	0.056	0.000
12:58:00 PM	0.3	0.031	0.000
12:59:00 PM	0.3	0.023	0.000
1:00:00 PM	0.3	0.026	0.000
1:01:00 PM	0.3	0.023	0.000
1:02:00 PM	0.3	0.023	0.000
1:03:00 PM	0.3	0.024	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From W ~ 25 mph	Date:	3/4/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant: Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:05 am. Aarco continues to expose the dry well structure to allow for instillation of the digging box. Aarco placing all excavated soils onto the stockpile for disposal. Aarco setting the digging box and removing the first ring of the drywell and the cover and breaking up concrete for disposal. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor no field screening results noted above background readings of 0.0 PPM and 0.000 mg/m3. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.0`0	0.000	0.1	0.020	0.000
Down Wind	0.2	0.010	0.000	0.3	0.042	0.000
Work Zone	0.0	0.020	0.000	0.0	0.020	0.000

Exceedances (Since Last Report): None

Problems Encountered: Particulate monitor in downwind camp station stopped reporting, switched particulate monitor from work zone camp station to down wind camp station. Pine will bring replacement monitor tomorrow.

Planned Activities for the Next Day/ Week:

- Aarco will continue load out soils, sending two loads to Clean Earth for disposal, continue excavating area #7.



Aarco installing digging box around dry well structure.



Aarco removes rings from drywell.

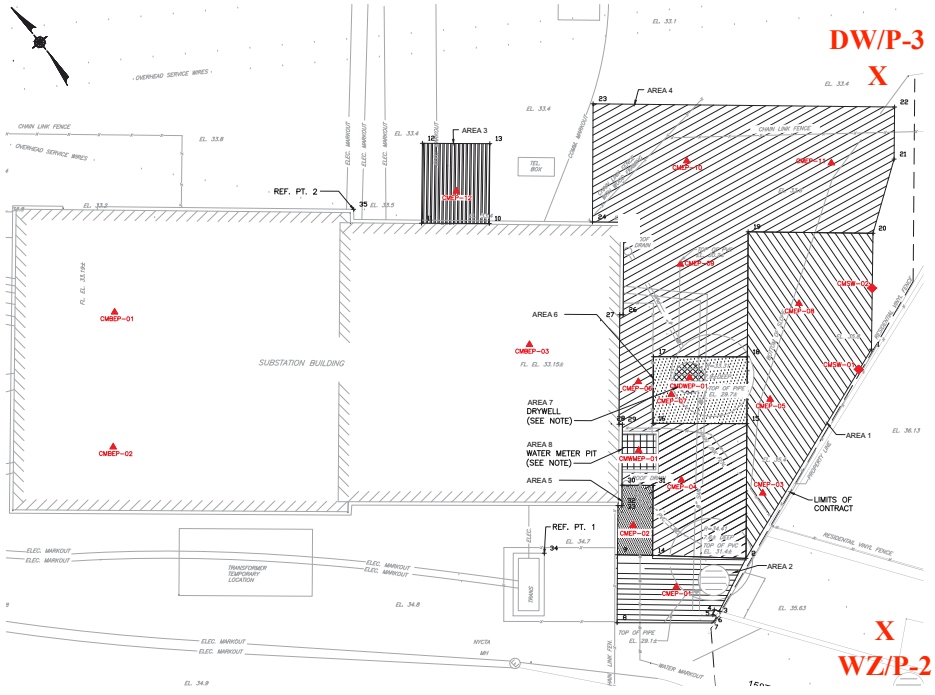


Preferred screening all excavated soils for VOCs and mercury.



Aarco breaking apart concrete, for disposal.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:31:00 AM		0.0	0.000
9:32:00 AM		0.019	0.000
9:33:00 AM		0.021	0.000
9:34:00 AM		0.023	0.000
9:35:00 AM		0.019	0.000
9:36:00 AM		0.018	0.000
9:37:00 AM		0.023	0.000
9:38:00 AM		0.021	0.000
9:39:00 AM		0.018	0.000
9:40:00 AM		0.019	0.000
9:41:00 AM		0.019	0.000
9:42:00 AM		0.021	0.000
9:43:00 AM		0.025	0.000
9:44:00 AM		0.017	0.000
9:45:00 AM		0.025	0.000
9:46:00 AM		0.015	0.000
9:47:00 AM		0.015	0.000
9:48:00 AM		0.016	0.000
9:49:00 AM		0.015	0.000
9:50:00 AM		0.020	0.000
9:51:00 AM		0.013	0.000
9:52:00 AM		0.013	0.000
9:53:00 AM		0.016	0.000
9:54:00 AM		0.012	0.000
9:55:00 AM		0.014	0.000
9:56:00 AM		0.013	0.000
9:57:00 AM		0.013	0.000
9:59:00 AM		0.012	0.000
10:00:00 AM		0.013	0.000
10:01:00 AM		0.013	0.000
10:02:00 AM		0.013	0.000
10:03:00 AM		0.013	0.000
10:04:00 AM		0.011	0.000
10:05:00 AM		0.011	0.000
10:06:00 AM		0.012	0.000
10:07:00 AM		0.010	0.000
10:08:00 AM		0.014	0.000
10:09:00 AM		0.017	0.000
10:10:00 AM		0.009	0.000
10:11:00 AM		0.009	0.000
10:13:00 AM	0.0		0.000
10:14:00 AM	0.0		0.000
10:15:00 AM	0.0	0.008	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.008	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.011	0.000
10:23:00 AM	0.0	0.007	0.000
10:24:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.011	0.000
10:33:00 AM	0.0	0.009	0.000
10:34:00 AM	0.0	0.009	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.007	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.008	0.000
10:51:00 AM	0.0	0.008	0.000
10:52:00 AM	0.0	0.009	0.000
10:53:00 AM	0.0	0.008	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.006	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.006	0.000
11:04:00 AM	0.0	0.007	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.007	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.007	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.008	0.000
11:14:00 AM	0.0	0.007	0.000
11:15:00 AM	0.0	0.007	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:18:00 AM	0.0	0.007	0.000
11:19:00 AM	0.0	0.008	0.000
11:20:00 AM	0.0	0.009	0.000
11:21:00 AM	0.0	0.007	0.000
11:22:00 AM	0.0	0.011	0.000
11:23:00 AM	0.0	0.007	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.008	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.008	0.000
11:31:00 AM	0.0	0.011	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.008	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.010	0.000
11:36:00 AM	0.0	0.009	0.000
11:37:00 AM	0.0	0.008	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.008	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.008	0.000
11:43:00 AM	0.0	0.008	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.009	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.008	0.000
11:49:00 AM	0.0	0.009	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.008	0.000
11:56:00 AM	0.0	0.007	0.000
11:57:00 AM	0.0	0.008	0.000
11:58:00 AM	0.0	0.009	0.000
11:59:00 AM	0.0	0.010	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.0	0.009	0.000
12:02:00 PM	0.0	0.010	0.000
12:03:00 PM	0.0	0.008	0.000
12:04:00 PM	0.0	0.008	0.000
12:05:00 PM	0.0	0.008	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.008	0.000
12:09:00 PM	0.0	0.011	0.000
12:10:00 PM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:11:00 PM	0.0	0.009	0.000
12:12:00 PM	0.0	0.019	0.000
12:13:00 PM	0.0	0.009	0.000
12:14:00 PM	0.0	0.011	0.000
12:15:00 PM	0.0	0.011	0.000
12:16:00 PM	0.0	0.010	0.000
12:17:00 PM	0.0	0.011	0.000
12:18:00 PM	0.0	0.012	0.000
12:19:00 PM	0.0	0.009	0.000
12:20:00 PM	0.0	0.008	0.000
12:21:00 PM	0.0	0.012	0.000
12:22:00 PM	0.0	0.022	0.000
12:23:00 PM	0.0	0.008	0.000
12:24:00 PM	0.0	0.010	0.000
12:25:00 PM	0.0	0.010	0.000
12:26:00 PM	0.0	0.009	0.000
12:27:00 PM	0.0	0.010	0.000
12:28:00 PM	0.0	0.008	0.000
12:29:00 PM	0.0	0.011	0.000
12:30:00 PM	0.0	0.009	0.000
12:31:00 PM	0.0	0.008	0.000
12:32:00 PM	0.0	0.008	0.000
12:33:00 PM	0.0	0.008	0.000
12:34:00 PM	0.0	0.008	0.000
12:35:00 PM	0.0	0.008	0.000
12:36:00 PM	0.0	0.009	0.000
12:37:00 PM	0.0	0.008	0.000
12:38:00 PM	0.0	0.009	0.000
12:39:00 PM	0.0	0.009	0.000
12:40:00 PM	0.0	0.010	0.000
12:41:00 PM	0.0	0.010	0.000
12:42:00 PM	0.0	0.009	0.000
12:43:00 PM	0.0	0.010	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.009	0.000
12:46:00 PM	0.0	0.009	0.000
12:47:00 PM	0.0	0.009	0.000
12:48:00 PM	0.0	0.009	0.000
12:49:00 PM	0.0	0.010	0.000
12:50:00 PM	0.0	0.010	0.000
12:51:00 PM	0.0	0.010	0.000
12:52:00 PM	0.0	0.010	0.000
12:53:00 PM	0.0	0.009	0.000
12:54:00 PM	0.0	0.008	0.000
12:55:00 PM	0.0	0.007	0.000
12:56:00 PM	0.0	0.007	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.0	0.006	0.000
12:59:00 PM	0.0	0.006	0.000
1:00:00 PM	0.0	0.007	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.0	0.008	0.000
1:03:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:04:00 PM	0.0	0.008	0.000
1:05:00 PM	0.0	0.007	0.000
1:06:00 PM	0.0	0.008	0.000
1:07:00 PM	0.0	0.009	0.000
1:08:00 PM	0.0	0.011	0.000
1:09:00 PM	0.0	0.010	0.000
1:10:00 PM	0.0	0.008	0.000
1:11:00 PM	0.0	0.007	0.000
1:12:00 PM	0.0	0.008	0.000
1:13:00 PM	0.0	0.007	0.000
1:14:00 PM	0.0	0.011	0.000
1:15:00 PM	0.0	0.008	0.000
1:16:00 PM	0.0	0.008	0.000
1:17:00 PM	0.0	0.008	0.000
1:18:00 PM	0.0	0.009	0.000
1:19:00 PM	0.0	0.010	0.000
1:20:00 PM	0.0	0.010	0.000
1:21:00 PM	0.1	0.009	0.000
1:22:00 PM	0.0	0.009	0.000
1:23:00 PM	0.0	0.008	0.000
1:24:00 PM	0.0	0.009	0.000
1:25:00 PM	0.0	0.008	0.000
1:26:00 PM	0.1	0.008	0.000
1:27:00 PM	0.0	0.008	0.000
1:28:00 PM	0.0	0.008	0.000
1:29:00 PM	0.0	0.008	0.000
1:30:00 PM	0.0	0.011	0.000
1:31:00 PM	0.0	0.009	0.000
1:32:00 PM	0.0	0.009	0.000
1:33:00 PM	0.0	0.011	0.000
1:34:00 PM	0.0	0.007	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.008	0.000
1:37:00 PM	0.1	0.011	0.000
1:38:00 PM	0.0	0.007	0.000
1:39:00 PM	0.0	0.007	0.000
1:40:00 PM	0.1	0.006	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.1	0.006	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.1	0.007	0.000
1:45:00 PM	0.1	0.009	0.000
1:46:00 PM	0.1	0.008	0.000
1:47:00 PM	0.2	0.008	0.000
1:48:00 PM	0.1	0.012	0.000
1:49:00 PM	0.1	0.010	0.000
1:50:00 PM	0.1	0.009	0.000
1:51:00 PM	0.1	0.009	0.000
1:52:00 PM	0.1	0.007	0.000
1:53:00 PM	0.1	0.011	0.000
1:54:00 PM	0.1	0.011	0.000
1:55:00 PM	0.1	0.007	0.000
1:56:00 PM	0.1	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:57:00 PM	0.1	0.007	0.000
1:58:00 PM	0.0	0.010	0.000
1:59:00 PM	0.1	0.007	0.000
2:00:00 PM	0.1	0.008	0.000
2:01:00 PM	0.1	0.009	0.000
2:02:00 PM	0.2	0.008	0.000
2:03:00 PM	0.2	0.008	0.000
2:04:00 PM	0.2	0.009	0.000
2:05:00 PM	0.1	0.008	0.000
2:06:00 PM	0.1	0.009	0.000
2:07:00 PM	0.2	0.009	0.000
2:08:00 PM	0.1	0.008	0.000
2:09:00 PM	0.1	0.009	0.000
2:10:00 PM	0.1	0.018	0.000
2:11:00 PM	0.1	0.007	0.000
2:12:00 PM	0.1	0.008	0.000
2:13:00 PM	0.1	0.008	0.000
2:14:00 PM	0.1	0.007	0.000
2:15:00 PM	0.1	0.008	0.000
2:16:00 PM	0.1	0.009	0.000
2:17:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:33:00 AM	0.0		0.000
9:34:00 AM	0.0	0.031	0.000
9:35:00 AM	0.0	0.021	0.000
9:36:00 AM	0.0	0.019	0.000
9:37:00 AM	0.0	0.020	0.000
9:38:00 AM	0.0	0.021	0.000
9:39:00 AM	0.0	0.018	0.000
9:40:00 AM	0.0	0.019	0.000
9:41:00 AM	0.0	0.020	0.000
9:42:00 AM	0.0	0.017	0.000
9:43:00 AM	0.0	0.020	0.000
9:44:00 AM	0.0	0.018	0.000
9:45:00 AM	0.0	0.022	0.000
9:46:00 AM	0.0	0.021	0.000
9:47:00 AM	0.0	0.016	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0		0.000
9:51:00 AM	0.0		0.000
9:52:00 AM	0.0		0.000
9:53:00 AM	0.0	0.080	0.000
9:54:00 AM	0.0	0.029	0.000
9:55:00 AM	0.0	0.019	0.000
9:56:00 AM	0.0	0.014	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.0	0.013	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.015	0.000
10:01:00 AM	0.0	0.014	0.000
10:02:00 AM	0.0		0.000
10:04:00 AM	0.0		0.000
10:05:00 AM	0.0		0.000
10:06:00 AM	0.0		0.000
10:07:00 AM	0.0		0.000
10:08:00 AM	0.0		0.000
10:09:00 AM	0.0		0.000
10:10:00 AM	0.0		0.000
10:11:00 AM	0.0		0.000
10:12:00 AM	0.0		0.000
10:13:00 AM	0.0		0.000
10:14:00 AM	0.0		0.000
10:15:00 AM	0.0		0.000
10:16:00 AM	0.0		0.000
10:17:00 AM	0.0		0.000
10:18:00 AM	0.0		0.000
10:19:00 AM	0.0		0.000
10:20:00 AM	0.0		0.000
10:21:00 AM	0.0		0.000
10:22:00 AM	0.0		0.000
10:23:00 AM	0.0		0.000
10:24:00 AM	0.0		0.000
10:25:00 AM	0.0		0.000
10:26:00 AM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:27:00 AM	0.0		0.000
10:28:00 AM	0.0		0.000
10:29:00 AM	0.0		0.000
10:30:00 AM	0.0		0.000
10:31:00 AM	0.0		0.000
10:32:00 AM	0.0		0.000
10:33:00 AM	0.0		0.000
10:34:00 AM	0.0		0.000
10:35:00 AM	0.0		0.000
10:36:00 AM	0.0		0.000
10:37:00 AM	0.0		0.000
10:38:00 AM	0.0		0.000
10:39:00 AM	0.0		0.000
10:40:00 AM	0.0		0.000
10:41:00 AM	0.0		0.000
10:42:00 AM	0.0		0.000
10:43:00 AM	0.0		0.000
10:44:00 AM	0.0		0.000
10:45:00 AM	0.0		0.000
10:46:00 AM	0.0		0.000
10:47:00 AM	0.0		0.000
10:48:00 AM	0.0		0.000
10:49:00 AM	0.0		0.000
10:50:00 AM	0.0		0.000
10:51:00 AM	0.0		0.000
10:52:00 AM	0.0		0.000
10:53:00 AM	0.0		0.000
10:54:00 AM	0.0		0.000
10:55:00 AM	0.0		0.000
10:56:00 AM	0.0		0.000
10:57:00 AM	0.0		0.000
10:58:00 AM	0.0		0.000
10:59:00 AM	0.0		0.000
11:00:00 AM	0.0		0.000
11:01:00 AM	0.0		0.000
11:02:00 AM	0.0		0.000
11:03:00 AM	0.0		0.000
11:04:00 AM	0.0		0.000
11:05:00 AM	0.0		0.000
11:06:00 AM	0.0		0.000
11:07:00 AM	0.0		0.000
11:08:00 AM	0.0		0.000
11:09:00 AM	0.0		0.000
11:10:00 AM	0.0		0.000
11:11:00 AM	0.0		0.000
11:12:00 AM	0.0		0.000
11:13:00 AM	0.0		0.000
11:14:00 AM	0.1		0.000
11:15:00 AM	0.1		0.000
11:16:00 AM	0.0		0.000
11:17:00 AM	0.0		0.000
11:18:00 AM	0.0		0.000
11:19:00 AM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:20:00 AM	0.0		0.000
11:21:00 AM	0.0		0.000
11:22:00 AM	0.0		0.000
11:23:00 AM	0.0		0.000
11:24:00 AM	0.0		0.000
11:25:00 AM	0.0		0.000
11:26:00 AM	0.0		0.000
11:27:00 AM	0.0		0.000
11:28:00 AM	0.0		0.000
11:29:00 AM	0.0		0.000
11:30:00 AM	0.0		0.000
11:31:00 AM	0.0		0.000
11:32:00 AM	0.0		0.000
11:33:00 AM	0.0		0.000
11:34:00 AM	0.0		0.000
11:35:00 AM	0.0		0.000
11:36:00 AM	0.0		0.000
11:37:00 AM	0.0		0.000
11:38:00 AM	0.0		0.000
11:39:00 AM	0.0		0.000
11:40:00 AM	0.0		0.000
11:41:00 AM	0.0		0.000
11:42:00 AM	0.0		0.000
11:43:00 AM	0.0		0.000
11:44:00 AM	0.0		0.000
11:45:00 AM	0.0		0.000
11:46:00 AM	0.0		0.000
11:47:00 AM	0.0		0.000
11:48:00 AM	0.0		0.000
11:49:00 AM	0.0		0.000
11:50:00 AM	0.0		0.000
11:51:00 AM	0.0		0.000
11:52:00 AM	0.0		0.000
11:53:00 AM	0.0		0.000
11:54:00 AM	0.0		0.000
11:55:00 AM	0.0		0.000
11:56:00 AM	0.0		0.000
11:57:00 AM	0.0		0.000
11:58:00 AM	0.0		0.000
11:59:00 AM	0.0		0.000
12:00:00 PM	0.0		0.000
12:01:00 PM	0.0		0.000
12:02:00 PM	0.0		0.000
12:03:00 PM	0.0		0.000
12:04:00 PM	0.0		0.000
12:05:00 PM	0.0		0.000
12:06:00 PM	0.0		0.000
12:07:00 PM	0.0		0.000
12:08:00 PM	0.0		0.000
12:09:00 PM	0.0		0.000
12:10:00 PM	0.0		0.000
12:11:00 PM	0.0		0.000
12:12:00 PM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:13:00 PM	0.0		0.000
12:14:00 PM	0.1		0.000
12:15:00 PM	0.0		0.000
12:16:00 PM	0.0		0.000
12:17:00 PM	0.0		0.000
12:18:00 PM	0.0		0.000
12:19:00 PM	0.0		0.000
12:20:00 PM	0.0		0.000
12:21:00 PM	0.0		0.000
12:22:00 PM	0.0		0.000
12:23:00 PM	0.0		0.000
12:24:00 PM	0.0		0.000
12:25:00 PM	0.0		0.000
12:26:00 PM	0.0		0.000
12:27:00 PM	0.0		0.000
12:28:00 PM	0.0		0.000
12:29:00 PM	0.0		0.000
12:30:00 PM	0.0		0.000
12:31:00 PM	0.0		0.000
12:32:00 PM	0.0		0.000
12:33:00 PM	0.0		0.000
12:34:00 PM	0.0		0.000
12:35:00 PM	0.0		0.000
12:36:00 PM	0.0		0.000
12:37:00 PM	0.0		0.000
12:38:00 PM	0.0		0.000
12:39:00 PM	0.0		0.000
12:40:00 PM	0.0		0.000
12:41:00 PM	0.0		0.000
12:42:00 PM	0.0		0.000
12:43:00 PM	0.0		0.000
12:44:00 PM	0.0		0.000
12:45:00 PM	0.0		0.000
12:46:00 PM	0.0		0.000
12:47:00 PM	0.0		0.000
12:48:00 PM	0.0		0.000
12:49:00 PM	0.0		0.000
12:50:00 PM	0.0		0.000
12:51:00 PM	0.0		0.000
12:52:00 PM	0.0		0.000
12:53:00 PM	0.0		0.000
12:54:00 PM	0.0		0.000
12:55:00 PM	0.0		0.000
12:56:00 PM	0.0		0.000
12:57:00 PM	0.0		0.000
12:58:00 PM	0.0		0.000
12:59:00 PM	0.0		0.000
1:00:00 PM	0.0		0.000
1:01:00 PM	0.0		0.000
1:02:00 PM	0.0		0.000
1:03:00 PM	0.0		0.000
1:04:00 PM	0.0		0.000
1:05:00 PM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:06:00 PM	0.0		0.000
1:07:00 PM	0.0		0.000
1:08:00 PM	0.0		0.000
1:09:00 PM	0.0		0.000
1:10:00 PM	0.0		0.000
1:11:00 PM	0.0		0.000
1:12:00 PM	0.0		0.000
1:13:00 PM	0.0		0.000
1:14:00 PM	0.0		0.000
1:15:00 PM	0.0		0.000
1:16:00 PM	0.0		0.000
1:17:00 PM	0.0		0.000
1:18:00 PM	0.0		0.000
1:19:00 PM	0.0		0.000
1:20:00 PM	0.0		0.000
1:21:00 PM	0.0		0.000
1:22:00 PM	0.0		0.000
1:23:00 PM	0.0		0.000
1:24:00 PM	0.0		0.000
1:25:00 PM	0.0		0.000
1:26:00 PM	0.0		0.000
1:27:00 PM	0.0		0.000
1:28:00 PM	0.0		0.000
1:29:00 PM	0.0		0.000
1:30:00 PM	0.0		0.000
1:31:00 PM	0.0		0.000
1:32:00 PM	0.0		0.000
1:33:00 PM	0.0		0.000
1:34:00 PM	0.0		0.000
1:35:00 PM	0.0		0.000
1:36:00 PM	0.0		0.000
1:37:00 PM	0.0		0.000
1:38:00 PM	0.0		0.000
1:39:00 PM	0.0		0.000
1:40:00 PM	0.0		0.000
1:41:00 PM	0.0		0.000
1:42:00 PM	0.0		0.000
1:43:00 PM	0.0		0.000
1:44:00 PM	0.0		0.000
1:45:00 PM	0.0		0.000
1:46:00 PM	0.0		0.000
1:47:00 PM	0.0		0.000
1:48:00 PM	0.0		0.000
1:49:00 PM	0.0		0.000
1:50:00 PM	0.0		0.000
1:51:00 PM	0.0		0.000
1:52:00 PM	0.0		0.000
1:53:00 PM	0.0		0.000
1:54:00 PM	0.0		0.000
1:55:00 PM	0.0		0.000
1:56:00 PM	0.0		0.000
1:57:00 PM	0.0		0.000
1:58:00 PM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:59:00 PM	0.0		0.000
2:00:00 PM	0.0		0.000
2:01:00 PM	0.0		0.000
2:02:00 PM	0.0		0.000
2:03:00 PM	0.0		0.000
2:04:00 PM	0.0		0.000
2:05:00 PM	0.0		0.000
2:06:00 PM	0.0		0.000
2:07:00 PM	0.0		0.000
2:08:00 PM	0.0		0.000
2:09:00 PM	0.0		0.000
2:10:00 PM	0.0		0.000
2:11:00 PM	0.0		0.000
2:12:00 PM	0.0		0.000
2:13:00 PM	0.0		0.000
2:14:00 PM	0.0		0.000
2:15:00 PM	0.0		0.000
2:16:00 PM	0.0		0.000
2:17:00 PM	0.0		0.000
2:18:00 PM	0.0		0.000
2:19:00 PM	0.0		0.000
2:20:00 PM	0.0		0.000
2:21:00 PM	0.0		0.000
2:22:00 PM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:37:00 AM	0.0		0.000
9:38:00 AM	0.0		0.000
9:39:00 AM	0.0		0.000
9:40:00 AM	0.0		0.000
9:41:00 AM	0.0		0.000
9:42:00 AM	0.0		0.000
9:43:00 AM	0.0		0.000
9:44:00 AM	0.0		0.000
9:46:00 AM	0.0		0.000
9:47:00 AM	0.0		0.000
9:48:00 AM	0.0		0.000
9:50:00 AM	0.0		0.000
9:51:00 AM	0.0		0.000
9:52:00 AM	0.0		0.000
9:53:00 AM	0.0		0.000
9:54:00 AM	0.0		0.000
9:55:00 AM	0.0		0.000
9:56:00 AM	0.0		0.000
9:57:00 AM	0.0		0.000
9:58:00 AM	0.0		0.000
9:59:00 AM	0.0		0.000
10:00:00 AM	0.0		0.000
10:01:00 AM	0.0		0.000
10:04:00 AM	0.0		0.000
10:05:00 AM	0.0		0.000
10:06:00 AM	0.0	0.042	0.000
10:07:00 AM	0.0	0.012	0.000
10:08:00 AM	0.0	0.012	0.000
10:09:00 AM	0.0	0.011	0.000
10:10:00 AM	0.3	0.050	0.000
10:11:00 AM	0.0	0.069	0.000
10:12:00 AM	0.0	0.013	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.010	0.000
10:17:00 AM	0.0	0.010	0.000
10:18:00 AM	0.0	0.010	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.010	0.000
10:21:00 AM	0.0	0.026	0.000
10:22:00 AM	0.0	0.014	0.000
10:23:00 AM	0.0	0.010	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.009	0.000
10:26:00 AM	0.1	0.010	0.000
10:27:00 AM	0.1	0.009	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.009	0.000
10:31:00 AM	0.1	0.009	0.000
10:32:00 AM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:33:00 AM	0.1	0.015	0.000
10:34:00 AM	0.1	0.008	0.000
10:35:00 AM	0.1	0.008	0.000
10:36:00 AM	0.1	0.009	0.000
10:37:00 AM	0.1	0.009	0.000
10:38:00 AM	0.1	0.008	0.000
10:39:00 AM	0.1	0.008	0.000
10:40:00 AM	0.1	0.009	0.000
10:41:00 AM	0.1	0.010	0.000
10:42:00 AM	0.1	0.009	0.000
10:43:00 AM	0.1	0.009	0.000
10:44:00 AM	0.1	0.009	0.000
10:45:00 AM	0.1	0.008	0.000
10:46:00 AM	0.1	0.008	0.000
10:47:00 AM	0.1	0.009	0.000
10:48:00 AM	0.1	0.008	0.000
10:49:00 AM	0.1	0.010	0.000
10:50:00 AM	0.1	0.011	0.000
10:51:00 AM	0.1	0.010	0.000
10:52:00 AM	0.1	0.010	0.000
10:53:00 AM	0.1	0.009	0.000
10:54:00 AM	0.1	0.008	0.000
10:55:00 AM	0.1	0.007	0.000
10:56:00 AM	0.1	0.007	0.000
10:57:00 AM	0.1	0.008	0.000
10:58:00 AM	0.1	0.008	0.000
10:59:00 AM	0.1	0.008	0.000
11:00:00 AM	0.1	0.008	0.000
11:01:00 AM	0.1	0.009	0.000
11:02:00 AM	0.1	0.009	0.000
11:03:00 AM	0.1	0.007	0.000
11:04:00 AM	0.1	0.009	0.000
11:05:00 AM	0.1	0.008	0.000
11:06:00 AM	0.1	0.007	0.000
11:07:00 AM	0.1	0.008	0.000
11:08:00 AM	0.1	0.007	0.000
11:09:00 AM	0.1	0.008	0.000
11:10:00 AM	0.1	0.008	0.000
11:11:00 AM	0.2	0.009	0.000
11:12:00 AM	0.2	0.009	0.000
11:13:00 AM	0.1	0.008	0.000
11:14:00 AM	0.2	0.008	0.000
11:15:00 AM	0.1	0.008	0.000
11:16:00 AM	0.1	0.009	0.000
11:17:00 AM	0.2	0.009	0.000
11:18:00 AM	0.2	0.008	0.000
11:19:00 AM	0.2	0.008	0.000
11:20:00 AM	0.1	0.008	0.000
11:21:00 AM	0.2	0.008	0.000
11:22:00 AM	0.2	0.008	0.000
11:23:00 AM	0.2	0.010	0.000
11:24:00 AM	0.2	0.011	0.000
11:25:00 AM	0.2	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:26:00 AM	0.2	0.009	0.000
11:27:00 AM	0.2	0.009	0.000
11:28:00 AM	0.2	0.010	0.000
11:29:00 AM	0.2	0.008	0.000
11:30:00 AM	0.2	0.009	0.000
11:31:00 AM	0.2	0.009	0.000
11:32:00 AM	0.2	0.010	0.000
11:33:00 AM	0.2	0.009	0.000
11:34:00 AM	0.2	0.009	0.000
11:35:00 AM	0.2	0.009	0.000
11:36:00 AM	0.2	0.009	0.000
11:37:00 AM	0.2	0.011	0.000
11:38:00 AM	0.2	0.010	0.000
11:39:00 AM	0.2	0.009	0.000
11:40:00 AM	0.2	0.009	0.000
11:41:00 AM	0.2	0.009	0.000
11:42:00 AM	0.2	0.010	0.000
11:43:00 AM	0.2	0.009	0.000
11:44:00 AM	0.2	0.010	0.000
11:45:00 AM	0.2	0.010	0.000
11:46:00 AM	0.2	0.009	0.000
11:47:00 AM	0.2	0.009	0.000
11:48:00 AM	0.2	0.010	0.000
11:49:00 AM	0.2	0.009	0.000
11:50:00 AM	0.2	0.010	0.000
11:51:00 AM	0.2	0.010	0.000
11:52:00 AM	0.2	0.009	0.000
11:53:00 AM	0.2	0.009	0.000
11:54:00 AM	0.2	0.009	0.000
11:55:00 AM	0.2	0.008	0.000
11:56:00 AM	0.2	0.009	0.000
11:57:00 AM	0.2	0.009	0.000
11:58:00 AM	0.2	0.009	0.000
11:59:00 AM	0.2	0.011	0.000
12:00:00 PM	0.2	0.010	0.000
12:01:00 PM	0.2	0.015	0.000
12:02:00 PM	0.2	0.009	0.000
12:03:00 PM	0.2	0.009	0.000
12:04:00 PM	0.2	0.010	0.000
12:05:00 PM	0.2	0.010	0.000
12:06:00 PM	0.2	0.009	0.000
12:07:00 PM	0.2	0.009	0.000
12:08:00 PM	0.2	0.010	0.000
12:09:00 PM	0.2	0.012	0.000
12:10:00 PM	0.2	0.011	0.000
12:11:00 PM	0.2	0.010	0.000
12:12:00 PM	0.2	0.009	0.000
12:13:00 PM	0.2	0.009	0.000
12:14:00 PM	0.2	0.009	0.000
12:15:00 PM	0.2	0.009	0.000
12:16:00 PM	0.2	0.010	0.000
12:17:00 PM	0.2	0.009	0.000
12:18:00 PM	0.2	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:19:00 PM	0.2	0.009	0.000
12:20:00 PM	0.2	0.010	0.000
12:21:00 PM	0.2	0.013	0.000
12:22:00 PM	0.2	0.010	0.000
12:23:00 PM	0.2	0.010	0.000
12:24:00 PM	0.2	0.011	0.000
12:25:00 PM	0.2	0.013	0.000
12:26:00 PM	0.2	0.015	0.000
12:27:00 PM	0.2	0.014	0.000
12:28:00 PM	0.2	0.012	0.000
12:29:00 PM	0.2	0.012	0.000
12:30:00 PM	0.2	0.012	0.000
12:31:00 PM	0.2	0.011	0.000
12:32:00 PM	0.2	0.010	0.000
12:33:00 PM	0.2	0.010	0.000
12:34:00 PM	0.2	0.010	0.000
12:35:00 PM	0.2	0.010	0.000
12:36:00 PM	0.2	0.010	0.000
12:37:00 PM	0.2	0.010	0.000
12:38:00 PM	0.2	0.010	0.000
12:39:00 PM	0.2	0.011	0.000
12:40:00 PM	0.2	0.011	0.000
12:41:00 PM	0.2	0.010	0.000
12:42:00 PM	0.2	0.010	0.000
12:43:00 PM	0.2	0.009	0.000
12:44:00 PM	0.2	0.009	0.000
12:45:00 PM	0.2	0.011	0.000
12:46:00 PM	0.2	0.011	0.000
12:47:00 PM	0.2	0.010	0.000
12:48:00 PM	0.2	0.011	0.000
12:49:00 PM	0.2	0.011	0.000
12:50:00 PM	0.2	0.011	0.000
12:51:00 PM	0.2	0.011	0.000
12:52:00 PM	0.2	0.011	0.000
12:53:00 PM	0.2	0.010	0.000
12:54:00 PM	0.2	0.008	0.000
12:55:00 PM	0.2	0.008	0.000
12:56:00 PM	0.2	0.008	0.000
12:57:00 PM	0.2	0.008	0.000
12:58:00 PM	0.2	0.008	0.000
12:59:00 PM	0.2	0.007	0.000
1:00:00 PM	0.2	0.008	0.000
1:01:00 PM	0.2	0.008	0.000
1:02:00 PM	0.3	0.008	0.000
1:03:00 PM	0.2	0.007	0.000
1:04:00 PM	0.2	0.008	0.000
1:05:00 PM	0.2	0.007	0.000
1:06:00 PM	0.2	0.008	0.000
1:07:00 PM	0.2	0.009	0.000
1:08:00 PM	0.3	0.011	0.000
1:09:00 PM	0.3	0.011	0.000
1:10:00 PM	0.3	0.009	0.000
1:11:00 PM	0.3	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:12:00 PM	0.2	0.009	0.000
1:13:00 PM	0.3	0.008	0.000
1:14:00 PM	0.3	0.008	0.000
1:15:00 PM	0.2	0.010	0.000
1:16:00 PM	0.3	0.010	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.3	0.009	0.000
1:19:00 PM	0.2	0.011	0.000
1:20:00 PM	0.3	0.018	0.000
1:21:00 PM	0.3	0.012	0.000
1:22:00 PM	0.3	0.010	0.000
1:23:00 PM	0.2	0.010	0.000
1:24:00 PM	0.2	0.009	0.000
1:25:00 PM	0.3	0.010	0.000
1:26:00 PM	0.2	0.010	0.000
1:27:00 PM	0.2	0.009	0.000
1:28:00 PM	0.3	0.008	0.000
1:29:00 PM	0.3	0.010	0.000
1:30:00 PM	0.3	0.010	0.000
1:31:00 PM	0.3	0.012	0.000
1:32:00 PM	0.3	0.013	0.000
1:33:00 PM	0.3	0.010	0.000
1:34:00 PM	0.3	0.012	0.000
1:35:00 PM	0.3	0.009	0.000
1:36:00 PM	0.3	0.011	0.000
1:37:00 PM	0.2	0.009	0.000
1:38:00 PM	0.2	0.008	0.000
1:39:00 PM	0.3	0.007	0.000
1:40:00 PM	0.3	0.007	0.000
1:41:00 PM	0.3	0.007	0.000
1:42:00 PM	0.3	0.007	0.000
1:43:00 PM	0.3	0.007	0.000
1:44:00 PM	0.3	0.008	0.000
1:45:00 PM	0.3	0.008	0.000
1:46:00 PM	0.3	0.008	0.000
1:47:00 PM	0.3	0.008	0.000
1:48:00 PM	0.3	0.009	0.000
1:49:00 PM	0.2	0.009	0.000
1:50:00 PM	0.2	0.009	0.000
1:51:00 PM	0.3	0.008	0.000
1:52:00 PM	0.3	0.009	0.000
1:53:00 PM	0.2	0.009	0.000
1:54:00 PM	0.3	0.007	0.000
1:55:00 PM	0.2	0.008	0.000
1:56:00 PM	0.2	0.008	0.000
1:57:00 PM	0.3	0.008	0.000
1:58:00 PM	0.2	0.008	0.000
1:59:00 PM	0.2	0.007	0.000
2:00:00 PM	0.3	0.009	0.000
2:01:00 PM	0.3	0.009	0.000
2:02:00 PM	0.3	0.009	0.000
2:03:00 PM	0.3	0.009	0.000
2:04:00 PM	0.3	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 4, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:05:00 PM	0.3	0.009	0.000
2:06:00 PM	0.3	0.009	0.000
2:07:00 PM	0.3	0.009	0.000
2:08:00 PM	0.3	0.009	0.000
2:09:00 PM	0.3	0.01	0.000
2:10:00 PM	0.3	0.008	0.000
2:11:00 PM	0.3	0.008	0.000
2:12:00 PM	0.3	0.009	0.000
2:13:00 PM	0.3	0.009	0.000
2:14:00 PM	0.3	0.008	0.000
2:15:00 PM	0.3	0.009	0.000
2:16:00 PM	0.3	0.009	0.000
2:17:00 PM	0.3	0.008	0.000
2:18:00 PM	0.3	0.008	0.000
2:19:00 PM	0.3	0.008	0.000
2:20:00 PM	0.3	0.013	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 20 mph	Date:	3/5/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco continues to excavating within the dry well structure. Aarco placing all excavated soils onto the stockpile for disposal. Aarco loading out two trucks for disposal at Clean Earth Carteret. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor no field screening results noted above background readings of 0.0 PPM and 0.000 mg/m3. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.004	0.000	0.2	0.013	0.000
Down Wind	0.1	0.005	0.000	0.2	0.012	0.000
Work Zone	0.0	0.011	0.000	0.0	0.024	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue to excavate within area #7.



Aarco loading out two trucks of soil for disposal at Clean Earth.



Aarco excavating within dry well rings to a maximum depth of 14 feet.

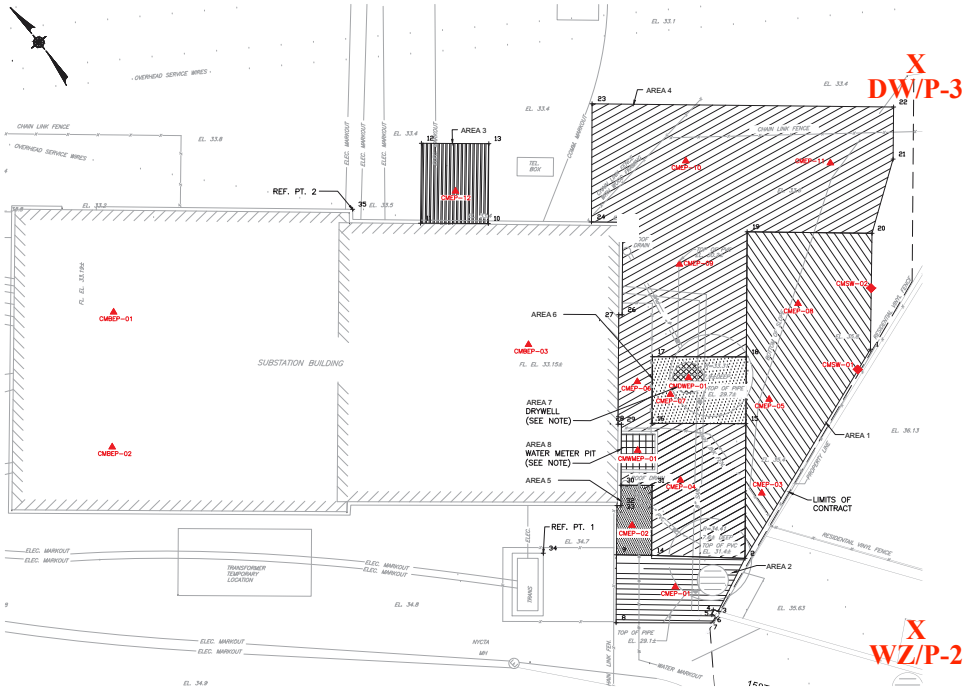


Preferred screening all excavated soils for VOCs and mercury.



Aarco placing all excavated soils with on to the stockpile.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:19:00 AM		0.114	0.000
9:20:00 AM		0.007	0.000
9:21:00 AM		0.004	0.000
9:22:00 AM		0.002	0.000
9:23:00 AM		0.002	0.000
9:24:00 AM		0.003	0.000
9:25:00 AM		0.003	0.000
9:27:00 AM	0.0	0.002	0.000
9:28:00 AM	0.0	0.002	0.000
9:29:00 AM	0.0	0.002	0.000
9:30:00 AM	0.0	0.002	0.000
9:31:00 AM	0.0	0.002	0.000
9:32:00 AM	0.0	0.004	0.000
9:33:00 AM	0.0	0.003	0.000
9:34:00 AM	0.0	0.004	0.000
9:35:00 AM	0.0	0.003	0.000
9:36:00 AM	0.0	0.003	0.000
9:37:00 AM	0.0	0.003	0.000
9:38:00 AM	0.0	0.003	0.000
9:39:00 AM	0.0	0.006	0.000
9:40:00 AM	0.0	0.006	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.003	0.000
9:43:00 AM	0.0	0.006	0.000
9:44:00 AM	0.0	0.003	0.000
9:45:00 AM	0.0	0.003	0.000
9:46:00 AM	0.0	0.002	0.000
9:47:00 AM	0.0	0.002	0.000
9:48:00 AM	0.0	0.003	0.000
9:49:00 AM	0.0	0.002	0.000
9:50:00 AM	0.0	0.003	0.000
9:51:00 AM	0.0	0.003	0.000
9:52:00 AM	0.0	0.003	0.000
9:53:00 AM	0.0	0.003	0.000
9:54:00 AM	0.0	0.003	0.000
9:55:00 AM	0.0	0.002	0.000
9:56:00 AM	0.0	0.002	0.000
9:57:00 AM	0.0	0.002	0.000
9:58:00 AM	0.0	0.002	0.000
9:59:00 AM	0.0	0.003	0.000
10:00:00 AM	0.0	0.003	0.000
10:01:00 AM	0.0	0.003	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.003	0.000
10:04:00 AM	0.0	0.002	0.000
10:05:00 AM	0.0	0.002	0.000
10:06:00 AM	0.0	0.003	0.000
10:07:00 AM	0.0	0.003	0.000
10:08:00 AM	0.0	0.003	0.000
10:09:00 AM	0.0	0.002	0.000
10:10:00 AM	0.0	0.002	0.000
10:11:00 AM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:12:00 AM	0.0	0.003	0.000
10:13:00 AM	0.0	0.003	0.000
10:14:00 AM	0.0	0.003	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.003	0.000
10:17:00 AM	0.0	0.002	0.000
10:18:00 AM	0.0	0.002	0.000
10:19:00 AM	0.0	0.002	0.000
10:20:00 AM	0.0	0.002	0.000
10:21:00 AM	0.0	0.003	0.000
10:22:00 AM	0.0	0.002	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.0	0.003	0.000
10:25:00 AM	0.0	0.003	0.000
10:26:00 AM	0.0	0.003	0.000
10:27:00 AM	0.0	0.003	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.010	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.003	0.000
10:34:00 AM	0.0	0.003	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.0	0.003	0.000
10:38:00 AM	0.0	0.004	0.000
10:39:00 AM	0.0	0.003	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.003	0.000
10:42:00 AM	0.0	0.012	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.004	0.000
10:46:00 AM	0.0	0.004	0.000
10:47:00 AM	0.0	0.003	0.000
10:48:00 AM	0.0	0.009	0.000
10:49:00 AM	0.0	0.003	0.000
10:50:00 AM	0.0	0.004	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.002	0.000
10:53:00 AM	0.0	0.004	0.000
10:54:00 AM	0.0	0.004	0.000
10:55:00 AM	0.0	0.012	0.000
10:56:00 AM	0.0	0.003	0.000
10:57:00 AM	0.0	0.005	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.003	0.000
11:00:00 AM	0.0	0.003	0.000
11:01:00 AM	0.0	0.003	0.000
11:02:00 AM	0.0	0.009	0.000
11:03:00 AM	0.0	0.003	0.000
11:04:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:05:00 AM	0.0	0.009	0.000
11:06:00 AM	0.0	0.017	0.000
11:07:00 AM	0.0	0.003	0.000
11:08:00 AM	0.0	0.015	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.003	0.000
11:13:00 AM	0.0	0.014	0.000
11:14:00 AM	0.0	0.006	0.000
11:15:00 AM	0.0	0.010	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.002	0.000
11:19:00 AM	0.0	0.002	0.000
11:20:00 AM	0.0	0.005	0.000
11:21:00 AM	0.0	0.003	0.000
11:22:00 AM	0.0	0.002	0.000
11:23:00 AM	0.0	0.002	0.000
11:24:00 AM	0.0	0.003	0.000
11:25:00 AM	0.0	0.002	0.000
11:26:00 AM	0.0	0.002	0.000
11:27:00 AM	0.0	0.003	0.000
11:28:00 AM	0.0	0.005	0.000
11:29:00 AM	0.0	0.005	0.000
11:30:00 AM	0.0	0.005	0.000
11:31:00 AM	0.0	0.005	0.000
11:32:00 AM	0.0	0.003	0.000
11:33:00 AM	0.0	0.005	0.000
11:34:00 AM	0.0	0.003	0.000
11:35:00 AM	0.0	0.004	0.000
11:36:00 AM	0.0	0.002	0.000
11:37:00 AM	0.0	0.003	0.000
11:38:00 AM	0.0	0.003	0.000
11:39:00 AM	0.0	0.003	0.000
11:40:00 AM	0.0	0.003	0.000
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.002	0.000
11:43:00 AM	0.0	0.002	0.000
11:44:00 AM	0.0	0.002	0.000
11:45:00 AM	0.0	0.002	0.000
11:46:00 AM	0.0	0.002	0.000
11:47:00 AM	0.0	0.002	0.000
11:48:00 AM	0.0	0.002	0.000
11:49:00 AM	0.0	0.012	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.024	0.000
11:52:00 AM	0.0	0.015	0.000
11:53:00 AM	0.0	0.010	0.000
11:54:00 AM	0.0	0.003	0.000
11:55:00 AM	0.0	0.004	0.000
11:56:00 AM	0.0	0.002	0.000
11:57:00 AM	0.0	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:58:00 AM	0.0	0.003	0.000
11:59:00 AM	0.1	0.007	0.000
12:00:00 PM	0.0	0.002	0.000
12:01:00 PM	0.0	0.012	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.002	0.000
12:04:00 PM	0.0	0.008	0.000
12:05:00 PM	0.1	0.004	0.000
12:06:00 PM	0.0	0.003	0.000
12:07:00 PM	0.1	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.003	0.000
12:11:00 PM	0.0	0.003	0.000
12:12:00 PM	0.1	0.002	0.000
12:13:00 PM	0.0	0.002	0.000
12:14:00 PM	0.1	0.002	0.000
12:15:00 PM	0.1	0.003	0.000
12:16:00 PM	0.0	0.002	0.000
12:17:00 PM	0.0	0.002	0.000
12:18:00 PM	0.1	0.003	0.000
12:19:00 PM	0.1	0.004	0.000
12:20:00 PM	0.1	0.003	0.000
12:21:00 PM	0.1	0.003	0.000
12:22:00 PM	0.1	0.005	0.000
12:23:00 PM	0.1	0.002	0.000
12:24:00 PM	0.0	0.004	0.000
12:25:00 PM	0.0	0.003	0.000
12:26:00 PM	0.1	0.003	0.000
12:27:00 PM	0.1	0.002	0.000
12:28:00 PM	0.1	0.002	0.000
12:29:00 PM	0.1	0.002	0.000
12:30:00 PM	0.2	0.002	0.000
12:31:00 PM	0.1	0.002	0.000
12:32:00 PM	0.1	0.002	0.000
12:33:00 PM	0.1	0.002	0.000
12:34:00 PM	0.1	0.002	0.000
12:35:00 PM	0.1	0.002	0.000
12:36:00 PM	0.1	0.002	0.000
12:37:00 PM	0.1	0.002	0.000
12:38:00 PM	0.1	0.002	0.000
12:39:00 PM	0.1	0.001	0.000
12:40:00 PM	0.1	0.001	0.000
12:41:00 PM	0.1	0.001	0.000
12:42:00 PM	0.1	0.002	0.000
12:43:00 PM	0.1	0.008	0.000
12:44:00 PM	0.1	0.008	0.000
12:45:00 PM	0.2	0.002	0.000
12:46:00 PM	0.2	0.004	0.000
12:47:00 PM	0.2	0.003	0.000
12:48:00 PM	0.3	0.007	0.000
12:49:00 PM	0.2	0.002	0.000
12:50:00 PM	0.2	0.085	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:51:00 PM	0.2	0.007	0.000
12:52:00 PM	0.3	0.009	0.000
12:53:00 PM	0.2	0.025	0.000
12:54:00 PM	0.2	0.007	0.000
12:55:00 PM	0.1	0.005	0.000
12:56:00 PM	0.2	0.011	0.000
12:57:00 PM	0.2	0.006	0.000
12:58:00 PM	0.2	0.007	0.000
12:59:00 PM	0.2	0.004	0.000
1:00:00 PM	0.2	0.004	0.000
1:01:00 PM	0.2	0.003	0.000
1:02:00 PM	0.3	0.003	0.000
1:03:00 PM	0.2	0.003	0.000
1:04:00 PM	0.2	0.004	0.000
1:05:00 PM	0.2	0.014	0.000
1:06:00 PM	0.1	0.005	0.000
1:07:00 PM	0.2	0.003	0.000
1:08:00 PM	0.2	0.003	0.000
1:09:00 PM	0.2	0.003	0.000
1:10:00 PM	0.1	0.005	0.000
1:11:00 PM	0.2	0.002	0.000
1:12:00 PM	0.2	0.014	0.000
1:13:00 PM	0.1	0.007	0.000
1:14:00 PM	0.1	0.003	0.000
1:15:00 PM	0.1	0.006	0.000
1:16:00 PM	0.2	0.002	0.000
1:17:00 PM	0.2	0.003	0.000
1:18:00 PM	0.2	0.005	0.000
1:19:00 PM	0.1	0.001	0.000
1:20:00 PM	0.2	0.003	0.000
1:21:00 PM	0.2	0.003	0.000
1:22:00 PM	0.0	0.005	0.000
1:23:00 PM	0.1	0.002	0.000
1:24:00 PM	0.0	0.004	0.000
1:25:00 PM	0.1	0.005	0.000
1:26:00 PM	0.1	0.002	0.000
1:27:00 PM	0.0	0.002	0.000
1:28:00 PM	0.0	0.002	0.000
1:29:00 PM	0.0	0.002	0.000
1:30:00 PM	0.1	0.003	0.000
1:31:00 PM	0.1	0.005	0.000
1:32:00 PM	0.0	0.003	0.000
1:33:00 PM	0.0	0.002	0.000
1:34:00 PM	0.0	0.002	0.000
1:35:00 PM	0.1	0.002	0.000
1:36:00 PM	0.0	0.002	0.000
1:37:00 PM	0.0	0.003	0.000
1:38:00 PM	0.0	0.002	0.000
1:39:00 PM	0.0	0.002	0.000
1:40:00 PM	0.0	0.002	0.000
1:41:00 PM	0.0	0.002	0.000
1:42:00 PM	0.0	0.003	0.000
1:43:00 PM	0.0	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:44:00 PM	0.0	0.002	0.000
1:45:00 PM	0.0	0.002	0.000
1:46:00 PM	0.0	0.002	0.000
1:47:00 PM	0.0	0.003	0.000
1:48:00 PM	0.0	0.004	0.000
1:49:00 PM	0.0	0.002	0.000
1:50:00 PM	0.0	0.002	0.000
1:51:00 PM	0.0	0.003	0.000
1:52:00 PM	0.0	0.003	0.000
1:53:00 PM	0.0	0.003	0.000
1:54:00 PM	0.0	0.002	0.000
1:55:00 PM	0.0	0.002	0.000
1:56:00 PM	0.0	0.002	0.000
1:57:00 PM	0.0	0.003	0.000
1:58:00 PM	0.0	0.003	0.000
1:59:00 PM	0.0	0.003	0.000
2:00:00 PM	0.0	0.003	0.000
2:01:00 PM	0.0	0.003	0.000
2:02:00 PM	0.0	0.003	0.000
2:03:00 PM	0.0	0.005	0.000
2:04:00 PM	0.0	0.002	0.000
2:05:00 PM	0.0	0.002	0.000
2:06:00 PM	0.0	0.004	0.000
2:07:00 PM	0.0	0.002	0.000
2:08:00 PM	0.0	0.003	0.000
2:09:00 PM	0.0	0.002	0.000
2:10:00 PM	0.0	0.006	0.000
2:11:00 PM	0.0	0.004	0.000
2:12:00 PM	0.0	0.004	0.000
2:13:00 PM	0.0	0.002	0.000
2:14:00 PM	0.0	0.003	0.000
2:15:00 PM	0.0	0.002	0.000
2:16:00 PM	0.0	0.003	0.000
2:17:00 PM	0.0	0.002	0.000
2:18:00 PM	0.0	0.003	0.000
2:19:00 PM	0.0	0.002	0.000
2:20:00 PM	0.0	0.004	0.000
2:21:00 PM	0.0	0.005	0.000
2:22:00 PM	0.0	0.004	0.000
2:23:00 PM	0.0	0.004	0.000
2:24:00 PM	0.0	0.017	0.000
2:25:00 PM	0.0	0.006	0.000
2:26:00 PM	0.0	0.009	0.000
2:27:00 PM	0.0	0.003	0.000
2:28:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0		0.000
9:17:00 AM	0.0	0.007	0.000
9:18:00 AM	0.0	0.005	0.000
9:20:00 AM	0.0	0.012	0.000
9:21:00 AM	0.0	0.012	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.006	0.000
9:24:00 AM	0.0	0.005	0.000
9:25:00 AM	0.0	0.005	0.000
9:26:00 AM	0.0	0.008	0.000
9:27:00 AM	0.0	0.004	0.000
9:28:00 AM	0.0	0.003	0.000
9:29:00 AM	0.0	0.004	0.000
9:30:00 AM	0.0	0.004	0.000
9:31:00 AM	0.0	0.004	0.000
9:32:00 AM	0.0	0.004	0.000
9:33:00 AM	0.0	0.005	0.000
9:34:00 AM	0.0	0.039	0.000
9:35:00 AM	0.0	0.017	0.000
9:36:00 AM	0.0	0.007	0.000
9:37:00 AM	0.0	0.010	0.000
9:38:00 AM	0.0	0.018	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.012	0.000
9:41:00 AM	0.0	0.009	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.0	0.010	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.0	0.007	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.006	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.006	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.011	0.000
9:56:00 AM	0.0	0.011	0.000
9:57:00 AM	0.0	0.013	0.000
9:58:00 AM	0.0	0.007	0.000
9:59:00 AM	0.0	0.006	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.008	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.007	0.000
10:06:00 AM	0.0	0.006	0.000
10:07:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:08:00 AM	0.0	0.008	0.000
10:09:00 AM	0.0	0.006	0.000
10:10:00 AM	0.0	0.006	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.008	0.000
10:13:00 AM	0.0	0.021	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.012	0.000
10:16:00 AM	0.0	0.008	0.000
10:17:00 AM	0.0	0.006	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.006	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.011	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.009	0.000
10:25:00 AM	0.0	0.010	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.017	0.000
10:29:00 AM	0.0	0.044	0.000
10:30:00 AM	0.0	0.021	0.000
10:31:00 AM	0.0	0.015	0.000
10:32:00 AM	0.0	0.025	0.000
10:33:00 AM	0.0	0.011	0.000
10:34:00 AM	0.0	0.015	0.000
10:35:00 AM	0.0	0.014	0.000
10:36:00 AM	0.0	0.047	0.000
10:37:00 AM	0.0	0.013	0.000
10:38:00 AM	0.0	0.013	0.000
10:39:00 AM	0.0	0.009	0.000
10:40:00 AM	0.0	0.019	0.000
10:41:00 AM	0.0	0.015	0.000
10:42:00 AM	0.0	0.022	0.000
10:43:00 AM	0.0	0.017	0.000
10:44:00 AM	0.0	0.014	0.000
10:45:00 AM	0.0	0.014	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.009	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.008	0.000
10:53:00 AM	0.0	0.016	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.012	0.000
10:56:00 AM	0.0	0.009	0.000
10:57:00 AM	0.0	0.016	0.000
10:58:00 AM	0.0	0.028	0.000
10:59:00 AM	0.0	0.016	0.000
11:00:00 AM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.018	0.000
11:03:00 AM	0.0	0.010	0.000
11:04:00 AM	0.0	0.015	0.000
11:05:00 AM	0.0	0.009	0.000
11:06:00 AM	0.0	0.014	0.000
11:07:00 AM	0.0	0.010	0.000
11:08:00 AM	0.0	0.014	0.000
11:09:00 AM	0.0	0.015	0.000
11:10:00 AM	0.0	0.009	0.000
11:11:00 AM	0.0	0.013	0.000
11:12:00 AM	0.0	0.009	0.000
11:13:00 AM	0.0	0.010	0.000
11:14:00 AM	0.0	0.012	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.020	0.000
11:17:00 AM	0.0	0.009	0.000
11:18:00 AM	0.0	0.013	0.000
11:19:00 AM	0.0	0.007	0.000
11:20:00 AM	0.0	0.009	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.007	0.000
11:23:00 AM	0.0	0.007	0.000
11:24:00 AM	0.0	0.005	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.006	0.000
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.007	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.010	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.006	0.000
11:37:00 AM	0.0	0.005	0.000
11:38:00 AM	0.0	0.005	0.000
11:39:00 AM	0.0	0.005	0.000
11:40:00 AM	0.0	0.006	0.000
11:41:00 AM	0.0	0.006	0.000
11:42:00 AM	0.0	0.010	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.010	0.000
11:45:00 AM	0.0	0.007	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.012	0.000
11:48:00 AM	0.0	0.012	0.000
11:49:00 AM	0.0	0.017	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.012	0.000
11:52:00 AM	0.0	0.012	0.000
11:53:00 AM	0.0	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.019	0.000
11:56:00 AM	0.0	0.007	0.000
11:57:00 AM	0.0	0.011	0.000
11:58:00 AM	0.0	0.008	0.000
11:59:00 AM	0.0	0.013	0.000
12:00:00 PM	0.0	0.010	0.000
12:01:00 PM	0.0	0.009	0.000
12:02:00 PM	0.0	0.007	0.000
12:03:00 PM	0.0	0.006	0.000
12:04:00 PM	0.0	0.006	0.000
12:05:00 PM	0.0	0.007	0.000
12:06:00 PM	0.0	0.006	0.000
12:07:00 PM	0.0	0.007	0.000
12:08:00 PM	0.0	0.005	0.000
12:09:00 PM	0.0	0.005	0.000
12:10:00 PM	0.0	0.006	0.000
12:11:00 PM	0.0	0.006	0.000
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.005	0.000
12:14:00 PM	0.0	0.005	0.000
12:15:00 PM	0.0	0.007	0.000
12:16:00 PM	0.0	0.006	0.000
12:17:00 PM	0.0	0.005	0.000
12:18:00 PM	0.0	0.006	0.000
12:19:00 PM	0.0	0.005	0.000
12:20:00 PM	0.0	0.009	0.000
12:21:00 PM	0.0	0.006	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.005	0.000
12:24:00 PM	0.0	0.005	0.000
12:25:00 PM	0.0	0.005	0.000
12:26:00 PM	0.0	0.006	0.000
12:27:00 PM	0.0	0.006	0.000
12:28:00 PM	0.0	0.004	0.000
12:29:00 PM	0.0	0.004	0.000
12:30:00 PM	0.0	0.004	0.000
12:31:00 PM	0.0	0.004	0.000
12:32:00 PM	0.0	0.004	0.000
12:33:00 PM	0.0	0.005	0.000
12:34:00 PM	0.0	0.004	0.000
12:35:00 PM	0.0	0.004	0.000
12:36:00 PM	0.0	0.004	0.000
12:37:00 PM	0.0	0.005	0.000
12:38:00 PM	0.0	0.005	0.000
12:39:00 PM	0.0	0.004	0.000
12:40:00 PM	0.0	0.003	0.000
12:41:00 PM	0.0	0.004	0.000
12:42:00 PM	0.0	0.023	0.000
12:43:00 PM	0.0	0.012	0.000
12:44:00 PM	0.0	0.026	0.000
12:45:00 PM	0.0	0.022	0.000
12:46:00 PM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:47:00 PM	0.0	0.009	0.000
12:48:00 PM	0.0	0.028	0.000
12:49:00 PM	0.0	0.009	0.000
12:50:00 PM	0.0	0.023	0.000
12:51:00 PM	0.0	0.009	0.000
12:52:00 PM	0.0	0.035	0.000
12:53:00 PM	0.0	0.060	0.000
12:54:00 PM	0.0	0.036	0.000
12:55:00 PM	0.0	0.019	0.000
12:56:00 PM	0.0	0.029	0.000
12:57:00 PM	0.0	0.022	0.000
12:58:00 PM	0.0	0.020	0.000
12:59:00 PM	0.0	0.018	0.000
1:00:00 PM	0.0	0.008	0.000
1:01:00 PM	0.0	0.006	0.000
1:02:00 PM	0.0	0.007	0.000
1:03:00 PM	0.0	0.006	0.000
1:04:00 PM	0.0	0.014	0.000
1:05:00 PM	0.0	0.008	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.006	0.000
1:08:00 PM	0.0	0.004	0.000
1:09:00 PM	0.0	0.007	0.000
1:10:00 PM	0.0	0.013	0.000
1:11:00 PM	0.0	0.010	0.000
1:12:00 PM	0.0	0.009	0.000
1:13:00 PM	0.0	0.018	0.000
1:14:00 PM	0.0	0.013	0.000
1:15:00 PM	0.0	0.066	0.000
1:16:00 PM	0.0	0.006	0.000
1:17:00 PM	0.0	0.008	0.000
1:18:00 PM	0.0	0.008	0.000
1:19:00 PM	0.0	0.005	0.000
1:20:00 PM	0.0	0.012	0.000
1:21:00 PM	0.0	0.007	0.000
1:22:00 PM	0.0	0.025	0.000
1:23:00 PM	0.0	0.015	0.000
1:24:00 PM	0.0	0.016	0.000
1:25:00 PM	0.0	0.009	0.000
1:26:00 PM	0.0	0.007	0.000
1:27:00 PM	0.0	0.005	0.000
1:28:00 PM	0.0	0.005	0.000
1:29:00 PM	0.0	0.005	0.000
1:30:00 PM	0.0	0.009	0.000
1:31:00 PM	0.0	0.033	0.000
1:32:00 PM	0.0	0.011	0.000
1:33:00 PM	0.0	0.008	0.000
1:34:00 PM	0.0	0.005	0.000
1:35:00 PM	0.0	0.036	0.000
1:36:00 PM	0.0	0.009	0.000
1:37:00 PM	0.0	0.008	0.000
1:38:00 PM	0.0	0.005	0.000
1:39:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:40:00 PM	0.0	0.005	0.000
1:41:00 PM	0.0	0.007	0.000
1:42:00 PM	0.0	0.005	0.000
1:43:00 PM	0.0	0.005	0.000
1:44:00 PM	0.0	0.006	0.000
1:45:00 PM	0.0	0.004	0.000
1:46:00 PM	0.0	0.005	0.000
1:47:00 PM	0.0	0.005	0.000
1:48:00 PM	0.0	0.013	0.000
1:49:00 PM	0.0	0.009	0.000
1:50:00 PM	0.0	0.006	0.000
1:51:00 PM	0.0	0.012	0.000
1:52:00 PM	0.0	0.010	0.000
1:53:00 PM	0.0	0.007	0.000
1:54:00 PM	0.0	0.006	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.004	0.000
1:57:00 PM	0.0	0.005	0.000
1:58:00 PM	0.0	0.006	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.0	0.006	0.000
2:01:00 PM	0.0	0.005	0.000
2:02:00 PM	0.0	0.005	0.000
2:03:00 PM	0.0	0.006	0.000
2:04:00 PM	0.0	0.004	0.000
2:05:00 PM	0.0	0.004	0.000
2:06:00 PM	0.0	0.021	0.000
2:07:00 PM	0.0	0.006	0.000
2:08:00 PM	0.0	0.004	0.000
2:09:00 PM	0.0	0.006	0.000
2:10:00 PM	0.0	0.010	0.000
2:11:00 PM	0.0	0.010	0.000
2:12:00 PM	0.0	0.007	0.000
2:13:00 PM	0.0	0.008	0.000
2:14:00 PM	0.0	0.005	0.000
2:15:00 PM	0.0	0.007	0.000
2:16:00 PM	0.0	0.014	0.000
2:17:00 PM	0.0	0.033	0.000
2:18:00 PM	0.0	0.024	0.000
2:19:00 PM	0.0	0.007	0.000
2:20:00 PM	0.0	0.013	0.000
2:21:00 PM	0.0	0.012	0.000
2:22:00 PM	0.0	0.016	0.000
2:23:00 PM	0.0	0.005	0.000
2:24:00 PM	0.0	0.011	0.000
2:25:00 PM	0.0	0.009	0.000
2:26:00 PM	0.0	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:10:00 AM	0.0		0.000
9:11:00 AM	0.0	0.105	0.000
9:12:00 AM	0.0	0.005	0.000
9:13:00 AM	0.0	0.005	0.000
9:14:00 AM	0.0	0.005	0.000
9:15:00 AM	0.0	0.006	0.000
9:16:00 AM	0.0	0.005	0.000
9:17:00 AM	0.0	0.005	0.000
9:18:00 AM	0.0	0.005	0.000
9:19:00 AM	0.0	0.005	0.000
9:20:00 AM	0.0	0.005	0.000
9:21:00 AM	0.0	0.004	0.000
9:22:00 AM	0.0	0.004	0.000
9:23:00 AM	0.0	0.004	0.000
9:24:00 AM	0.0	0.005	0.000
9:25:00 AM	0.0	0.005	0.000
9:26:00 AM	0.0	0.005	0.000
9:27:00 AM	0.0	0.005	0.000
9:28:00 AM	0.0	0.005	0.000
9:29:00 AM	0.0	0.004	0.000
9:30:00 AM	0.0	0.004	0.000
9:31:00 AM	0.0	0.004	0.000
9:32:00 AM	0.0	0.004	0.000
9:33:00 AM	0.0	0.005	0.000
9:34:00 AM	0.0	0.005	0.000
9:35:00 AM	0.0	0.005	0.000
9:36:00 AM	0.0	0.004	0.000
9:37:00 AM	0.0	0.005	0.000
9:38:00 AM	0.0	0.006	0.000
9:39:00 AM	0.0	0.017	0.000
9:40:00 AM	0.0	0.010	0.000
9:41:00 AM	0.0	0.009	0.000
9:42:00 AM	0.0	0.004	0.000
9:43:00 AM	0.0	0.004	0.000
9:44:00 AM	0.0	0.004	0.000
9:45:00 AM	0.0	0.005	0.000
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.004	0.000
9:48:00 AM	0.0	0.004	0.000
9:49:00 AM	0.0	0.004	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.004	0.000
9:53:00 AM	0.0	0.004	0.000
9:54:00 AM	0.0	0.004	0.000
9:55:00 AM	0.0	0.004	0.000
9:56:00 AM	0.1	0.005	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.005	0.000
9:59:00 AM	0.0	0.004	0.000
10:00:00 AM	0.0	0.004	0.000
10:01:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.004	0.000
10:04:00 AM	0.0	0.004	0.000
10:05:00 AM	0.1	0.004	0.000
10:06:00 AM	0.1	0.004	0.000
10:07:00 AM	0.1	0.005	0.000
10:08:00 AM	0.1	0.007	0.000
10:09:00 AM	0.1	0.004	0.000
10:10:00 AM	0.1	0.004	0.000
10:11:00 AM	0.1	0.004	0.000
10:12:00 AM	0.1	0.004	0.000
10:13:00 AM	0.1	0.005	0.000
10:14:00 AM	0.1	0.005	0.000
10:15:00 AM	0.1	0.005	0.000
10:16:00 AM	0.1	0.004	0.000
10:17:00 AM	0.1	0.005	0.000
10:18:00 AM	0.1	0.005	0.000
10:19:00 AM	0.1	0.004	0.000
10:20:00 AM	0.1	0.004	0.000
10:21:00 AM	0.1	0.004	0.000
10:22:00 AM	0.1	0.004	0.000
10:23:00 AM	0.1	0.004	0.000
10:24:00 AM	0.1	0.005	0.000
10:25:00 AM	0.1	0.005	0.000
10:26:00 AM	0.1	0.005	0.000
10:27:00 AM	0.1	0.005	0.000
10:28:00 AM	0.1	0.005	0.000
10:29:00 AM	0.1	0.004	0.000
10:30:00 AM	0.1	0.004	0.000
10:31:00 AM	0.1	0.005	0.000
10:32:00 AM	0.1	0.004	0.000
10:33:00 AM	0.1	0.004	0.000
10:34:00 AM	0.1	0.004	0.000
10:35:00 AM	0.1	0.003	0.000
10:36:00 AM	0.1	0.003	0.000
10:37:00 AM	0.1	0.004	0.000
10:38:00 AM	0.1	0.004	0.000
10:39:00 AM	0.1	0.004	0.000
10:40:00 AM	0.1	0.004	0.000
10:41:00 AM	0.1	0.005	0.000
10:42:00 AM	0.1	0.006	0.000
10:43:00 AM	0.1	0.005	0.000
10:44:00 AM	0.1	0.005	0.000
10:45:00 AM	0.1	0.005	0.000
10:46:00 AM	0.1	0.004	0.000
10:47:00 AM	0.1	0.006	0.000
10:48:00 AM	0.1	0.005	0.000
10:49:00 AM	0.1	0.005	0.000
10:50:00 AM	0.1	0.004	0.000
10:51:00 AM	0.1	0.004	0.000
10:52:00 AM	0.1	0.004	0.000
10:53:00 AM	0.1	0.004	0.000
10:54:00 AM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:55:00 AM	0.1	0.005	0.000
10:56:00 AM	0.1	0.004	0.000
10:57:00 AM	0.1	0.004	0.000
10:58:00 AM	0.1	0.004	0.000
10:59:00 AM	0.1	0.004	0.000
11:00:00 AM	0.1	0.004	0.000
11:01:00 AM	0.1	0.004	0.000
11:02:00 AM	0.1	0.004	0.000
11:03:00 AM	0.1	0.005	0.000
11:04:00 AM	0.2	0.004	0.000
11:05:00 AM	0.2	0.006	0.000
11:06:00 AM	0.1	0.007	0.000
11:07:00 AM	0.1	0.004	0.000
11:08:00 AM	0.1	0.005	0.000
11:09:00 AM	0.1	0.005	0.000
11:10:00 AM	0.1	0.004	0.000
11:11:00 AM	0.1	0.004	0.000
11:12:00 AM	0.2	0.004	0.000
11:13:00 AM	0.2	0.005	0.000
11:14:00 AM	0.2	0.005	0.000
11:15:00 AM	0.1	0.006	0.000
11:16:00 AM	0.1	0.007	0.000
11:17:00 AM	0.1	0.004	0.000
11:18:00 AM	0.1	0.004	0.000
11:19:00 AM	0.2	0.004	0.000
11:20:00 AM	0.1	0.005	0.000
11:21:00 AM	0.1	0.005	0.000
11:22:00 AM	0.1	0.004	0.000
11:23:00 AM	0.1	0.004	0.000
11:24:00 AM	0.2	0.005	0.000
11:25:00 AM	0.1	0.005	0.000
11:26:00 AM	0.1	0.005	0.000
11:27:00 AM	0.2	0.006	0.000
11:28:00 AM	0.1	0.007	0.000
11:29:00 AM	0.1	0.005	0.000
11:30:00 AM	0.1	0.005	0.000
11:31:00 AM	0.1	0.004	0.000
11:32:00 AM	0.1	0.004	0.000
11:33:00 AM	0.2	0.005	0.000
11:34:00 AM	0.2	0.005	0.000
11:35:00 AM	0.2	0.005	0.000
11:36:00 AM	0.1	0.003	0.000
11:37:00 AM	0.2	0.004	0.000
11:38:00 AM	0.2	0.005	0.000
11:39:00 AM	0.2	0.004	0.000
11:40:00 AM	0.2	0.005	0.000
11:41:00 AM	0.2	0.007	0.000
11:42:00 AM	0.2	0.004	0.000
11:43:00 AM	0.2	0.004	0.000
11:44:00 AM	0.2	0.003	0.000
11:45:00 AM	0.2	0.003	0.000
11:46:00 AM	0.2	0.005	0.000
11:47:00 AM	0.2	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:48:00 AM	0.2	0.004	0.000
11:49:00 AM	0.2	0.004	0.000
11:50:00 AM	0.2	0.005	0.000
11:51:00 AM	0.2	0.007	0.000
11:52:00 AM	0.1	0.005	0.000
11:53:00 AM	0.2	0.004	0.000
11:54:00 AM	0.1	0.004	0.000
11:55:00 AM	0.2	0.003	0.000
11:56:00 AM	0.2	0.003	0.000
11:57:00 AM	0.2	0.004	0.000
11:58:00 AM	0.2	0.004	0.000
11:59:00 AM	0.2	0.004	0.000
12:00:00 PM	0.2	0.004	0.000
12:01:00 PM	0.2	0.004	0.000
12:02:00 PM	0.2	0.003	0.000
12:03:00 PM	0.2	0.004	0.000
12:04:00 PM	0.2	0.004	0.000
12:05:00 PM	0.2	0.004	0.000
12:06:00 PM	0.2	0.004	0.000
12:07:00 PM	0.2	0.004	0.000
12:08:00 PM	0.2	0.003	0.000
12:09:00 PM	0.2	0.004	0.000
12:10:00 PM	0.2	0.005	0.000
12:11:00 PM	0.2	0.004	0.000
12:12:00 PM	0.2	0.004	0.000
12:13:00 PM	0.2	0.004	0.000
12:14:00 PM	0.2	0.003	0.000
12:15:00 PM	0.2	0.005	0.000
12:16:00 PM	0.2	0.004	0.000
12:17:00 PM	0.2	0.004	0.000
12:18:00 PM	0.2	0.004	0.000
12:19:00 PM	0.2	0.004	0.000
12:20:00 PM	0.2	0.005	0.000
12:21:00 PM	0.2	0.005	0.000
12:22:00 PM	0.2	0.004	0.000
12:23:00 PM	0.2	0.004	0.000
12:24:00 PM	0.2	0.006	0.000
12:25:00 PM	0.2	0.005	0.000
12:26:00 PM	0.2	0.005	0.000
12:27:00 PM	0.2	0.004	0.000
12:28:00 PM	0.2	0.003	0.000
12:29:00 PM	0.2	0.004	0.000
12:30:00 PM	0.2	0.003	0.000
12:31:00 PM	0.2	0.003	0.000
12:32:00 PM	0.2	0.003	0.000
12:33:00 PM	0.2	0.004	0.000
12:34:00 PM	0.2	0.003	0.000
12:35:00 PM	0.2	0.003	0.000
12:36:00 PM	0.2	0.003	0.000
12:37:00 PM	0.2	0.003	0.000
12:38:00 PM	0.2	0.004	0.000
12:39:00 PM	0.2	0.002	0.000
12:40:00 PM	0.2	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:41:00 PM	0.2	0.003	0.000
12:42:00 PM	0.2	0.004	0.000
12:43:00 PM	0.2	0.008	0.000
12:44:00 PM	0.2	0.012	0.000
12:45:00 PM	0.2	0.003	0.000
12:46:00 PM	0.2	0.004	0.000
12:47:00 PM	0.2	0.004	0.000
12:48:00 PM	0.2	0.003	0.000
12:49:00 PM	0.2	0.002	0.000
12:50:00 PM	0.2	0.003	0.000
12:51:00 PM	0.2	0.004	0.000
12:52:00 PM	0.2	0.004	0.000
12:53:00 PM	0.2	0.005	0.000
12:54:00 PM	0.2	0.004	0.000
12:55:00 PM	0.2	0.005	0.000
12:56:00 PM	0.2	0.039	0.000
12:57:00 PM	0.2	0.005	0.000
12:58:00 PM	0.2	0.004	0.000
12:59:00 PM	0.2	0.004	0.000
1:00:00 PM	0.2	0.004	0.000
1:01:00 PM	0.2	0.004	0.000
1:02:00 PM	0.2	0.004	0.000
1:03:00 PM	0.2	0.004	0.000
1:04:00 PM	0.2	0.007	0.000
1:05:00 PM	0.2	0.005	0.000
1:06:00 PM	0.2	0.004	0.000
1:07:00 PM	0.2	0.004	0.000
1:08:00 PM	0.2	0.004	0.000
1:09:00 PM	0.2	0.003	0.000
1:10:00 PM	0.2	0.004	0.000
1:11:00 PM	0.2	0.003	0.000
1:12:00 PM	0.2	0.004	0.000
1:13:00 PM	0.2	0.004	0.000
1:14:00 PM	0.2	0.004	0.000
1:15:00 PM	0.2	0.003	0.000
1:16:00 PM	0.2	0.004	0.000
1:17:00 PM	0.2	0.003	0.000
1:18:00 PM	0.2	0.005	0.000
1:19:00 PM	0.2	0.004	0.000
1:20:00 PM	0.2	0.005	0.000
1:21:00 PM	0.2	0.005	0.000
1:22:00 PM	0.2	0.006	0.000
1:23:00 PM	0.2	0.006	0.000
1:24:00 PM	0.2	0.007	0.000
1:25:00 PM	0.2	0.005	0.000
1:26:00 PM	0.2	0.004	0.000
1:27:00 PM	0.2	0.004	0.000
1:28:00 PM	0.2	0.003	0.000
1:29:00 PM	0.2	0.004	0.000
1:30:00 PM	0.2	0.006	0.000
1:31:00 PM	0.2	0.005	0.000
1:32:00 PM	0.2	0.006	0.000
1:33:00 PM	0.2	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:34:00 PM	0.2	0.003	0.000
1:35:00 PM	0.2	0.004	0.000
1:36:00 PM	0.2	0.008	0.000
1:37:00 PM	0.2	0.009	0.000
1:38:00 PM	0.2	0.004	0.000
1:39:00 PM	0.2	0.004	0.000
1:40:00 PM	0.2	0.007	0.000
1:41:00 PM	0.2	0.006	0.000
1:42:00 PM	0.2	0.003	0.000
1:43:00 PM	0.2	0.003	0.000
1:44:00 PM	0.2	0.003	0.000
1:45:00 PM	0.2	0.003	0.000
1:46:00 PM	0.2	0.004	0.000
1:47:00 PM	0.2	0.005	0.000
1:48:00 PM	0.2	0.011	0.000
1:49:00 PM	0.2	0.004	0.000
1:50:00 PM	0.2	0.004	0.000
1:51:00 PM	0.2	0.004	0.000
1:52:00 PM	0.2	0.005	0.000
1:53:00 PM	0.2	0.004	0.000
1:54:00 PM	0.2	0.003	0.000
1:55:00 PM	0.2	0.005	0.000
1:56:00 PM	0.2	0.003	0.000
1:57:00 PM	0.2	0.004	0.000
1:58:00 PM	0.2	0.004	0.000
1:59:00 PM	0.2	0.004	0.000
2:00:00 PM	0.2	0.004	0.000
2:01:00 PM	0.2	0.005	0.000
2:02:00 PM	0.2	0.004	0.000
2:03:00 PM	0.2	0.004	0.000
2:04:00 PM	0.2	0.003	0.000
2:05:00 PM	0.2	0.004	0.000
2:06:00 PM	0.2	0.007	0.000
2:07:00 PM	0.2	0.003	0.000
2:08:00 PM	0.2	0.004	0.000
2:09:00 PM	0.2	0.003	0.000
2:10:00 PM	0.2	0.010	0.000
2:11:00 PM	0.2	0.006	0.000
2:12:00 PM	0.2	0.004	0.000
2:13:00 PM	0.2	0.008	0.000
2:14:00 PM	0.2	0.006	0.000
2:15:00 PM	0.2	0.005	0.000
2:16:00 PM	0.2	0.003	0.000
2:17:00 PM	0.2	0.003	0.000
2:18:00 PM	0.2	0.006	0.000
2:19:00 PM	0.2	0.005	0.000
2:20:00 PM	0.2	0.003	0.000
2:21:00 PM	0.2	0.003	0.000
2:22:00 PM	0.2	0.004	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 12 mph	Date:	3/8/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco continues to excavating within the dry well structure. Aarco placing all excavated soils onto the stockpile for disposal. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor no field screening results noted above background readings of 0.0 PPM and 0.000 mg/m3. Preferred collected endpoint samples CM-DW-EP-01 B(14') and CM-EP-07 B(10'). Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.012	0.000	0.1	0.020	0.000
Down Wind	0.1	0.014	0.000	0.3	0.042	0.000
Work Zone	0.0	0.007	0.000	0.0	0.013	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue to excavate within area #7/4.



View of the downwind camp monitoring station.



Aarco excavating the drywell to a final depth of 14 feet bgs.

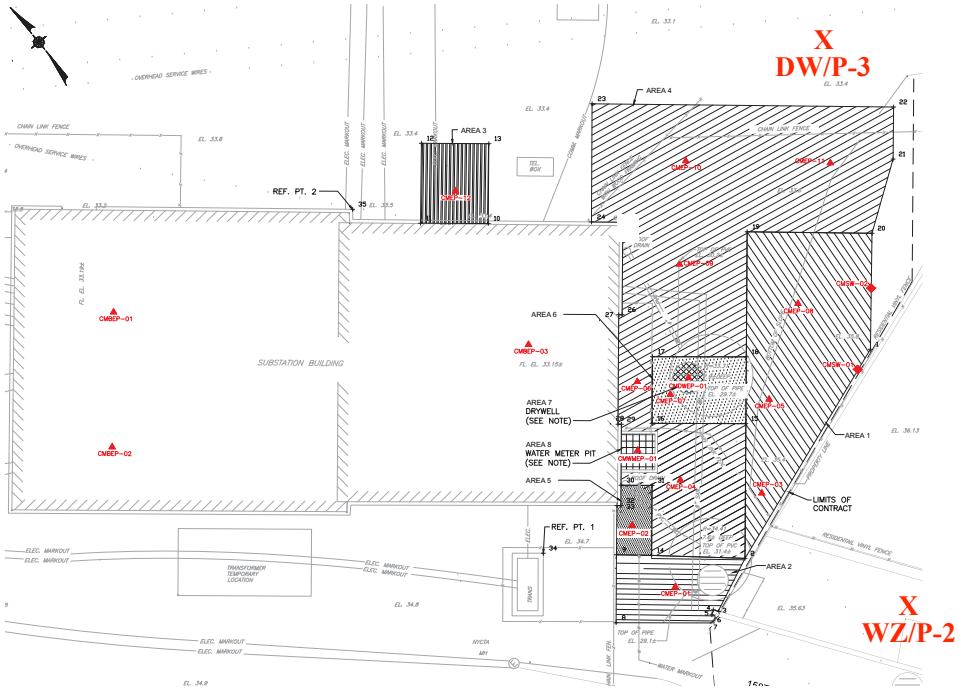


Preferred screening all excavated soils for VOCs and mercury.



Preferred collecting endpoint sample CM-EP-07 B(10').

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:09:00 AM	0.0		0.000
9:10:00 AM	0.0		0.000
9:11:00 AM	0.0		0.000
9:12:00 AM	0.0		0.000
9:13:00 AM	0.0	0.064	0.000
9:14:00 AM	0.0	0.020	0.000
9:15:00 AM	0.0	0.016	0.000
9:16:00 AM	0.0	0.015	0.000
9:17:00 AM	0.0	0.012	0.000
9:18:00 AM	0.0	0.010	0.000
9:19:00 AM	0.0	0.010	0.000
9:20:00 AM	0.0	0.011	0.000
9:21:00 AM	0.0	0.011	0.000
9:22:00 AM	0.0	0.011	0.000
9:23:00 AM	0.0	0.012	0.000
9:24:00 AM	0.0	0.012	0.000
9:25:00 AM	0.0	0.012	0.000
9:26:00 AM	0.0	0.012	0.000
9:27:00 AM	0.0	0.030	0.000
9:28:00 AM	0.0	0.016	0.000
9:29:00 AM	0.0	0.024	0.000
9:30:00 AM	0.0	0.011	0.000
9:31:00 AM	0.0	0.010	0.000
9:32:00 AM	0.0	0.011	0.000
9:33:00 AM	0.0	0.011	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.0	0.012	0.000
9:36:00 AM	0.0	0.016	0.000
9:37:00 AM	0.0	0.011	0.000
9:38:00 AM	0.0	0.013	0.000
9:39:00 AM	0.0	0.015	0.000
9:40:00 AM	0.0	0.011	0.000
9:41:00 AM	0.0	0.012	0.000
9:42:00 AM	0.0	0.011	0.000
9:43:00 AM	0.0	0.011	0.000
9:44:00 AM	0.0	0.011	0.000
9:45:00 AM	0.0	0.011	0.000
9:46:00 AM	0.0	0.011	0.000
9:47:00 AM	0.0	0.011	0.000
9:48:00 AM	0.0	0.012	0.000
9:49:00 AM	0.0	0.013	0.000
9:50:00 AM	0.0	0.013	0.000
9:51:00 AM	0.0	0.012	0.000
9:52:00 AM	0.0	0.012	0.000
9:53:00 AM	0.0	0.015	0.000
9:54:00 AM	0.0	0.013	0.000
9:55:00 AM	0.0	0.012	0.000
9:56:00 AM	0.0	0.011	0.000
9:57:00 AM	0.0	0.012	0.000
9:58:00 AM	0.0	0.016	0.000
9:59:00 AM	0.0	0.016	0.000
10:00:00 AM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:01:00 AM	0.0	0.011	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.0	0.012	0.000
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.014	0.000
10:06:00 AM	0.0	0.013	0.000
10:07:00 AM	0.0	0.024	0.000
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.011	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.011	0.000
10:13:00 AM	0.0	0.014	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.011	0.000
10:16:00 AM	0.0	0.012	0.000
10:17:00 AM	0.0	0.012	0.000
10:18:00 AM	0.0	0.012	0.000
10:19:00 AM	0.0	0.012	0.000
10:20:00 AM	0.0	0.012	0.000
10:21:00 AM	0.0	0.012	0.000
10:22:00 AM	0.0	0.012	0.000
10:23:00 AM	0.0	0.012	0.000
10:24:00 AM	0.0	0.013	0.000
10:25:00 AM	0.0	0.013	0.000
10:26:00 AM	0.0	0.012	0.000
10:27:00 AM	0.0	0.012	0.000
10:28:00 AM	0.0	0.012	0.000
10:29:00 AM	0.0	0.012	0.000
10:30:00 AM	0.0	0.012	0.000
10:31:00 AM	0.0	0.011	0.000
10:32:00 AM	0.0	0.012	0.000
10:33:00 AM	0.0	0.011	0.000
10:34:00 AM	0.0	0.011	0.000
10:35:00 AM	0.0	0.011	0.000
10:36:00 AM	0.0	0.011	0.000
10:37:00 AM	0.0	0.011	0.000
10:38:00 AM	0.0	0.011	0.000
10:39:00 AM	0.0	0.010	0.000
10:40:00 AM	0.0	0.010	0.000
10:41:00 AM	0.0	0.010	0.000
10:42:00 AM	0.0	0.012	0.000
10:43:00 AM	0.0	0.010	0.000
10:44:00 AM	0.0	0.010	0.000
10:45:00 AM	0.0	0.010	0.000
10:46:00 AM	0.0	0.010	0.000
10:47:00 AM	0.0	0.010	0.000
10:48:00 AM	0.0	0.010	0.000
10:49:00 AM	0.0	0.014	0.000
10:50:00 AM	0.0	0.011	0.000
10:51:00 AM	0.0	0.019	0.000
10:52:00 AM	0.0	0.013	0.000
10:53:00 AM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:54:00 AM	0.0	0.010	0.000
10:55:00 AM	0.0	0.014	0.000
10:56:00 AM	0.0	0.015	0.000
10:57:00 AM	0.0	0.011	0.000
10:58:00 AM	0.0	0.011	0.000
10:59:00 AM	0.0	0.024	0.000
11:00:00 AM	0.0	0.012	0.000
11:01:00 AM	0.0	0.012	0.000
11:02:00 AM	0.0	0.011	0.000
11:03:00 AM	0.0	0.011	0.000
11:04:00 AM	0.0	0.011	0.000
11:05:00 AM	0.0	0.011	0.000
11:06:00 AM	0.0	0.011	0.000
11:07:00 AM	0.0	0.010	0.000
11:08:00 AM	0.0	0.011	0.000
11:09:00 AM	0.0	0.011	0.000
11:10:00 AM	0.0	0.011	0.000
11:11:00 AM	0.0	0.011	0.000
11:12:00 AM	0.0	0.011	0.000
11:13:00 AM	0.0	0.011	0.000
11:14:00 AM	0.0	0.012	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.018	0.000
11:17:00 AM	0.0	0.035	0.000
11:18:00 AM	0.0	0.018	0.000
11:19:00 AM	0.0	0.012	0.000
11:20:00 AM	0.0	0.012	0.000
11:21:00 AM	0.0	0.012	0.000
11:22:00 AM	0.0	0.012	0.000
11:23:00 AM	0.0	0.012	0.000
11:24:00 AM	0.0	0.013	0.000
11:25:00 AM	0.3	0.012	0.000
11:26:00 AM	0.0	0.043	0.000
11:27:00 AM	0.0	0.013	0.000
11:28:00 AM	0.0	0.015	0.000
11:29:00 AM	0.0	0.012	0.000
11:30:00 AM	0.0	0.013	0.000
11:31:00 AM	0.0	0.011	0.000
11:32:00 AM	0.0	0.012	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.012	0.000
11:35:00 AM	0.0	0.011	0.000
11:36:00 AM	0.0	0.012	0.000
11:37:00 AM	0.0	0.013	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.043	0.000
11:40:00 AM	0.0	0.055	0.000
11:41:00 AM	0.0	0.049	0.000
11:42:00 AM	0.0	0.014	0.000
11:43:00 AM	0.0	0.013	0.000
11:44:00 AM	0.0	0.013	0.000
11:45:00 AM	0.0	0.013	0.000
11:46:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:47:00 AM	0.0	0.012	0.000
11:48:00 AM	0.0	0.013	0.000
11:49:00 AM	0.0	0.013	0.000
11:50:00 AM	0.0	0.012	0.000
11:51:00 AM	0.0	0.012	0.000
11:52:00 AM	0.0	0.011	0.000
11:53:00 AM	0.0	0.011	0.000
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.011	0.000
11:56:00 AM	0.0	0.012	0.000
11:57:00 AM	0.0	0.012	0.000
11:58:00 AM	0.0	0.012	0.000
11:59:00 AM	0.0	0.012	0.000
12:00:00 PM	0.0	0.013	0.000
12:01:00 PM	0.0	0.012	0.000
12:02:00 PM	0.0	0.012	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.012	0.000
12:05:00 PM	0.0	0.012	0.000
12:06:00 PM	0.0	0.011	0.000
12:07:00 PM	0.0	0.011	0.000
12:08:00 PM	0.0	0.011	0.000
12:09:00 PM	0.0	0.011	0.000
12:10:00 PM	0.0	0.011	0.000
12:11:00 PM	0.0	0.011	0.000
12:12:00 PM	0.0	0.011	0.000
12:13:00 PM	0.0	0.011	0.000
12:14:00 PM	0.0	0.011	0.000
12:15:00 PM	0.1	0.011	0.000
12:16:00 PM	0.1	0.011	0.000
12:17:00 PM	0.0	0.012	0.000
12:18:00 PM	0.1	0.011	0.000
12:19:00 PM	0.1	0.011	0.000
12:20:00 PM	0.1	0.010	0.000
12:21:00 PM	0.0	0.010	0.000
12:22:00 PM	0.1	0.011	0.000
12:23:00 PM	0.1	0.011	0.000
12:24:00 PM	0.1	0.011	0.000
12:25:00 PM	0.2	0.011	0.000
12:26:00 PM	0.1	0.011	0.000
12:27:00 PM	0.1	0.011	0.000
12:28:00 PM	0.1	0.010	0.000
12:29:00 PM	0.0	0.010	0.000
12:30:00 PM	0.1	0.010	0.000
12:31:00 PM	0.2	0.010	0.000
12:32:00 PM	0.4	0.010	0.000
12:33:00 PM	0.2	0.010	0.000
12:34:00 PM	0.1	0.010	0.000
12:35:00 PM	0.1	0.010	0.000
12:36:00 PM	0.0	0.011	0.000
12:37:00 PM	0.1	0.011	0.000
12:38:00 PM	0.1	0.010	0.000
12:39:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:40:00 PM	0.1	0.010	0.000
12:41:00 PM	0.1	0.010	0.000
12:42:00 PM	0.1	0.010	0.000
12:43:00 PM	0.1	0.010	0.000
12:44:00 PM	0.1	0.010	0.000
12:45:00 PM	0.1	0.010	0.000
12:46:00 PM	0.1	0.009	0.000
12:47:00 PM	0.1	0.009	0.000
12:48:00 PM	0.1	0.011	0.000
12:49:00 PM	0.1	0.015	0.000
12:50:00 PM	0.1	0.018	0.000
12:51:00 PM	0.1	0.010	0.000
12:52:00 PM	0.1	0.013	0.000
12:53:00 PM	0.1	0.009	0.000
12:54:00 PM	0.1	0.015	0.000
12:55:00 PM	0.1	0.009	0.000
12:56:00 PM	0.2	0.022	0.000
12:57:00 PM	0.1	0.009	0.000
12:58:00 PM	0.1	0.014	0.000
12:59:00 PM	0.1	0.010	0.000
1:00:00 PM	0.0	0.016	0.000
1:01:00 PM	0.0	0.009	0.000
1:02:00 PM	0.1	0.008	0.000
1:03:00 PM	0.0	0.008	0.000
1:04:00 PM	0.0	0.008	0.000
1:05:00 PM	0.0	0.008	0.000
1:06:00 PM	0.0	0.009	0.000
1:07:00 PM	0.0	0.010	0.000
1:08:00 PM	0.1	0.008	0.000
1:09:00 PM	0.0	0.008	0.000
1:10:00 PM	0.0	0.008	0.000
1:11:00 PM	0.1	0.009	0.000
1:12:00 PM	0.0	0.009	0.000
1:13:00 PM	0.0	0.008	0.000
1:14:00 PM	0.0	0.008	0.000
1:15:00 PM	0.0	0.027	0.000
1:16:00 PM	0.1	0.014	0.000
1:17:00 PM	0.0	0.009	0.000
1:18:00 PM	0.0	0.008	0.000
1:19:00 PM	0.0	0.008	0.000
1:20:00 PM	0.0	0.008	0.000
1:21:00 PM	0.0	0.008	0.000
1:22:00 PM	0.0	0.008	0.000
1:23:00 PM	0.0	0.008	0.000
1:24:00 PM	0.0	0.008	0.000
1:25:00 PM	0.0	0.010	0.000
1:26:00 PM	0.0	0.008	0.000
1:27:00 PM	0.0	0.008	0.000
1:28:00 PM	0.0	0.008	0.000
1:29:00 PM	0.0	0.008	0.000
1:30:00 PM	0.0	0.008	0.000
1:31:00 PM	0.0	0.011	0.000
1:32:00 PM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:33:00 PM	0.0	0.008	0.000
1:34:00 PM	0.0	0.008	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.0	0.008	0.000
1:37:00 PM	0.0	0.008	0.000
1:38:00 PM	0.0	0.008	0.000
1:39:00 PM	0.0	0.009	0.000
1:40:00 PM	0.0	0.009	0.000
1:41:00 PM	0.0	0.008	0.000
1:42:00 PM	0.0	0.008	0.000
1:43:00 PM	0.0	0.008	0.000
1:44:00 PM	0.0	0.007	0.000
1:45:00 PM	0.0	0.008	0.000
1:46:00 PM	0.0	0.007	0.000
1:47:00 PM	0.0	0.008	0.000
1:48:00 PM	0.0	0.010	0.000
1:49:00 PM	0.0	0.009	0.000
1:50:00 PM	0.0	0.009	0.000
1:51:00 PM	0.0	0.016	0.000
1:52:00 PM	0.0	0.011	0.000
1:53:00 PM	0.0	0.010	0.000
1:54:00 PM	0.0	0.009	0.000
1:55:00 PM	0.0	0.008	0.000
1:56:00 PM	0.0	0.009	0.000
1:57:00 PM	0.0	0.009	0.000
1:58:00 PM	0.0	0.009	0.000
1:59:00 PM	0.0	0.009	0.000
2:00:00 PM	0.0	0.009	0.000
2:01:00 PM	0.0	0.009	0.000
2:02:00 PM	0.0	0.009	0.000
2:03:00 PM	0.0	0.009	0.000
2:04:00 PM	0.0	0.009	0.000
2:05:00 PM	0.0	0.009	0.000
2:06:00 PM	0.1	0.012	0.000
2:07:00 PM	0.0	0.012	0.000
2:08:00 PM	0.0	0.011	0.000
2:09:00 PM	0.0	0.010	0.000
2:10:00 PM	0.0	0.010	0.000
2:11:00 PM	0.0	0.010	0.000
2:12:00 PM	0.0	0.010	0.000
2:13:00 PM	0.0	0.010	0.000
2:14:00 PM	0.0	0.010	0.000
2:15:00 PM	0.0	0.010	0.000
2:16:00 PM	0.0	0.010	0.000
2:17:00 PM	0.0	0.011	0.000
2:18:00 PM	0.0	0.011	0.000
2:19:00 PM	0.0	0.010	0.000
2:20:00 PM	0.0	0.011	0.000
2:21:00 PM	0.0	0.011	0.000
2:22:00 PM	0.0	0.012	0.000
2:23:00 PM	0.0	0.012	0.000
2:24:00 PM	0.0	0.011	0.000
2:25:00 PM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:26:00 PM	0.0	0.012	0.000
2:27:00 PM	0.0	0.012	0.000
2:28:00 PM	0.0	0.011	0.000
2:29:00 PM	0.0	0.011	0.000
2:30:00 PM	0.0	0.011	0.000
2:31:00 PM	0.0	0.011	0.000
2:32:00 PM	0.0	0.011	0.000
2:33:00 PM	0.0	0.011	0.000
2:34:00 PM	0.0	0.011	0.000
2:35:00 PM	0.0	0.012	0.000
2:36:00 PM	0.1	0.027	0.000
2:37:00 PM	0.0	0.031	0.000
2:38:00 PM	0.0	0.013	0.000
2:39:00 PM	0.0	0.012	0.000
2:40:00 PM	0.0	0.012	0.000
2:41:00 PM	0.0	0.012	0.000
2:42:00 PM	0.0	0.012	0.000
2:43:00 PM	0.0	0.011	0.000
2:44:00 PM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:05:00 AM	0.0	0.008	0.000
9:06:00 AM	0.0	0.121	0.000
9:07:00 AM	0.0	0.013	0.000
9:08:00 AM	0.0	0.012	0.000
9:09:00 AM	0.0	0.017	0.000
9:10:00 AM	0.0	0.022	0.000
9:11:00 AM	0.0	0.013	0.000
9:12:00 AM	0.0	0.013	0.000
9:13:00 AM	0.0	0.015	0.000
9:14:00 AM	0.0	0.012	0.000
9:15:00 AM	0.0	0.012	0.000
9:16:00 AM	0.0	0.011	0.000
9:17:00 AM	0.0	0.010	0.000
9:18:00 AM	0.0	0.009	0.000
9:19:00 AM	0.0	0.009	0.000
9:20:00 AM	0.0	0.009	0.000
9:21:00 AM	0.0	0.010	0.000
9:22:00 AM	0.0	0.011	0.000
9:23:00 AM	0.0	0.010	0.000
9:24:00 AM	0.0	0.011	0.000
9:25:00 AM	0.0	0.012	0.000
9:26:00 AM	0.0	0.011	0.000
9:27:00 AM	0.0	0.013	0.000
9:28:00 AM	0.0	0.013	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.010	0.000
9:31:00 AM	0.0	0.011	0.000
9:32:00 AM	0.0	0.010	0.000
9:33:00 AM	0.0	0.010	0.000
9:34:00 AM	0.0	0.021	0.000
9:35:00 AM	0.0	0.011	0.000
9:36:00 AM	0.0	0.017	0.000
9:37:00 AM	0.0	0.011	0.000
9:38:00 AM	0.0	0.011	0.000
9:39:00 AM	0.0	0.019	0.000
9:40:00 AM	0.0	0.010	0.000
9:41:00 AM	0.0	0.016	0.000
9:42:00 AM	0.0	0.010	0.000
9:43:00 AM	0.0	0.009	0.000
9:44:00 AM	0.0	0.009	0.000
9:45:00 AM	0.0	0.009	0.000
9:46:00 AM	0.0	0.009	0.000
9:47:00 AM	0.0	0.010	0.000
9:48:00 AM	0.0	0.011	0.000
9:49:00 AM	0.0	0.010	0.000
9:50:00 AM	0.0	0.012	0.000
9:51:00 AM	0.0	0.011	0.000
9:52:00 AM	0.0	0.010	0.000
9:53:00 AM	0.0	0.011	0.000
9:54:00 AM	0.0	0.011	0.000
9:55:00 AM	0.0	0.009	0.000
9:56:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.009	0.000
9:59:00 AM	0.0	0.011	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.009	0.000
10:02:00 AM	0.0	0.013	0.000
10:03:00 AM	0.0	0.010	0.000
10:04:00 AM	0.0	0.010	0.000
10:05:00 AM	0.0	0.016	0.000
10:06:00 AM	0.0	0.011	0.000
10:07:00 AM	0.0	0.018	0.000
10:08:00 AM	0.0	0.014	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.009	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.009	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.008	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.008	0.000
10:20:00 AM	0.0	0.010	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.010	0.000
10:25:00 AM	0.0	0.009	0.000
10:26:00 AM	0.0	0.009	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.013	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.018	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.012	0.000
10:45:00 AM	0.0	0.010	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:50:00 AM	0.0	0.011	0.000
10:51:00 AM	0.0	0.012	0.000
10:52:00 AM	0.0	0.010	0.000
10:53:00 AM	0.0	0.022	0.000
10:54:00 AM	0.0	0.006	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.016	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.017	0.000
11:00:00 AM	0.0	0.009	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.006	0.000
11:08:00 AM	0.0	0.006	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.014	0.000
11:11:00 AM	0.0	0.007	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.0	0.014	0.000
11:14:00 AM	0.0	0.007	0.000
11:15:00 AM	0.0	0.013	0.000
11:16:00 AM	0.0	0.014	0.000
11:17:00 AM	0.0	0.013	0.000
11:18:00 AM	0.0	0.011	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.007	0.000
11:22:00 AM	0.0	0.007	0.000
11:23:00 AM	0.0	0.007	0.000
11:24:00 AM	0.0	0.007	0.000
11:25:00 AM	0.0	0.007	0.000
11:26:00 AM	0.0	0.007	0.000
11:27:00 AM	0.0	0.007	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.010	0.000
11:30:00 AM	0.0	0.007	0.000
11:31:00 AM	0.0	0.006	0.000
11:32:00 AM	0.0	0.006	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.0	0.006	0.000
11:35:00 AM	0.0	0.005	0.000
11:36:00 AM	0.0	0.005	0.000
11:37:00 AM	0.0	0.006	0.000
11:38:00 AM	0.0	0.006	0.000
11:39:00 AM	0.0	0.040	0.000
11:40:00 AM	0.0	0.044	0.000
11:41:00 AM	0.0	0.031	0.000
11:42:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.006	0.000
11:45:00 AM	0.0	0.006	0.000
11:46:00 AM	0.0	0.006	0.000
11:47:00 AM	0.0	0.006	0.000
11:48:00 AM	0.0	0.006	0.000
11:49:00 AM	0.0	0.006	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.005	0.000
11:52:00 AM	0.0	0.007	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.005	0.000
11:55:00 AM	0.0	0.006	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.005	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.005	0.000
12:00:00 PM	0.0	0.005	0.000
12:01:00 PM	0.0	0.005	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.004	0.000
12:04:00 PM	0.0	0.004	0.000
12:05:00 PM	0.0	0.004	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.0	0.003	0.000
12:08:00 PM	0.0	0.003	0.000
12:09:00 PM	0.0	0.003	0.000
12:10:00 PM	0.0	0.003	0.000
12:11:00 PM	0.0	0.003	0.000
12:12:00 PM	0.0	0.003	0.000
12:13:00 PM	0.0	0.003	0.000
12:14:00 PM	0.0	0.003	0.000
12:15:00 PM	0.0	0.004	0.000
12:16:00 PM	0.0	0.003	0.000
12:17:00 PM	0.0	0.004	0.000
12:18:00 PM	0.0	0.003	0.000
12:19:00 PM	0.0	0.003	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.003	0.000
12:22:00 PM	0.0	0.003	0.000
12:23:00 PM	0.0	0.003	0.000
12:24:00 PM	0.0	0.003	0.000
12:25:00 PM	0.0	0.003	0.000
12:26:00 PM	0.0	0.004	0.000
12:27:00 PM	0.0	0.004	0.000
12:28:00 PM	0.0	0.003	0.000
12:29:00 PM	0.0	0.002	0.000
12:30:00 PM	0.0	0.002	0.000
12:31:00 PM	0.0	0.002	0.000
12:32:00 PM	0.0	0.002	0.000
12:33:00 PM	0.0	0.002	0.000
12:34:00 PM	0.0	0.002	0.000
12:35:00 PM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:36:00 PM	0.0	0.002	0.000
12:37:00 PM	0.0	0.002	0.000
12:38:00 PM	0.0	0.001	0.000
12:39:00 PM	0.0	0.001	0.000
12:40:00 PM	0.0	0.001	0.000
12:41:00 PM	0.0	0.001	0.000
12:42:00 PM	0.0	0.001	0.000
12:43:00 PM	0.0	0.001	0.000
12:44:00 PM	0.0	0.001	0.000
12:45:00 PM	0.0	0.001	0.000
12:46:00 PM	0.0	0.001	0.000
12:47:00 PM	0.0	0.001	0.000
12:48:00 PM	0.0	0.001	0.000
12:49:00 PM	0.1	0.009	0.000
12:50:00 PM	0.0	0.006	0.000
12:51:00 PM	0.0	0.009	0.000
12:52:00 PM	0.0	0.002	0.000
12:53:00 PM	0.0	0.002	0.000
12:54:00 PM	0.0	0.010	0.000
12:55:00 PM	0.0	0.003	0.000
12:56:00 PM	0.0	0.005	0.000
12:57:00 PM	0.0	0.002	0.000
12:58:00 PM	0.0	0.011	0.000
12:59:00 PM	0.0	0.008	0.000
1:00:00 PM	0.0	0.003	0.000
1:01:00 PM	0.0	0.001	0.000
1:02:00 PM	0.0	0.000	0.000
1:03:00 PM	0.0	0.000	0.000
1:04:00 PM	0.0	0.000	0.000
1:05:00 PM	0.0	0.001	0.000
1:06:00 PM	0.0	0.001	0.000
1:07:00 PM	0.0	0.001	0.000
1:08:00 PM	0.0	0.001	0.000
1:09:00 PM	0.0	0.001	0.000
1:10:00 PM	0.0	0.001	0.000
1:11:00 PM	0.0	0.001	0.000
1:12:00 PM	0.0	0.001	0.000
1:13:00 PM	0.0	0.000	0.000
1:14:00 PM	0.0	0.001	0.000
1:15:00 PM	0.0	0.001	0.000
1:16:00 PM	0.0	0.006	0.000
1:17:00 PM	0.0	0.001	0.000
1:18:00 PM	0.0	0.001	0.000
1:19:00 PM	0.0	0.000	0.000
1:20:00 PM	0.0	0.000	0.000
1:21:00 PM	0.0	0.000	0.000
1:22:00 PM	0.0	0.000	0.000
1:23:00 PM	0.0	0.000	0.000
1:24:00 PM	0.0	0.002	0.000
1:25:00 PM	0.0	0.001	0.000
1:26:00 PM	0.0	0.000	0.000
1:27:00 PM	0.0	0.000	0.000
1:28:00 PM	0.1	0.000	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:29:00 PM	0.0	0.000	0.000
1:30:00 PM	0.1	0.000	0.000
1:31:00 PM	0.0	0.003	0.000
1:32:00 PM	0.0	0.008	0.000
1:33:00 PM	0.0	0.001	0.000
1:34:00 PM	0.0	0.000	0.000
1:35:00 PM	0.0	0.000	0.000
1:36:00 PM	0.0	0.000	0.000
1:37:00 PM	0.0	0.000	0.000
1:38:00 PM	0.0	0.006	0.000
1:39:00 PM	0.0	0.001	0.000
1:40:00 PM	0.0	0.001	0.000
1:41:00 PM	0.0	0.000	0.000
1:42:00 PM	0.0	0.001	0.000
1:43:00 PM	0.0	0.000	0.000
1:44:00 PM	0.0	0.000	0.000
1:45:00 PM	0.0	0.000	0.000
1:46:00 PM	0.0	0.000	0.000
1:47:00 PM	0.0	0.005	0.000
1:48:00 PM	0.0	0.000	0.000
1:49:00 PM	0.0	0.003	0.000
1:50:00 PM	0.0	0.024	0.000
1:51:00 PM	0.0	0.018	0.000
1:52:00 PM	0.0	0.018	0.000
1:53:00 PM	0.0	0.020	0.000
1:54:00 PM	0.0	0.058	0.000
1:55:00 PM	0.0	0.014	0.000
1:56:00 PM	0.0	0.001	0.000
1:57:00 PM	0.0	0.001	0.000
1:58:00 PM	0.0	0.000	0.000
1:59:00 PM	0.0	0.000	0.000
2:00:00 PM	0.0	0.000	0.000
2:01:00 PM	0.0	0.000	0.000
2:02:00 PM	0.0	0.000	0.000
2:03:00 PM	0.0	0.000	0.000
2:04:00 PM	0.0	0.002	0.000
2:05:00 PM	0.0	0.001	0.000
2:06:00 PM	0.0	0.002	0.000
2:07:00 PM	0.0	0.001	0.000
2:08:00 PM	0.0	0.001	0.000
2:09:00 PM	0.0	0.000	0.000
2:10:00 PM	0.0	0.000	0.000
2:11:00 PM	0.0	0.000	0.000
2:12:00 PM	0.0	0.000	0.000
2:13:00 PM	0.0	0.001	0.000
2:14:00 PM	0.0	0.001	0.000
2:15:00 PM	0.0	0.001	0.000
2:16:00 PM	0.0	0.001	0.000
2:17:00 PM	0.0	0.001	0.000
2:18:00 PM	0.0	0.001	0.000
2:19:00 PM	0.0	0.001	0.000
2:20:00 PM	0.0	0.002	0.000
2:21:00 PM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:22:00 PM	0.0	0.002	0.000
2:23:00 PM	0.0	0.002	0.000
2:24:00 PM	0.0	0.002	0.000
2:25:00 PM	0.0	0.002	0.000
2:26:00 PM	0.0	0.002	0.000
2:27:00 PM	0.0	0.002	0.000
2:28:00 PM	0.0	0.002	0.000
2:29:00 PM	0.0	0.002	0.000
2:30:00 PM	0.0	0.002	0.000
2:31:00 PM	0.0	0.002	0.000
2:32:00 PM	0.0	0.002	0.000
2:33:00 PM	0.0	0.002	0.000
2:34:00 PM	0.0	0.001	0.000
2:35:00 PM	0.0	0.001	0.000
2:36:00 PM	0.0	0.002	0.000
2:37:00 PM	0.0	0.004	0.000
2:38:00 PM	0.0	0.004	0.000
2:39:00 PM	0.0	0.004	0.000
2:40:00 PM	0.0	0.002	0.000
2:41:00 PM	0.0	0.001	0.000
2:42:00 PM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:16:00 AM	0.0		0.000
9:17:00 AM	0.0		0.000
9:18:00 AM	0.0		0.000
9:19:00 AM	0.0		0.000
9:20:00 AM	0.0		0.000
9:21:00 AM	0.0		0.000
9:22:00 AM	0.0	0.268	0.000
9:23:00 AM	0.0	0.032	0.000
9:24:00 AM	0.0	0.014	0.000
9:25:00 AM	0.0	0.014	0.000
9:26:00 AM	0.0	0.014	0.000
9:27:00 AM	0.0	0.015	0.000
9:28:00 AM	0.0	0.015	0.000
9:29:00 AM	0.0	0.018	0.000
9:30:00 AM	0.0	0.013	0.000
9:31:00 AM	0.0	0.014	0.000
9:32:00 AM	0.0	0.012	0.000
9:33:00 AM	0.0	0.012	0.000
9:34:00 AM	0.0	0.013	0.000
9:35:00 AM	0.0	0.013	0.000
9:36:00 AM	0.0	0.013	0.000
9:37:00 AM	0.0	0.013	0.000
9:38:00 AM	0.0	0.013	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.0	0.013	0.000
9:42:00 AM	0.0	0.014	0.000
9:43:00 AM	0.0	0.012	0.000
9:44:00 AM	0.0	0.012	0.000
9:45:00 AM	0.0	0.012	0.000
9:46:00 AM	0.0	0.013	0.000
9:47:00 AM	0.0	0.013	0.000
9:48:00 AM	0.0	0.015	0.000
9:49:00 AM	0.0	0.015	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.016	0.000
9:52:00 AM	0.0	0.014	0.000
9:53:00 AM	0.0	0.017	0.000
9:54:00 AM	0.0	0.015	0.000
9:55:00 AM	0.0	0.013	0.000
9:56:00 AM	0.0	0.012	0.000
9:57:00 AM	0.0	0.012	0.000
9:58:00 AM	0.0	0.014	0.000
9:59:00 AM	0.0	0.013	0.000
10:00:00 AM	0.0	0.013	0.000
10:01:00 AM	0.0	0.014	0.000
10:02:00 AM	0.0	0.015	0.000
10:03:00 AM	0.0	0.014	0.000
10:04:00 AM	0.0	0.013	0.000
10:05:00 AM	0.0	0.012	0.000
10:06:00 AM	0.0	0.017	0.000
10:07:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.014	0.000
10:10:00 AM	0.0	0.014	0.000
10:11:00 AM	0.1	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.012	0.000
10:14:00 AM	0.0	0.012	0.000
10:15:00 AM	0.0	0.013	0.000
10:16:00 AM	0.0	0.014	0.000
10:17:00 AM	0.0	0.014	0.000
10:18:00 AM	0.0	0.014	0.000
10:19:00 AM	0.0	0.015	0.000
10:20:00 AM	0.0	0.014	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.014	0.000
10:23:00 AM	0.0	0.015	0.000
10:24:00 AM	0.0	0.015	0.000
10:25:00 AM	0.0	0.014	0.000
10:26:00 AM	0.0	0.014	0.000
10:27:00 AM	0.0	0.014	0.000
10:28:00 AM	0.0	0.016	0.000
10:29:00 AM	0.1	0.013	0.000
10:30:00 AM	0.0	0.014	0.000
10:31:00 AM	0.0	0.013	0.000
10:32:00 AM	0.0	0.013	0.000
10:33:00 AM	0.0	0.013	0.000
10:34:00 AM	0.0	0.013	0.000
10:35:00 AM	0.0	0.013	0.000
10:36:00 AM	0.0	0.016	0.000
10:37:00 AM	0.0	0.012	0.000
10:38:00 AM	0.1	0.012	0.000
10:39:00 AM	0.1	0.011	0.000
10:40:00 AM	0.1	0.011	0.000
10:41:00 AM	0.1	0.011	0.000
10:42:00 AM	0.1	0.011	0.000
10:43:00 AM	0.1	0.017	0.000
10:44:00 AM	0.1	0.011	0.000
10:45:00 AM	0.1	0.011	0.000
10:46:00 AM	0.1	0.011	0.000
10:47:00 AM	0.1	0.012	0.000
10:48:00 AM	0.1	0.011	0.000
10:49:00 AM	0.1	0.011	0.000
10:50:00 AM	0.1	0.012	0.000
10:51:00 AM	0.1	0.013	0.000
10:52:00 AM	0.1	0.012	0.000
10:53:00 AM	0.1	0.012	0.000
10:54:00 AM	0.1	0.011	0.000
10:55:00 AM	0.1	0.011	0.000
10:56:00 AM	0.1	0.012	0.000
10:57:00 AM	0.1	0.014	0.000
10:58:00 AM	0.1	0.013	0.000
10:59:00 AM	0.1	0.013	0.000
11:00:00 AM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:01:00 AM	0.1	0.012	0.000
11:02:00 AM	0.1	0.012	0.000
11:03:00 AM	0.1	0.012	0.000
11:04:00 AM	0.1	0.012	0.000
11:05:00 AM	0.1	0.012	0.000
11:06:00 AM	0.1	0.012	0.000
11:07:00 AM	0.1	0.012	0.000
11:08:00 AM	0.1	0.013	0.000
11:09:00 AM	0.1	0.012	0.000
11:10:00 AM	0.1	0.013	0.000
11:11:00 AM	0.1	0.015	0.000
11:12:00 AM	0.1	0.013	0.000
11:13:00 AM	0.1	0.014	0.000
11:14:00 AM	0.1	0.014	0.000
11:15:00 AM	0.1	0.017	0.000
11:16:00 AM	0.1	0.017	0.000
11:17:00 AM	0.1	0.014	0.000
11:18:00 AM	0.1	0.013	0.000
11:19:00 AM	0.1	0.014	0.000
11:20:00 AM	0.1	0.013	0.000
11:21:00 AM	0.1	0.013	0.000
11:22:00 AM	0.1	0.014	0.000
11:23:00 AM	0.1	0.014	0.000
11:24:00 AM	0.1	0.014	0.000
11:25:00 AM	0.1	0.014	0.000
11:26:00 AM	0.1	0.014	0.000
11:27:00 AM	0.1	0.013	0.000
11:28:00 AM	0.1	0.013	0.000
11:29:00 AM	0.1	0.014	0.000
11:30:00 AM	0.1	0.014	0.000
11:31:00 AM	0.2	0.013	0.000
11:32:00 AM	0.1	0.013	0.000
11:33:00 AM	0.2	0.013	0.000
11:34:00 AM	0.1	0.013	0.000
11:35:00 AM	0.1	0.013	0.000
11:36:00 AM	0.2	0.048	0.000
11:37:00 AM	0.1	0.018	0.000
11:38:00 AM	0.1	0.017	0.000
11:39:00 AM	0.1	0.071	0.000
11:40:00 AM	0.1	0.057	0.000
11:41:00 AM	0.1	0.026	0.000
11:42:00 AM	0.1	0.014	0.000
11:43:00 AM	0.1	0.014	0.000
11:44:00 AM	0.2	0.014	0.000
11:45:00 AM	0.1	0.015	0.000
11:46:00 AM	0.1	0.014	0.000
11:47:00 AM	0.1	0.015	0.000
11:48:00 AM	0.1	0.014	0.000
11:49:00 AM	0.1	0.014	0.000
11:50:00 AM	0.1	0.013	0.000
11:51:00 AM	0.1	0.012	0.000
11:52:00 AM	0.1	0.012	0.000
11:53:00 AM	0.1	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:54:00 AM	0.1	0.012	0.000
11:55:00 AM	0.1	0.013	0.000
11:56:00 AM	0.1	0.013	0.000
11:57:00 AM	0.1	0.013	0.000
11:58:00 AM	0.1	0.014	0.000
11:59:00 AM	0.1	0.014	0.000
12:00:00 PM	0.2	0.014	0.000
12:01:00 PM	0.2	0.014	0.000
12:02:00 PM	0.2	0.014	0.000
12:03:00 PM	0.1	0.014	0.000
12:04:00 PM	0.1	0.013	0.000
12:05:00 PM	0.1	0.013	0.000
12:06:00 PM	0.1	0.014	0.000
12:07:00 PM	0.1	0.013	0.000
12:08:00 PM	0.1	0.013	0.000
12:09:00 PM	0.1	0.013	0.000
12:10:00 PM	0.1	0.013	0.000
12:11:00 PM	0.1	0.013	0.000
12:12:00 PM	0.1	0.012	0.000
12:13:00 PM	0.1	0.012	0.000
12:14:00 PM	0.2	0.012	0.000
12:15:00 PM	0.2	0.013	0.000
12:16:00 PM	0.2	0.013	0.000
12:17:00 PM	0.2	0.012	0.000
12:18:00 PM	0.1	0.011	0.000
12:19:00 PM	0.2	0.011	0.000
12:20:00 PM	0.2	0.012	0.000
12:21:00 PM	0.2	0.012	0.000
12:22:00 PM	0.2	0.012	0.000
12:23:00 PM	0.2	0.012	0.000
12:24:00 PM	0.2	0.011	0.000
12:25:00 PM	0.2	0.012	0.000
12:26:00 PM	0.2	0.013	0.000
12:27:00 PM	0.2	0.012	0.000
12:28:00 PM	0.2	0.012	0.000
12:29:00 PM	0.2	0.011	0.000
12:30:00 PM	0.2	0.011	0.000
12:31:00 PM	0.2	0.012	0.000
12:32:00 PM	0.2	0.012	0.000
12:33:00 PM	0.2	0.011	0.000
12:34:00 PM	0.2	0.011	0.000
12:35:00 PM	0.2	0.011	0.000
12:36:00 PM	0.2	0.011	0.000
12:37:00 PM	0.2	0.011	0.000
12:38:00 PM	0.2	0.011	0.000
12:39:00 PM	0.2	0.011	0.000
12:40:00 PM	0.2	0.011	0.000
12:41:00 PM	0.2	0.010	0.000
12:42:00 PM	0.2	0.011	0.000
12:43:00 PM	0.2	0.010	0.000
12:44:00 PM	0.2	0.010	0.000
12:45:00 PM	0.2	0.010	0.000
12:46:00 PM	0.2	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:47:00 PM	0.2	0.009	0.000
12:48:00 PM	0.2	0.009	0.000
12:49:00 PM	0.2	0.010	0.000
12:50:00 PM	0.2	0.010	0.000
12:51:00 PM	0.2	0.010	0.000
12:52:00 PM	0.2	0.009	0.000
12:53:00 PM	0.2	0.009	0.000
12:54:00 PM	0.2	0.008	0.000
12:55:00 PM	0.2	0.009	0.000
12:56:00 PM	0.2	0.009	0.000
12:57:00 PM	0.2	0.010	0.000
12:58:00 PM	0.2	0.009	0.000
12:59:00 PM	0.2	0.010	0.000
1:00:00 PM	0.2	0.010	0.000
1:01:00 PM	0.2	0.009	0.000
1:02:00 PM	0.2	0.009	0.000
1:03:00 PM	0.2	0.008	0.000
1:04:00 PM	0.2	0.009	0.000
1:05:00 PM	0.2	0.009	0.000
1:06:00 PM	0.2	0.009	0.000
1:07:00 PM	0.2	0.010	0.000
1:08:00 PM	0.2	0.011	0.000
1:09:00 PM	0.2	0.009	0.000
1:10:00 PM	0.2	0.008	0.000
1:11:00 PM	0.2	0.009	0.000
1:12:00 PM	0.2	0.008	0.000
1:13:00 PM	0.2	0.008	0.000
1:14:00 PM	0.2	0.008	0.000
1:15:00 PM	0.2	0.010	0.000
1:16:00 PM	0.2	0.013	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.2	0.008	0.000
1:19:00 PM	0.2	0.008	0.000
1:20:00 PM	0.2	0.008	0.000
1:21:00 PM	0.2	0.008	0.000
1:22:00 PM	0.2	0.008	0.000
1:23:00 PM	0.2	0.008	0.000
1:24:00 PM	0.2	0.008	0.000
1:25:00 PM	0.2	0.009	0.000
1:26:00 PM	0.2	0.008	0.000
1:27:00 PM	0.2	0.008	0.000
1:28:00 PM	0.2	0.008	0.000
1:29:00 PM	0.2	0.009	0.000
1:30:00 PM	0.2	0.008	0.000
1:31:00 PM	0.2	0.007	0.000
1:32:00 PM	0.2	0.007	0.000
1:33:00 PM	0.2	0.008	0.000
1:34:00 PM	0.2	0.007	0.000
1:35:00 PM	0.2	0.007	0.000
1:36:00 PM	0.2	0.008	0.000
1:37:00 PM	0.2	0.009	0.000
1:38:00 PM	0.2	0.008	0.000
1:39:00 PM	0.2	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:40:00 PM	0.2	0.009	0.000
1:41:00 PM	0.2	0.008	0.000
1:42:00 PM	0.2	0.008	0.000
1:43:00 PM	0.2	0.008	0.000
1:44:00 PM	0.2	0.009	0.000
1:45:00 PM	0.2	0.008	0.000
1:46:00 PM	0.2	0.008	0.000
1:47:00 PM	0.2	0.008	0.000
1:48:00 PM	0.2	0.045	0.000
1:49:00 PM	0.2	0.01	0.000
1:50:00 PM	0.2	0.012	0.000
1:51:00 PM	0.3	0.012	0.000
1:52:00 PM	0.3	0.011	0.000
1:53:00 PM	0.2	0.015	0.000
1:54:00 PM	0.2	0.011	0.000
1:55:00 PM	0.3	0.012	0.000
1:56:00 PM	0.2	0.010	0.000
1:57:00 PM	0.2	0.009	0.000
1:58:00 PM	0.2	0.011	0.000
1:59:00 PM	0.2	0.010	0.000
2:00:00 PM	0.2	0.010	0.000
2:01:00 PM	0.2	0.009	0.000
2:02:00 PM	0.2	0.009	0.000
2:03:00 PM	0.2	0.014	0.000
2:04:00 PM	0.2	0.009	0.000
2:05:00 PM	0.2	0.014	0.000
2:06:00 PM	0.2	0.015	0.000
2:07:00 PM	0.2	0.021	0.000
2:08:00 PM	0.3	0.017	0.000
2:09:00 PM	0.2	0.014	0.000
2:10:00 PM	0.2	0.014	0.000
2:11:00 PM	0.2	0.011	0.000
2:12:00 PM	0.2	0.011	0.000
2:13:00 PM	0.2	0.011	0.000
2:14:00 PM	0.3	0.011	0.000
2:15:00 PM	0.2	0.011	0.000
2:16:00 PM	0.3	0.013	0.000
2:17:00 PM	0.2	0.013	0.000
2:18:00 PM	0.2	0.012	0.000
2:19:00 PM	0.2	0.011	0.000
2:20:00 PM	0.2	0.014	0.000
2:21:00 PM	0.2	0.013	0.000
2:22:00 PM	0.2	0.013	0.000
2:23:00 PM	0.2	0.013	0.000
2:24:00 PM	0.3	0.013	0.000
2:25:00 PM	0.2	0.012	0.000
2:26:00 PM	0.2	0.012	0.000
2:27:00 PM	0.3	0.012	0.000
2:28:00 PM	0.3	0.012	0.000
2:29:00 PM	0.3	0.014	0.000
2:30:00 PM	0.3	0.019	0.000
2:31:00 PM	0.3	0.022	0.000
2:32:00 PM	0.2	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:33:00 PM	0.2	0.013	0.000
2:34:00 PM	0.2	0.014	0.000
2:35:00 PM	0.2	0.012	0.000
2:36:00 PM	0.2	0.012	0.000
2:37:00 PM	0.2	0.013	0.000
2:38:00 PM	0.2	0.013	0.000
2:39:00 PM	0.2	0.016	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 12 mph	Date:	3/9/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco is excavating within area #4 in between the drywell digging box and the substation to depth of six feet bgs. Aarco placing all excavated soils onto the stockpile for disposal. Preferred conducting field screening of all excavated soils for VOCs and Mercury vapor no field screening results noted above background readings of 0.0 PPM and 0.000 mg/m3. Preferred collected endpoint sample CM-EP-06 B(6') and submitted the same for analysis. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.032	0.000	0.2	0.039	0.000
Down Wind	0.2	0.036	0.000	0.4	0.041	0.000
Work Zone	0.1	0.021	0.000	0.2	0.068	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue backfill area #7.



Aarco excavating area #4.



Preferred collecting endpoint sample CM-EP-06 B(6').

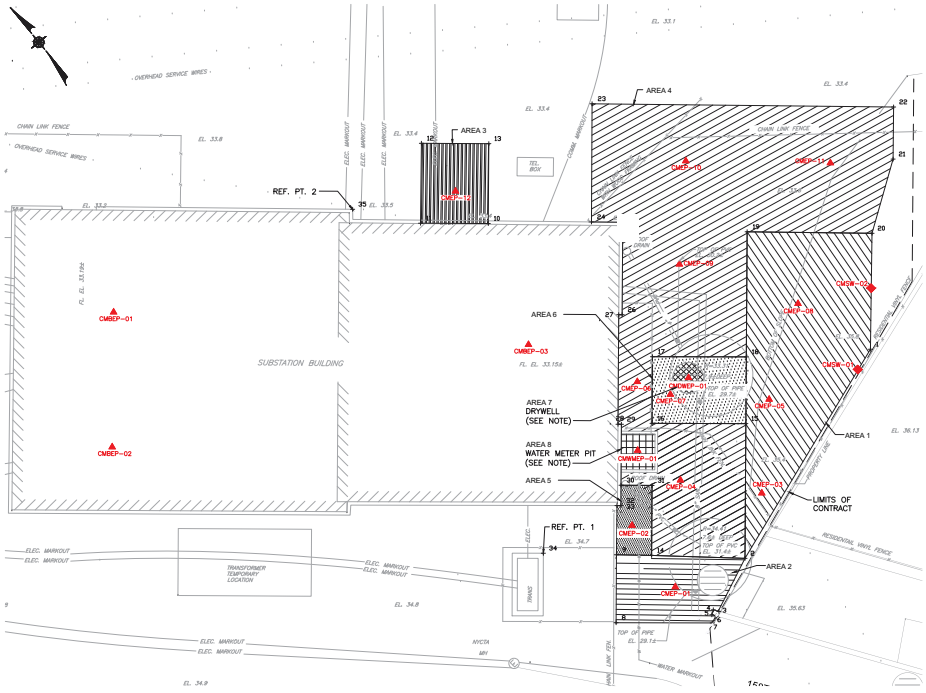


Aarco excavating area #4.



Aarco moving stockpile to allow more soil.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:48:00 AM	0.0	0.0	0.000
9:49:00 AM	0.0	0.031	0.000
9:50:00 AM	0.0	0.030	0.000
9:51:00 AM	0.0	0.034	0.000
9:52:00 AM	0.0	0.039	0.000
9:53:00 AM	0.0	0.030	0.000
9:54:00 AM	0.0	0.027	0.000
9:55:00 AM	0.0	0.029	0.000
9:56:00 AM	0.0	0.031	0.000
9:57:00 AM	0.0	0.027	0.000
9:58:00 AM	0.0	0.044	0.000
9:59:00 AM	0.0	0.028	0.000
10:00:00 AM	0.0	0.029	0.000
10:01:00 AM	0.0	0.037	0.000
10:02:00 AM	0.0	0.028	0.000
10:03:00 AM	0.0	0.029	0.000
10:04:00 AM	0.0	0.040	0.000
10:05:00 AM	0.0	0.027	0.000
10:06:00 AM	0.0	0.026	0.000
10:07:00 AM	0.0	0.048	0.000
10:08:00 AM	0.0	0.061	0.000
10:09:00 AM	0.0	0.027	0.000
10:10:00 AM	0.0	0.028	0.000
10:11:00 AM	0.0	0.027	0.000
10:12:00 AM	0.0	0.027	0.000
10:13:00 AM	0.0	0.027	0.000
10:14:00 AM	0.0	0.027	0.000
10:15:00 AM	0.0	0.029	0.000
10:16:00 AM	0.0	0.028	0.000
10:17:00 AM	0.0	0.028	0.000
10:18:00 AM	0.0	0.028	0.000
10:19:00 AM	0.0	0.030	0.000
10:20:00 AM	0.0	0.028	0.000
10:21:00 AM	0.0	0.027	0.000
10:22:00 AM	0.0	0.038	0.000
10:23:00 AM	0.0	0.030	0.000
10:24:00 AM	0.0	0.030	0.000
10:25:00 AM	0.0	0.027	0.000
10:26:00 AM	0.0	0.030	0.000
10:27:00 AM	0.0	0.028	0.000
10:28:00 AM	0.0	0.040	0.000
10:29:00 AM	0.0	0.043	0.000
10:30:00 AM	0.0	0.028	0.000
10:31:00 AM	0.0	0.044	0.000
10:32:00 AM	0.0	0.029	0.000
10:33:00 AM	0.0	0.028	0.000
10:34:00 AM	0.0	0.028	0.000
10:35:00 AM	0.0	0.036	0.000
10:36:00 AM	0.0	0.029	0.000
10:37:00 AM	0.0	0.057	0.000
10:38:00 AM	0.0	0.041	0.000
10:39:00 AM	0.0	0.030	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:40:00 AM	0.0	0.028	0.000
10:41:00 AM	0.0	0.029	0.000
10:42:00 AM	0.0	0.030	0.000
10:43:00 AM	0.0	0.047	0.000
10:44:00 AM	0.0	0.043	0.000
10:45:00 AM	0.0	0.032	0.000
10:46:00 AM	0.0	0.033	0.000
10:47:00 AM	0.0	0.029	0.000
10:48:00 AM	0.0	0.030	0.000
10:49:00 AM	0.0	0.029	0.000
10:50:00 AM	0.0	0.079	0.000
10:51:00 AM	0.0	0.034	0.000
10:52:00 AM	0.0	0.039	0.000
10:53:00 AM	0.0	0.036	0.000
10:54:00 AM	0.0	0.031	0.000
10:55:00 AM	0.0	0.031	0.000
10:56:00 AM	0.0	0.053	0.000
10:57:00 AM	0.0	0.034	0.000
10:58:00 AM	0.0	0.031	0.000
10:59:00 AM	0.0	0.043	0.000
11:00:00 AM	0.0	0.034	0.000
11:01:00 AM	0.0	0.032	0.000
11:02:00 AM	0.0	0.032	0.000
11:03:00 AM	0.0	0.032	0.000
11:04:00 AM	0.0	0.033	0.000
11:05:00 AM	0.0	0.032	0.000
11:06:00 AM	0.0	0.032	0.000
11:07:00 AM	0.0	0.032	0.000
11:08:00 AM	0.0	0.032	0.000
11:09:00 AM	0.0	0.032	0.000
11:10:00 AM	0.0	0.044	0.000
11:11:00 AM	0.0	0.036	0.000
11:12:00 AM	0.0	0.036	0.000
11:13:00 AM	0.0	0.033	0.000
11:14:00 AM	0.0	0.033	0.000
11:15:00 AM	0.0	0.043	0.000
11:16:00 AM	0.0	0.041	0.000
11:17:00 AM	0.0	0.032	0.000
11:18:00 AM	0.0	0.033	0.000
11:19:00 AM	0.0	0.032	0.000
11:20:00 AM	0.0	0.037	0.000
11:21:00 AM	0.0	0.035	0.000
11:22:00 AM	0.0	0.034	0.000
11:23:00 AM	0.0	0.033	0.000
11:24:00 AM	0.0	0.034	0.000
11:25:00 AM	0.0	0.034	0.000
11:26:00 AM	0.0	0.034	0.000
11:27:00 AM	0.0	0.033	0.000
11:28:00 AM	0.0	0.033	0.000
11:29:00 AM	0.0	0.034	0.000
11:30:00 AM	0.0	0.036	0.000
11:31:00 AM	0.0	0.035	0.000
11:32:00 AM	0.0	0.034	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:33:00 AM	0.0	0.034	0.000
11:34:00 AM	0.0	0.034	0.000
11:35:00 AM	0.0	0.034	0.000
11:36:00 AM	0.0	0.034	0.000
11:37:00 AM	0.0	0.033	0.000
11:38:00 AM	0.0	0.035	0.000
11:39:00 AM	0.0	0.035	0.000
11:40:00 AM	0.0	0.034	0.000
11:41:00 AM	0.0	0.034	0.000
11:42:00 AM	0.0	0.035	0.000
11:43:00 AM	0.0	0.036	0.000
11:44:00 AM	0.0	0.035	0.000
11:45:00 AM	0.0	0.035	0.000
11:46:00 AM	0.0	0.034	0.000
11:47:00 AM	0.0	0.036	0.000
11:48:00 AM	0.0	0.035	0.000
11:49:00 AM	0.1	0.035	0.000
11:50:00 AM	0.0	0.035	0.000
11:51:00 AM	0.0	0.034	0.000
11:52:00 AM	0.1	0.034	0.000
11:53:00 AM	0.0	0.034	0.000
11:54:00 AM	0.1	0.034	0.000
11:55:00 AM	0.1	0.035	0.000
11:56:00 AM	0.1	0.035	0.000
11:57:00 AM	0.0	0.034	0.000
11:58:00 AM	0.0	0.035	0.000
11:59:00 AM	0.1	0.034	0.000
12:00:00 PM	0.1	0.034	0.000
12:01:00 PM	0.1	0.035	0.000
12:02:00 PM	0.1	0.035	0.000
12:03:00 PM	0.1	0.035	0.000
12:04:00 PM	0.1	0.035	0.000
12:05:00 PM	0.1	0.035	0.000
12:06:00 PM	0.1	0.035	0.000
12:07:00 PM	0.1	0.035	0.000
12:08:00 PM	0.1	0.035	0.000
12:09:00 PM	0.1	0.035	0.000
12:10:00 PM	0.1	0.034	0.000
12:11:00 PM	0.1	0.038	0.000
12:12:00 PM	0.2	0.037	0.000
12:13:00 PM	0.1	0.035	0.000
12:14:00 PM	0.1	0.037	0.000
12:15:00 PM	0.1	0.035	0.000
12:16:00 PM	0.1	0.034	0.000
12:17:00 PM	0.2	0.036	0.000
12:18:00 PM	0.1	0.034	0.000
12:19:00 PM	0.2	0.034	0.000
12:20:00 PM	0.2	0.035	0.000
12:21:00 PM	0.2	0.035	0.000
12:22:00 PM	0.2	0.034	0.000
12:23:00 PM	0.2	0.033	0.000
12:24:00 PM	0.2	0.033	0.000
12:25:00 PM	0.2	0.032	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:26:00 PM	0.2	0.032	0.000
12:27:00 PM	0.1	0.032	0.000
12:28:00 PM	0.2	0.032	0.000
12:29:00 PM	0.2	0.032	0.000
12:30:00 PM	0.3	0.032	0.000
12:31:00 PM	0.2	0.031	0.000
12:32:00 PM	0.2	0.031	0.000
12:33:00 PM	0.2	0.031	0.000
12:34:00 PM	0.2	0.031	0.000
12:35:00 PM	0.2	0.030	0.000
12:36:00 PM	0.2	0.036	0.000
12:37:00 PM	0.2	0.029	0.000
12:38:00 PM	0.2	0.028	0.000
12:39:00 PM	0.2	0.029	0.000
12:40:00 PM	0.2	0.030	0.000
12:41:00 PM	0.2	0.029	0.000
12:42:00 PM	0.2	0.029	0.000
12:43:00 PM	0.2	0.030	0.000
12:44:00 PM	0.2	0.029	0.000
12:45:00 PM	0.2	0.030	0.000
12:46:00 PM	0.2	0.031	0.000
12:47:00 PM	0.2	0.028	0.000
12:48:00 PM	0.2	0.028	0.000
12:49:00 PM	0.2	0.028	0.000
12:50:00 PM	0.5	0.031	0.000
12:51:00 PM	0.2	0.034	0.000
12:52:00 PM	0.1	0.039	0.000
12:53:00 PM	0.2	0.033	0.000
12:54:00 PM	0.2	0.030	0.000
12:55:00 PM	0.1	0.028	0.000
12:56:00 PM	0.2	0.029	0.000
12:57:00 PM	0.2	0.030	0.000
12:58:00 PM	0.2	0.028	0.000
12:59:00 PM	0.2	0.028	0.000
1:00:00 PM	0.2	0.028	0.000
1:01:00 PM	0.2	0.027	0.000
1:02:00 PM	0.2	0.027	0.000
1:03:00 PM	0.1	0.027	0.000
1:04:00 PM	0.1	0.027	0.000
1:05:00 PM	0.1	0.027	0.000
1:06:00 PM	0.1	0.027	0.000
1:07:00 PM	0.1	0.035	0.000
1:08:00 PM	0.1	0.035	0.000
1:09:00 PM	0.2	0.029	0.000
1:10:00 PM	0.1	0.028	0.000
1:11:00 PM	0.1	0.027	0.000
1:12:00 PM	0.1	0.027	0.000
1:13:00 PM	0.1	0.028	0.000
1:14:00 PM	0.1	0.028	0.000
1:15:00 PM	0.1	0.028	0.000
1:16:00 PM	0.1	0.028	0.000
1:17:00 PM	0.1	0.027	0.000
1:18:00 PM	0.1	0.027	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:19:00 PM	0.1	0.026	0.000
1:20:00 PM	0.1	0.026	0.000
1:21:00 PM	0.1	0.028	0.000
1:22:00 PM	0.1	0.027	0.000
1:23:00 PM	0.1	0.026	0.000
1:24:00 PM	0.1	0.026	0.000
1:25:00 PM	0.1	0.027	0.000
1:26:00 PM	0.1	0.028	0.000
1:27:00 PM	0.1	0.028	0.000
1:28:00 PM	0.1	0.027	0.000
1:29:00 PM	0.1	0.028	0.000
1:30:00 PM	0.1	0.027	0.000
1:31:00 PM	0.1	0.027	0.000
1:32:00 PM	0.1	0.026	0.000
1:33:00 PM	0.0	0.026	0.000
1:34:00 PM	0.1	0.026	0.000
1:35:00 PM	0.1	0.026	0.000
1:36:00 PM	0.0	0.025	0.000
1:37:00 PM	0.0	0.025	0.000
1:38:00 PM	0.0	0.025	0.000
1:39:00 PM	0.0	0.026	0.000
1:40:00 PM	0.0	0.026	0.000
1:41:00 PM	0.0	0.025	0.000
1:42:00 PM	0.1	0.027	0.000
1:43:00 PM	0.0	0.027	0.000
1:44:00 PM	0.0	0.025	0.000
1:45:00 PM	0.0	0.026	0.000
1:46:00 PM	0.1	0.027	0.000
1:47:00 PM	0.0	0.025	0.000
1:48:00 PM	0.1	0.026	0.000
1:49:00 PM	0.0	0.029	0.000
1:50:00 PM	0.1	0.025	0.000
1:51:00 PM	0.0	0.026	0.000
1:52:00 PM	0.0	0.027	0.000
1:53:00 PM	0.1	0.025	0.000
1:54:00 PM	0.1	0.025	0.000
1:55:00 PM	0.0	0.028	0.000
1:56:00 PM	0.0	0.025	0.000
1:57:00 PM	0.0	0.024	0.000
1:58:00 PM	0.2	0.028	0.000
1:59:00 PM	0.0	0.024	0.000
2:00:00 PM	0.0	0.023	0.000
2:01:00 PM	0.0	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:39:00 AM	0.0		0.000
9:40:00 AM	0.0		0.000
9:41:00 AM	0.0		0.000
9:42:00 AM	0.0		0.000
9:43:00 AM	0.0	0.587	0.000
9:44:00 AM	0.0	0.045	0.000
9:45:00 AM	0.0	0.023	0.000
9:46:00 AM	0.0	0.023	0.000
9:47:00 AM	0.0	0.023	0.000
9:48:00 AM	0.0	0.022	0.000
9:49:00 AM	0.0	0.022	0.000
9:50:00 AM	0.0	0.022	0.000
9:51:00 AM	0.0	0.021	0.000
9:52:00 AM	0.0	0.026	0.000
9:53:00 AM	0.0	0.023	0.000
9:54:00 AM	0.0	0.022	0.000
9:55:00 AM	0.0	0.022	0.000
9:56:00 AM	0.0	0.022	0.000
9:57:00 AM	0.0	0.021	0.000
9:58:00 AM	0.0	0.020	0.000
9:59:00 AM	0.0	0.033	0.000
10:00:00 AM	0.0	0.022	0.000
10:01:00 AM	0.0	0.022	0.000
10:02:00 AM	0.0	0.022	0.000
10:03:00 AM	0.0	0.024	0.000
10:04:00 AM	0.0	0.026	0.000
10:05:00 AM	0.0	0.021	0.000
10:06:00 AM	0.0	0.022	0.000
10:07:00 AM	0.0	0.021	0.000
10:08:00 AM	0.0	0.022	0.000
10:09:00 AM	0.0	0.020	0.000
10:10:00 AM	0.0	0.020	0.000
10:11:00 AM	0.0	0.020	0.000
10:12:00 AM	0.0	0.020	0.000
10:13:00 AM	0.0	0.020	0.000
10:14:00 AM	0.0	0.020	0.000
10:15:00 AM	0.0	0.020	0.000
10:16:00 AM	0.0	0.021	0.000
10:17:00 AM	0.0	0.020	0.000
10:18:00 AM	0.0	0.020	0.000
10:19:00 AM	0.0	0.027	0.000
10:20:00 AM	0.0	0.022	0.000
10:21:00 AM	0.0	0.020	0.000
10:22:00 AM	0.0	0.024	0.000
10:23:00 AM	0.0	0.021	0.000
10:24:00 AM	0.0	0.021	0.000
10:25:00 AM	0.0	0.020	0.000
10:26:00 AM	0.0	0.020	0.000
10:27:00 AM	0.0	0.021	0.000
10:28:00 AM	0.0	0.022	0.000
10:29:00 AM	0.0	0.024	0.000
10:30:00 AM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:31:00 AM	0.0	0.022	0.000
10:32:00 AM	0.0	0.021	0.000
10:33:00 AM	0.0	0.021	0.000
10:34:00 AM	0.0	0.022	0.000
10:35:00 AM	0.0	0.022	0.000
10:36:00 AM	0.0	0.020	0.000
10:37:00 AM	0.0	0.024	0.000
10:38:00 AM	0.0	0.020	0.000
10:39:00 AM	0.0	0.018	0.000
10:40:00 AM	0.1	0.019	0.000
10:41:00 AM	0.0	0.020	0.000
10:42:00 AM	0.0	0.020	0.000
10:43:00 AM	0.0	0.025	0.000
10:44:00 AM	0.0	0.032	0.000
10:45:00 AM	0.0	0.020	0.000
10:46:00 AM	0.0	0.021	0.000
10:47:00 AM	0.0	0.021	0.000
10:48:00 AM	0.0	0.020	0.000
10:49:00 AM	0.0	0.021	0.000
10:50:00 AM	0.0	0.031	0.000
10:51:00 AM	0.0	0.020	0.000
10:52:00 AM	0.0	0.024	0.000
10:53:00 AM	0.0	0.026	0.000
10:54:00 AM	0.0	0.021	0.000
10:55:00 AM	0.0	0.021	0.000
10:56:00 AM	0.0	0.030	0.000
10:57:00 AM	0.0	0.024	0.000
10:58:00 AM	0.0	0.022	0.000
10:59:00 AM	0.0	0.027	0.000
11:00:00 AM	0.0	0.023	0.000
11:01:00 AM	0.0	0.021	0.000
11:02:00 AM	0.0	0.021	0.000
11:03:00 AM	0.0	0.021	0.000
11:04:00 AM	0.0	0.021	0.000
11:05:00 AM	0.0	0.021	0.000
11:06:00 AM	0.0	0.023	0.000
11:07:00 AM	0.0	0.022	0.000
11:08:00 AM	0.0	0.021	0.000
11:09:00 AM	0.0	0.021	0.000
11:10:00 AM	0.0	0.023	0.000
11:11:00 AM	0.1	0.022	0.000
11:12:00 AM	0.0	0.023	0.000
11:13:00 AM	0.0	0.022	0.000
11:14:00 AM	0.1	0.027	0.000
11:15:00 AM	0.0	0.025	0.000
11:16:00 AM	0.0	0.026	0.000
11:17:00 AM	0.0	0.022	0.000
11:18:00 AM	0.0	0.022	0.000
11:19:00 AM	0.0	0.022	0.000
11:20:00 AM	0.0	0.022	0.000
11:21:00 AM	0.0	0.023	0.000
11:22:00 AM	0.0	0.022	0.000
11:23:00 AM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:24:00 AM	0.0	0.021	0.000
11:25:00 AM	0.0	0.022	0.000
11:26:00 AM	0.1	0.022	0.000
11:27:00 AM	0.1	0.021	0.000
11:28:00 AM	0.1	0.021	0.000
11:29:00 AM	0.1	0.022	0.000
11:30:00 AM	0.1	0.022	0.000
11:31:00 AM	0.1	0.022	0.000
11:32:00 AM	0.1	0.022	0.000
11:33:00 AM	0.1	0.022	0.000
11:34:00 AM	0.1	0.022	0.000
11:35:00 AM	0.1	0.021	0.000
11:36:00 AM	0.1	0.022	0.000
11:37:00 AM	0.1	0.021	0.000
11:38:00 AM	0.1	0.021	0.000
11:39:00 AM	0.1	0.022	0.000
11:40:00 AM	0.1	0.022	0.000
11:41:00 AM	0.1	0.022	0.000
11:42:00 AM	0.1	0.022	0.000
11:43:00 AM	0.1	0.022	0.000
11:44:00 AM	0.1	0.022	0.000
11:45:00 AM	0.1	0.022	0.000
11:46:00 AM	0.1	0.021	0.000
11:47:00 AM	0.1	0.023	0.000
11:48:00 AM	0.1	0.022	0.000
11:49:00 AM	0.1	0.021	0.000
11:50:00 AM	0.1	0.021	0.000
11:51:00 AM	0.1	0.021	0.000
11:52:00 AM	0.1	0.022	0.000
11:53:00 AM	0.1	0.021	0.000
11:54:00 AM	0.1	0.022	0.000
11:55:00 AM	0.1	0.021	0.000
11:56:00 AM	0.1	0.021	0.000
11:57:00 AM	0.1	0.021	0.000
11:58:00 AM	0.1	0.021	0.000
11:59:00 AM	0.1	0.021	0.000
12:00:00 PM	0.1	0.020	0.000
12:01:00 PM	0.1	0.020	0.000
12:02:00 PM	0.1	0.021	0.000
12:03:00 PM	0.1	0.021	0.000
12:04:00 PM	0.1	0.021	0.000
12:05:00 PM	0.1	0.020	0.000
12:06:00 PM	0.1	0.020	0.000
12:07:00 PM	0.1	0.021	0.000
12:08:00 PM	0.1	0.021	0.000
12:09:00 PM	0.1	0.020	0.000
12:10:00 PM	0.1	0.020	0.000
12:11:00 PM	0.1	0.021	0.000
12:12:00 PM	0.1	0.020	0.000
12:13:00 PM	0.1	0.020	0.000
12:14:00 PM	0.2	0.020	0.000
12:15:00 PM	0.2	0.019	0.000
12:16:00 PM	0.2	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:17:00 PM	0.1	0.020	0.000
12:18:00 PM	0.2	0.021	0.000
12:19:00 PM	0.2	0.020	0.000
12:20:00 PM	0.2	0.020	0.000
12:21:00 PM	0.2	0.020	0.000
12:22:00 PM	0.2	0.019	0.000
12:23:00 PM	0.2	0.019	0.000
12:24:00 PM	0.2	0.019	0.000
12:25:00 PM	0.1	0.018	0.000
12:26:00 PM	0.2	0.018	0.000
12:27:00 PM	0.2	0.017	0.000
12:28:00 PM	0.2	0.018	0.000
12:29:00 PM	0.2	0.017	0.000
12:30:00 PM	0.2	0.017	0.000
12:31:00 PM	0.2	0.016	0.000
12:32:00 PM	0.2	0.017	0.000
12:33:00 PM	0.2	0.016	0.000
12:34:00 PM	0.2	0.017	0.000
12:35:00 PM	0.2	0.016	0.000
12:36:00 PM	0.2	0.015	0.000
12:37:00 PM	0.2	0.016	0.000
12:38:00 PM	0.2	0.016	0.000
12:39:00 PM	0.2	0.014	0.000
12:40:00 PM	0.2	0.015	0.000
12:41:00 PM	0.2	0.015	0.000
12:42:00 PM	0.2	0.015	0.000
12:43:00 PM	0.2	0.016	0.000
12:44:00 PM	0.2	0.016	0.000
12:45:00 PM	0.2	0.019	0.000
12:46:00 PM	0.2	0.020	0.000
12:47:00 PM	0.2	0.015	0.000
12:48:00 PM	0.2	0.014	0.000
12:49:00 PM	0.2	0.015	0.000
12:50:00 PM	0.2	0.015	0.000
12:51:00 PM	0.1	0.026	0.000
12:52:00 PM	0.1	0.029	0.000
12:53:00 PM	0.1	0.024	0.000
12:54:00 PM	0.1	0.019	0.000
12:55:00 PM	0.1	0.019	0.000
12:56:00 PM	0.1	0.017	0.000
12:57:00 PM	0.1	0.018	0.000
12:58:00 PM	0.1	0.016	0.000
12:59:00 PM	0.1	0.015	0.000
1:00:00 PM	0.1	0.014	0.000
1:01:00 PM	0.1	0.015	0.000
1:02:00 PM	0.1	0.016	0.000
1:03:00 PM	0.1	0.014	0.000
1:04:00 PM	0.1	0.013	0.000
1:05:00 PM	0.1	0.012	0.000
1:06:00 PM	0.1	0.013	0.000
1:07:00 PM	0.1	0.015	0.000
1:08:00 PM	0.1	0.017	0.000
1:09:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:10:00 PM	0.1	0.041	0.000
1:11:00 PM	0.1	0.017	0.000
1:12:00 PM	0.1	0.023	0.000
1:13:00 PM	0.1	0.017	0.000
1:14:00 PM	0.1	0.015	0.000
1:15:00 PM	0.1	0.014	0.000
1:16:00 PM	0.1	0.014	0.000
1:17:00 PM	0.1	0.014	0.000
1:18:00 PM	0.1	0.013	0.000
1:19:00 PM	0.1	0.012	0.000
1:20:00 PM	0.1	0.013	0.000
1:21:00 PM	0.1	0.012	0.000
1:22:00 PM	0.1	0.012	0.000
1:23:00 PM	0.1	0.012	0.000
1:24:00 PM	0.1	0.011	0.000
1:25:00 PM	0.1	0.012	0.000
1:26:00 PM	0.1	0.014	0.000
1:27:00 PM	0.1	0.014	0.000
1:28:00 PM	0.1	0.013	0.000
1:29:00 PM	0.1	0.013	0.000
1:30:00 PM	0.1	0.021	0.000
1:31:00 PM	0.1	0.019	0.000
1:32:00 PM	0.1	0.013	0.000
1:33:00 PM	0.1	0.011	0.000
1:34:00 PM	0.1	0.012	0.000
1:35:00 PM	0.1	0.011	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.010	0.000
1:38:00 PM	0.1	0.010	0.000
1:39:00 PM	0.1	0.021	0.000
1:40:00 PM	0.1	0.013	0.000
1:41:00 PM	0.1	0.011	0.000
1:42:00 PM	0.1	0.012	0.000
1:43:00 PM	0.1	0.014	0.000
1:44:00 PM	0.1	0.011	0.000
1:45:00 PM	0.1	0.011	0.000
1:46:00 PM	0.1	0.011	0.000
1:47:00 PM	0.1	0.012	0.000
1:48:00 PM	0.1	0.013	0.000
1:49:00 PM	0.1	0.011	0.000
1:50:00 PM	0.1	0.010	0.000
1:51:00 PM	0.1	0.011	0.000
1:52:00 PM	0.1	0.012	0.000
1:53:00 PM	0.1	0.010	0.000
1:54:00 PM	0.1	0.011	0.000
1:55:00 PM	0.1	0.010	0.000
1:56:00 PM	0.1	0.010	0.000
1:57:00 PM	0.1	0.010	0.000
1:58:00 PM	0.1	0.016	0.000
1:59:00 PM	0.1	0.009	0.000
2:00:00 PM	0.1	0.009	0.000
2:01:00 PM	0.1	0.010	0.000
2:02:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:03:00 PM	0.1	0.01	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:59:00 AM	0.0	0.286	0.000
10:00:00 AM	0.0	0.032	0.000
10:01:00 AM	0.0	0.032	0.000
10:02:00 AM	0.0	0.032	0.000
10:03:00 AM	0.0	0.031	0.000
10:04:00 AM	0.0	0.034	0.000
10:05:00 AM	0.0	0.031	0.000
10:06:00 AM	0.0	0.032	0.000
10:07:00 AM	0.0	0.032	0.000
10:08:00 AM	0.1	0.032	0.000
10:09:00 AM	0.0	0.031	0.000
10:10:00 AM	0.0	0.032	0.000
10:11:00 AM	0.1	0.033	0.000
10:12:00 AM	0.0	0.032	0.000
10:13:00 AM	0.1	0.032	0.000
10:14:00 AM	0.0	0.035	0.000
10:15:00 AM	0.1	0.035	0.000
10:16:00 AM	0.0	0.033	0.000
10:17:00 AM	0.1	0.032	0.000
10:18:00 AM	0.0	0.032	0.000
10:19:00 AM	0.1	0.035	0.000
10:20:00 AM	0.1	0.033	0.000
10:21:00 AM	0.1	0.032	0.000
10:22:00 AM	0.1	0.037	0.000
10:23:00 AM	0.1	0.034	0.000
10:24:00 AM	0.1	0.034	0.000
10:25:00 AM	0.1	0.032	0.000
10:26:00 AM	0.1	0.033	0.000
10:27:00 AM	0.1	0.033	0.000
10:28:00 AM	0.1	0.033	0.000
10:29:00 AM	0.1	0.033	0.000
10:30:00 AM	0.1	0.034	0.000
10:31:00 AM	0.1	0.033	0.000
10:32:00 AM	0.1	0.033	0.000
10:33:00 AM	0.1	0.033	0.000
10:34:00 AM	0.1	0.034	0.000
10:35:00 AM	0.1	0.038	0.000
10:36:00 AM	0.1	0.041	0.000
10:37:00 AM	0.1	0.034	0.000
10:38:00 AM	0.1	0.033	0.000
10:39:00 AM	0.1	0.033	0.000
10:40:00 AM	0.1	0.033	0.000
10:41:00 AM	0.1	0.035	0.000
10:42:00 AM	0.1	0.037	0.000
10:43:00 AM	0.1	0.035	0.000
10:44:00 AM	0.2	0.041	0.000
10:45:00 AM	0.1	0.036	0.000
10:46:00 AM	0.1	0.034	0.000
10:47:00 AM	0.1	0.034	0.000
10:48:00 AM	0.2	0.035	0.000
10:49:00 AM	0.2	0.034	0.000
10:50:00 AM	0.1	0.035	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:51:00 AM	0.2	0.035	0.000
10:52:00 AM	0.2	0.036	0.000
10:53:00 AM	0.2	0.037	0.000
10:54:00 AM	0.2	0.035	0.000
10:55:00 AM	0.2	0.037	0.000
10:56:00 AM	0.2	0.037	0.000
10:57:00 AM	0.2	0.036	0.000
10:58:00 AM	0.2	0.035	0.000
10:59:00 AM	0.2	0.037	0.000
11:00:00 AM	0.2	0.037	0.000
11:01:00 AM	0.2	0.037	0.000
11:02:00 AM	0.2	0.036	0.000
11:03:00 AM	0.2	0.036	0.000
11:04:00 AM	0.2	0.036	0.000
11:05:00 AM	0.2	0.037	0.000
11:06:00 AM	0.2	0.036	0.000
11:07:00 AM	0.2	0.037	0.000
11:08:00 AM	0.2	0.038	0.000
11:09:00 AM	0.2	0.037	0.000
11:10:00 AM	0.2	0.040	0.000
11:11:00 AM	0.2	0.038	0.000
11:12:00 AM	0.2	0.038	0.000
11:13:00 AM	0.2	0.038	0.000
11:14:00 AM	0.2	0.042	0.000
11:15:00 AM	0.2	0.039	0.000
11:16:00 AM	0.2	0.038	0.000
11:17:00 AM	0.2	0.038	0.000
11:18:00 AM	0.2	0.038	0.000
11:19:00 AM	0.2	0.040	0.000
11:20:00 AM	0.2	0.039	0.000
11:21:00 AM	0.2	0.038	0.000
11:22:00 AM	0.2	0.039	0.000
11:23:00 AM	0.2	0.039	0.000
11:24:00 AM	0.2	0.038	0.000
11:25:00 AM	0.2	0.039	0.000
11:26:00 AM	0.2	0.039	0.000
11:27:00 AM	0.2	0.038	0.000
11:28:00 AM	0.2	0.038	0.000
11:29:00 AM	0.2	0.038	0.000
11:30:00 AM	0.2	0.040	0.000
11:31:00 AM	0.2	0.038	0.000
11:32:00 AM	0.2	0.039	0.000
11:33:00 AM	0.2	0.039	0.000
11:34:00 AM	0.2	0.039	0.000
11:35:00 AM	0.2	0.040	0.000
11:36:00 AM	0.2	0.041	0.000
11:37:00 AM	0.2	0.039	0.000
11:38:00 AM	0.2	0.039	0.000
11:39:00 AM	0.2	0.039	0.000
11:40:00 AM	0.2	0.039	0.000
11:41:00 AM	0.2	0.039	0.000
11:42:00 AM	0.3	0.039	0.000
11:43:00 AM	0.2	0.040	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:44:00 AM	0.3	0.040	0.000
11:45:00 AM	0.2	0.041	0.000
11:46:00 AM	0.3	0.040	0.000
11:47:00 AM	0.3	0.040	0.000
11:48:00 AM	0.3	0.040	0.000
11:49:00 AM	0.3	0.040	0.000
11:50:00 AM	0.3	0.041	0.000
11:51:00 AM	0.3	0.040	0.000
11:52:00 AM	0.3	0.040	0.000
11:53:00 AM	0.3	0.040	0.000
11:54:00 AM	0.3	0.040	0.000
11:55:00 AM	0.3	0.040	0.000
11:56:00 AM	0.3	0.041	0.000
11:57:00 AM	0.3	0.040	0.000
11:58:00 AM	0.3	0.040	0.000
11:59:00 AM	0.3	0.040	0.000
12:00:00 PM	0.3	0.041	0.000
12:01:00 PM	0.3	0.040	0.000
12:02:00 PM	0.3	0.040	0.000
12:03:00 PM	0.3	0.042	0.000
12:04:00 PM	0.3	0.041	0.000
12:05:00 PM	0.3	0.041	0.000
12:06:00 PM	0.3	0.041	0.000
12:07:00 PM	0.3	0.041	0.000
12:08:00 PM	0.3	0.041	0.000
12:09:00 PM	0.3	0.041	0.000
12:10:00 PM	0.3	0.041	0.000
12:11:00 PM	0.3	0.040	0.000
12:12:00 PM	0.3	0.040	0.000
12:13:00 PM	0.3	0.040	0.000
12:14:00 PM	0.3	0.039	0.000
12:15:00 PM	0.3	0.040	0.000
12:16:00 PM	0.3	0.040	0.000
12:17:00 PM	0.3	0.040	0.000
12:18:00 PM	0.3	0.040	0.000
12:19:00 PM	0.3	0.040	0.000
12:20:00 PM	0.3	0.040	0.000
12:21:00 PM	0.3	0.039	0.000
12:22:00 PM	0.3	0.039	0.000
12:23:00 PM	0.3	0.039	0.000
12:24:00 PM	0.3	0.038	0.000
12:25:00 PM	0.3	0.038	0.000
12:26:00 PM	0.3	0.037	0.000
12:27:00 PM	0.3	0.038	0.000
12:28:00 PM	0.3	0.037	0.000
12:29:00 PM	0.3	0.036	0.000
12:30:00 PM	0.3	0.037	0.000
12:31:00 PM	0.3	0.036	0.000
12:32:00 PM	0.3	0.036	0.000
12:33:00 PM	0.3	0.036	0.000
12:34:00 PM	0.3	0.036	0.000
12:35:00 PM	0.3	0.034	0.000
12:36:00 PM	0.3	0.033	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:37:00 PM	0.3	0.033	0.000
12:38:00 PM	0.3	0.032	0.000
12:39:00 PM	0.3	0.033	0.000
12:40:00 PM	0.3	0.033	0.000
12:41:00 PM	0.3	0.033	0.000
12:42:00 PM	0.3	0.034	0.000
12:43:00 PM	0.3	0.034	0.000
12:44:00 PM	0.3	0.033	0.000
12:45:00 PM	0.3	0.034	0.000
12:46:00 PM	0.3	0.033	0.000
12:47:00 PM	0.3	0.032	0.000
12:48:00 PM	0.3	0.032	0.000
12:49:00 PM	0.3	0.033	0.000
12:50:00 PM	0.3	0.032	0.000
12:51:00 PM	0.3	0.031	0.000
12:52:00 PM	0.3	0.035	0.000
12:53:00 PM	0.3	0.033	0.000
12:54:00 PM	0.3	0.032	0.000
12:55:00 PM	0.3	0.032	0.000
12:56:00 PM	0.3	0.032	0.000
12:57:00 PM	0.3	0.031	0.000
12:58:00 PM	0.3	0.031	0.000
12:59:00 PM	0.3	0.031	0.000
1:00:00 PM	0.3	0.031	0.000
1:01:00 PM	0.3	0.030	0.000
1:02:00 PM	0.3	0.029	0.000
1:03:00 PM	0.3	0.030	0.000
1:04:00 PM	0.3	0.030	0.000
1:05:00 PM	0.3	0.030	0.000
1:06:00 PM	0.3	0.031	0.000
1:07:00 PM	0.3	0.032	0.000
1:08:00 PM	0.3	0.032	0.000
1:09:00 PM	0.3	0.032	0.000
1:10:00 PM	0.3	0.032	0.000
1:11:00 PM	0.3	0.031	0.000
1:12:00 PM	0.3	0.030	0.000
1:13:00 PM	0.3	0.031	0.000
1:14:00 PM	0.3	0.031	0.000
1:15:00 PM	0.3	0.031	0.000
1:16:00 PM	0.3	0.033	0.000
1:17:00 PM	0.3	0.031	0.000
1:18:00 PM	0.3	0.030	0.000
1:19:00 PM	0.3	0.029	0.000
1:20:00 PM	0.3	0.031	0.000
1:21:00 PM	0.3	0.031	0.000
1:22:00 PM	0.3	0.030	0.000
1:23:00 PM	0.3	0.030	0.000
1:24:00 PM	0.3	0.030	0.000
1:25:00 PM	0.3	0.030	0.000
1:26:00 PM	0.3	0.031	0.000
1:27:00 PM	0.3	0.031	0.000
1:28:00 PM	0.3	0.031	0.000
1:29:00 PM	0.3	0.031	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 9, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:30:00 PM	0.3	0.031	0.000
1:31:00 PM	0.3	0.030	0.000
1:32:00 PM	0.3	0.030	0.000
1:33:00 PM	0.3	0.030	0.000
1:34:00 PM	0.3	0.029	0.000
1:35:00 PM	0.3	0.029	0.000
1:36:00 PM	0.3	0.028	0.000
1:37:00 PM	0.3	0.029	0.000
1:38:00 PM	0.3	0.028	0.000
1:39:00 PM	0.3	0.031	0.000
1:40:00 PM	0.3	0.121	0.000
1:41:00 PM	0.3	0.034	0.000
1:42:00 PM	0.3	0.047	0.000
1:43:00 PM	0.3	0.037	0.000
1:44:00 PM	0.3	0.029	0.000
1:45:00 PM	0.3	0.030	0.000
1:46:00 PM	0.4	0.029	0.000
1:47:00 PM	0.3	0.029	0.000
1:48:00 PM	0.3	0.030	0.000
1:49:00 PM	0.3	0.029	0.000
1:50:00 PM	0.4	0.027	0.000
1:51:00 PM	0.4	0.029	0.000
1:52:00 PM	0.4	0.029	0.000
1:53:00 PM	0.4	0.027	0.000
1:54:00 PM	0.4	0.029	0.000
1:55:00 PM	0.4	0.031	0.000
1:56:00 PM	0.4	0.032	0.000
1:57:00 PM	0.4	0.041	0.000
1:58:00 PM	0.4	0.039	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From WSW ~ 12 mph	Date:	3/11/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:05 am. Aarco is backfilling areas #4 and area #7 with sand in ten (10) inch lifts. All lifts are compacted utilizing a gas-powered compactor. Skytesting is conducting compaction testing on all lifts ensuring greater than 95% compaction in all lifts. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high-risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.056	0.000	0.2	0.063	0.000
Down Wind	0.3	0.060	0.000	0.4	0.075	0.000
Work Zone	0.0	0.044	0.000	0.1	0.059	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue backfill area #7/4.



Preferred disinfecting commonly touched surfaces.



Aarco backfilling area #7 with sand.

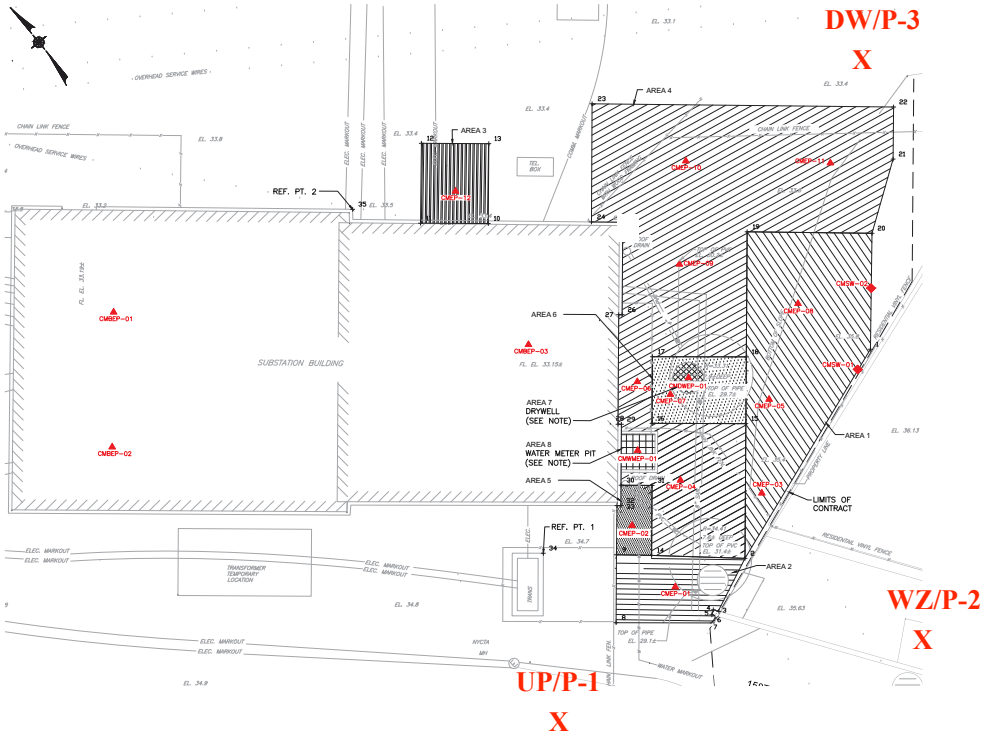


View of area #7.



Skytesting conducting compaction testing.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:25:00 AM	0.0		0.000
9:26:00 AM	0.0	0.069	0.000
9:27:00 AM	0.0	0.065	0.000
9:28:00 AM	0.0	0.062	0.000
9:29:00 AM	0.0	0.063	0.000
9:30:00 AM	0.0	0.063	0.000
9:31:00 AM	0.0	0.061	0.000
9:32:00 AM	0.0	0.061	0.000
9:33:00 AM	0.0	0.061	0.000
9:34:00 AM	0.0	0.060	0.000
9:35:00 AM	0.0	0.058	0.000
9:36:00 AM	0.0	0.057	0.000
9:37:00 AM	0.0	0.059	0.000
9:38:00 AM	0.0	0.057	0.000
9:39:00 AM	0.0	0.057	0.000
9:40:00 AM	0.0	0.056	0.000
9:41:00 AM	0.0	0.055	0.000
9:42:00 AM	0.0	0.057	0.000
9:43:00 AM	0.0	0.055	0.000
9:44:00 AM	0.0	0.064	0.000
9:45:00 AM	0.0	0.056	0.000
9:46:00 AM	0.0	0.055	0.000
9:47:00 AM	0.0	0.054	0.000
9:48:00 AM	0.0	0.054	0.000
9:49:00 AM	0.0	0.054	0.000
9:50:00 AM	0.0	0.053	0.000
9:51:00 AM	0.0	0.052	0.000
9:52:00 AM	0.0	0.052	0.000
9:53:00 AM	0.0	0.051	0.000
9:54:00 AM	0.0	0.051	0.000
9:55:00 AM	0.0	0.050	0.000
9:56:00 AM	0.0	0.050	0.000
9:57:00 AM	0.0	0.050	0.000
9:58:00 AM	0.0	0.050	0.000
9:59:00 AM	0.0	0.050	0.000
10:00:00 AM	0.0	0.050	0.000
10:01:00 AM	0.0	0.054	0.000
10:02:00 AM	0.0	0.052	0.000
10:03:00 AM	0.0	0.052	0.000
10:04:00 AM	0.0	0.054	0.000
10:05:00 AM	0.0	0.049	0.000
10:06:00 AM	0.0	0.050	0.000
10:07:00 AM	0.0	0.050	0.000
10:08:00 AM	0.0	0.049	0.000
10:09:00 AM	0.0	0.049	0.000
10:10:00 AM	0.0	0.049	0.000
10:11:00 AM	0.0	0.050	0.000
10:12:00 AM	0.0	0.050	0.000
10:13:00 AM	0.0	0.050	0.000
10:14:00 AM	0.0	0.053	0.000
10:15:00 AM	0.0	0.050	0.000
10:16:00 AM	0.0	0.050	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:17:00 AM	0.0	0.050	0.000
10:18:00 AM	0.0	0.049	0.000
10:19:00 AM	0.0	0.049	0.000
10:20:00 AM	0.0	0.050	0.000
10:21:00 AM	0.0	0.054	0.000
10:22:00 AM	0.0	0.052	0.000
10:23:00 AM	0.0	0.049	0.000
10:24:00 AM	0.0	0.053	0.000
10:25:00 AM	0.0	0.054	0.000
10:26:00 AM	0.3	0.051	0.000
10:27:00 AM	0.0	0.052	0.000
10:28:00 AM	0.0	0.052	0.000
10:29:00 AM	0.0	0.052	0.000
10:30:00 AM	0.0	0.055	0.000
10:31:00 AM	0.0	0.052	0.000
10:32:00 AM	0.0	0.051	0.000
10:33:00 AM	0.0	0.051	0.000
10:34:00 AM	0.0	0.051	0.000
10:35:00 AM	0.0	0.051	0.000
10:36:00 AM	0.0	0.051	0.000
10:37:00 AM	0.0	0.052	0.000
10:38:00 AM	0.0	0.051	0.000
10:39:00 AM	0.0	0.051	0.000
10:40:00 AM	0.0	0.052	0.000
10:41:00 AM	0.0	0.051	0.000
10:42:00 AM	0.0	0.052	0.000
10:43:00 AM	0.0	0.051	0.000
10:44:00 AM	0.0	0.051	0.000
10:45:00 AM	0.0	0.052	0.000
10:46:00 AM	0.0	0.051	0.000
10:47:00 AM	0.0	0.052	0.000
10:48:00 AM	0.0	0.052	0.000
10:49:00 AM	0.0	0.051	0.000
10:50:00 AM	0.0	0.058	0.000
10:51:00 AM	0.0	0.055	0.000
10:52:00 AM	0.0	0.052	0.000
10:53:00 AM	0.0	0.053	0.000
10:54:00 AM	0.0	0.053	0.000
10:55:00 AM	0.0	0.055	0.000
10:56:00 AM	0.0	0.053	0.000
10:57:00 AM	0.0	0.053	0.000
10:58:00 AM	0.0	0.054	0.000
10:59:00 AM	0.0	0.052	0.000
11:00:00 AM	0.0	0.053	0.000
11:01:00 AM	0.0	0.053	0.000
11:02:00 AM	0.0	0.053	0.000
11:03:00 AM	0.0	0.053	0.000
11:04:00 AM	0.0	0.054	0.000
11:05:00 AM	0.0	0.054	0.000
11:06:00 AM	0.0	0.053	0.000
11:07:00 AM	0.0	0.054	0.000
11:08:00 AM	0.0	0.053	0.000
11:09:00 AM	0.0	0.053	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:10:00 AM	0.0	0.059	0.000
11:11:00 AM	0.0	0.058	0.000
11:12:00 AM	0.0	0.054	0.000
11:13:00 AM	0.0	0.054	0.000
11:14:00 AM	0.0	0.056	0.000
11:15:00 AM	0.0	0.053	0.000
11:16:00 AM	0.0	0.054	0.000
11:17:00 AM	0.0	0.053	0.000
11:18:00 AM	0.0	0.055	0.000
11:19:00 AM	0.0	0.055	0.000
11:20:00 AM	0.0	0.056	0.000
11:21:00 AM	0.0	0.053	0.000
11:22:00 AM	0.0	0.053	0.000
11:23:00 AM	0.0	0.060	0.000
11:24:00 AM	0.0	0.055	0.000
11:25:00 AM	0.0	0.054	0.000
11:26:00 AM	0.0	0.053	0.000
11:27:00 AM	0.0	0.053	0.000
11:28:00 AM	0.0	0.053	0.000
11:29:00 AM	0.0	0.053	0.000
11:30:00 AM	0.0	0.054	0.000
11:31:00 AM	0.0	0.055	0.000
11:32:00 AM	0.0	0.056	0.000
11:33:00 AM	0.0	0.057	0.000
11:34:00 AM	0.0	0.055	0.000
11:35:00 AM	0.0	0.054	0.000
11:36:00 AM	0.0	0.054	0.000
11:37:00 AM	0.0	0.053	0.000
11:38:00 AM	0.0	0.054	0.000
11:39:00 AM	0.0	0.054	0.000
11:40:00 AM	0.1	0.054	0.000
11:41:00 AM	0.0	0.054	0.000
11:42:00 AM	0.0	0.055	0.000
11:43:00 AM	0.0	0.055	0.000
11:44:00 AM	0.0	0.055	0.000
11:45:00 AM	0.1	0.055	0.000
11:46:00 AM	0.0	0.055	0.000
11:47:00 AM	0.1	0.055	0.000
11:48:00 AM	0.1	0.055	0.000
11:49:00 AM	0.1	0.056	0.000
11:50:00 AM	0.1	0.055	0.000
11:51:00 AM	0.1	0.054	0.000
11:52:00 AM	0.2	0.054	0.000
11:53:00 AM	0.1	0.055	0.000
11:54:00 AM	0.1	0.056	0.000
11:55:00 AM	0.1	0.061	0.000
11:56:00 AM	0.1	0.060	0.000
11:57:00 AM	0.3	0.056	0.000
11:58:00 AM	0.2	0.056	0.000
11:59:00 AM	0.1	0.056	0.000
12:00:00 PM	0.1	0.057	0.000
12:01:00 PM	0.1	0.057	0.000
12:02:00 PM	0.1	0.057	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:03:00 PM	0.2	0.057	0.000
12:04:00 PM	0.1	0.057	0.000
12:05:00 PM	0.2	0.057	0.000
12:06:00 PM	0.2	0.057	0.000
12:07:00 PM	0.2	0.057	0.000
12:08:00 PM	0.2	0.058	0.000
12:09:00 PM	0.2	0.058	0.000
12:10:00 PM	0.2	0.057	0.000
12:11:00 PM	0.2	0.057	0.000
12:12:00 PM	0.2	0.057	0.000
12:13:00 PM	0.2	0.057	0.000
12:14:00 PM	0.2	0.058	0.000
12:15:00 PM	0.2	0.058	0.000
12:16:00 PM	0.1	0.059	0.000
12:17:00 PM	0.2	0.058	0.000
12:18:00 PM	0.2	0.058	0.000
12:19:00 PM	0.2	0.059	0.000
12:20:00 PM	0.2	0.060	0.000
12:21:00 PM	0.2	0.060	0.000
12:22:00 PM	0.2	0.060	0.000
12:23:00 PM	0.2	0.060	0.000
12:24:00 PM	0.2	0.060	0.000
12:25:00 PM	0.2	0.060	0.000
12:26:00 PM	0.2	0.059	0.000
12:27:00 PM	0.2	0.059	0.000
12:28:00 PM	0.2	0.060	0.000
12:29:00 PM	0.2	0.060	0.000
12:30:00 PM	0.2	0.059	0.000
12:31:00 PM	0.2	0.059	0.000
12:32:00 PM	0.2	0.060	0.000
12:33:00 PM	0.2	0.059	0.000
12:34:00 PM	0.2	0.060	0.000
12:35:00 PM	0.2	0.059	0.000
12:36:00 PM	0.2	0.058	0.000
12:37:00 PM	0.2	0.058	0.000
12:38:00 PM	0.2	0.057	0.000
12:39:00 PM	0.4	0.059	0.000
12:40:00 PM	0.2	0.059	0.000
12:41:00 PM	0.3	0.063	0.000
12:42:00 PM	0.2	0.063	0.000
12:43:00 PM	0.1	0.060	0.000
12:44:00 PM	0.2	0.059	0.000
12:45:00 PM	0.1	0.072	0.000
12:46:00 PM	0.1	0.070	0.000
12:47:00 PM	0.1	0.060	0.000
12:48:00 PM	0.2	0.062	0.000
12:49:00 PM	0.1	0.067	0.000
12:50:00 PM	0.1	0.060	0.000
12:51:00 PM	0.1	0.060	0.000
12:52:00 PM	0.1	0.060	0.000
12:53:00 PM	0.1	0.063	0.000
12:54:00 PM	0.1	0.062	0.000
12:55:00 PM	0.1	0.062	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:56:00 PM	0.1	0.060	0.000
12:57:00 PM	0.1	0.062	0.000
12:58:00 PM	0.1	0.059	0.000
12:59:00 PM	0.1	0.059	0.000
1:00:00 PM	0.1	0.059	0.000
1:01:00 PM	0.1	0.059	0.000
1:02:00 PM	0.1	0.060	0.000
1:03:00 PM	0.0	0.063	0.000
1:04:00 PM	0.0	0.062	0.000
1:05:00 PM	0.1	0.061	0.000
1:06:00 PM	0.1	0.063	0.000
1:07:00 PM	0.1	0.070	0.000
1:08:00 PM	0.1	0.062	0.000
1:09:00 PM	0.0	0.062	0.000
1:10:00 PM	0.1	0.063	0.000
1:11:00 PM	0.1	0.061	0.000
1:12:00 PM	0.1	0.062	0.000
1:13:00 PM	0.1	0.063	0.000
1:14:00 PM	0.0	0.062	0.000
1:15:00 PM	0.0	0.063	0.000
1:16:00 PM	0.1	0.064	0.000
1:17:00 PM	0.0	0.063	0.000
1:18:00 PM	0.0	0.064	0.000
1:19:00 PM	0.0	0.065	0.000
1:20:00 PM	0.0	0.064	0.000
1:21:00 PM	0.0	0.063	0.000
1:22:00 PM	0.0	0.060	0.000
1:23:00 PM	0.0	0.059	0.000
1:24:00 PM	0.0	0.057	0.000
1:25:00 PM	0.0	0.055	0.000
1:26:00 PM	0.0	0.056	0.000
1:27:00 PM	0.0	0.055	0.000
1:28:00 PM	0.0	0.054	0.000
1:29:00 PM	0.0	0.055	0.000
1:30:00 PM	0.0	0.055	0.000
1:31:00 PM	0.0	0.054	0.000
1:32:00 PM	0.0	0.054	0.000
1:33:00 PM	0.0	0.055	0.000
1:34:00 PM	0.0	0.056	0.000
1:35:00 PM	0.0	0.056	0.000
1:36:00 PM	0.0	0.055	0.000
1:37:00 PM	0.0	0.055	0.000
1:38:00 PM	0.0	0.055	0.000
1:39:00 PM	0.0	0.056	0.000
1:40:00 PM	0.0	0.055	0.000
1:41:00 PM	0.0	0.055	0.000
1:42:00 PM	0.0	0.055	0.000
1:43:00 PM	0.0	0.057	0.000
1:44:00 PM	0.0	0.058	0.000
1:45:00 PM	0.0	0.056	0.000
1:46:00 PM	0.0	0.056	0.000
1:47:00 PM	0.0	0.054	0.000
1:48:00 PM	0.0	0.055	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:49:00 PM	0.0	0.055	0.000
1:50:00 PM	0.0	0.056	0.000
1:51:00 PM	0.0	0.055	0.000
1:52:00 PM	0.0	0.055	0.000
1:53:00 PM	0.0	0.056	0.000
1:54:00 PM	0.0	0.056	0.000
1:55:00 PM	0.0	0.055	0.000
1:56:00 PM	0.0	0.055	0.000
1:57:00 PM	0.0	0.055	0.000
1:58:00 PM	0.0	0.056	0.000
1:59:00 PM	0.0	0.059	0.000
2:00:00 PM	0.0	0.060	0.000
2:01:00 PM	0.0	0.057	0.000
2:02:00 PM	0.0	0.059	0.000
2:03:00 PM	0.0	0.057	0.000
2:04:00 PM	0.0	0.062	0.000
2:05:00 PM	0.0	0.057	0.000
2:06:00 PM	0.0	0.058	0.000
2:07:00 PM	0.0	0.055	0.000
2:08:00 PM	0.0	0.055	0.000
2:09:00 PM	0.0	0.055	0.000
2:10:00 PM	0.0	0.054	0.000
2:11:00 PM	0.0	0.059	0.000
2:12:00 PM	0.0	0.055	0.000
2:13:00 PM	0.0	0.055	0.000
2:14:00 PM	0.0	0.053	0.000
2:15:00 PM	0.0	0.053	0.000
2:16:00 PM	0.0	0.053	0.000
2:17:00 PM	0.0	0.056	0.000
2:18:00 PM	0.0	0.054	0.000
2:19:00 PM	0.0	0.054	0.000
2:20:00 PM	0.0	0.057	0.000
2:21:00 PM	0.0	0.061	0.000
2:22:00 PM	0.0	0.065	0.000
2:23:00 PM	0.0	0.054	0.000
2:24:00 PM	0.0	0.121	0.000
2:25:00 PM	0.0	0.062	0.000
2:26:00 PM	0.0	0.054	0.000
2:27:00 PM	0.0	0.053	0.000
2:28:00 PM	0.0	0.052	0.000
2:29:00 PM	0.0	0.055	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:16:00 AM	0.0	0.629	0.000
9:17:00 AM	0.0	0.115	0.000
9:18:00 AM	0.0	0.062	0.000
9:19:00 AM	0.0	0.060	0.000
9:20:00 AM	0.0	0.059	0.000
9:21:00 AM	0.0	0.057	0.000
9:22:00 AM	0.0	0.057	0.000
9:23:00 AM	0.0	0.067	0.000
9:24:00 AM	0.0	0.058	0.000
9:25:00 AM	0.0	0.058	0.000
9:26:00 AM	0.0	0.060	0.000
9:27:00 AM	0.0	0.059	0.000
9:28:00 AM	0.0	0.058	0.000
9:29:00 AM	0.0	0.058	0.000
9:30:00 AM	0.0	0.057	0.000
9:31:00 AM	0.0	0.056	0.000
9:32:00 AM	0.0	0.057	0.000
9:33:00 AM	0.0	0.057	0.000
9:34:00 AM	0.0	0.057	0.000
9:35:00 AM	0.0	0.055	0.000
9:36:00 AM	0.0	0.055	0.000
9:37:00 AM	0.0	0.052	0.000
9:38:00 AM	0.0	0.051	0.000
9:39:00 AM	0.0	0.052	0.000
9:40:00 AM	0.0	0.052	0.000
9:41:00 AM	0.0	0.058	0.000
9:42:00 AM	0.0	0.050	0.000
9:43:00 AM	0.0	0.050	0.000
9:44:00 AM	0.0	0.052	0.000
9:45:00 AM	0.0	0.050	0.000
9:46:00 AM	0.0	0.050	0.000
9:47:00 AM	0.0	0.050	0.000
9:48:00 AM	0.0	0.049	0.000
9:49:00 AM	0.0	0.047	0.000
9:50:00 AM	0.0	0.046	0.000
9:51:00 AM	0.0	0.047	0.000
9:52:00 AM	0.0	0.046	0.000
9:53:00 AM	0.0	0.047	0.000
9:54:00 AM	0.0	0.045	0.000
9:55:00 AM	0.0	0.046	0.000
9:56:00 AM	0.0	0.045	0.000
9:57:00 AM	0.0	0.045	0.000
9:58:00 AM	0.0	0.044	0.000
9:59:00 AM	0.0	0.044	0.000
10:00:00 AM	0.0	0.044	0.000
10:01:00 AM	0.0	0.045	0.000
10:02:00 AM	0.0	0.045	0.000
10:03:00 AM	0.0	0.045	0.000
10:04:00 AM	0.0	0.045	0.000
10:05:00 AM	0.0	0.045	0.000
10:06:00 AM	0.0	0.045	0.000
10:07:00 AM	0.0	0.045	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:08:00 AM	0.0	0.044	0.000
10:09:00 AM	0.0	0.044	0.000
10:10:00 AM	0.0	0.043	0.000
10:11:00 AM	0.0	0.043	0.000
10:12:00 AM	0.0	0.044	0.000
10:13:00 AM	0.0	0.043	0.000
10:14:00 AM	0.0	0.043	0.000
10:15:00 AM	0.0	0.043	0.000
10:16:00 AM	0.0	0.044	0.000
10:17:00 AM	0.0	0.043	0.000
10:18:00 AM	0.0	0.042	0.000
10:19:00 AM	0.0	0.042	0.000
10:20:00 AM	0.0	0.043	0.000
10:21:00 AM	0.0	0.045	0.000
10:22:00 AM	0.0	0.044	0.000
10:23:00 AM	0.0	0.043	0.000
10:24:00 AM	0.0	0.042	0.000
10:25:00 AM	0.0	0.043	0.000
10:26:00 AM	0.0	0.043	0.000
10:27:00 AM	0.0	0.045	0.000
10:28:00 AM	0.0	0.045	0.000
10:29:00 AM	0.0	0.045	0.000
10:30:00 AM	0.0	0.044	0.000
10:31:00 AM	0.0	0.044	0.000
10:32:00 AM	0.0	0.044	0.000
10:33:00 AM	0.0	0.044	0.000
10:34:00 AM	0.0	0.044	0.000
10:35:00 AM	0.0	0.044	0.000
10:36:00 AM	0.0	0.044	0.000
10:37:00 AM	0.0	0.045	0.000
10:38:00 AM	0.0	0.044	0.000
10:39:00 AM	0.0	0.043	0.000
10:40:00 AM	0.0	0.044	0.000
10:41:00 AM	0.0	0.043	0.000
10:42:00 AM	0.0	0.043	0.000
10:43:00 AM	0.0	0.043	0.000
10:44:00 AM	0.0	0.044	0.000
10:45:00 AM	0.0	0.044	0.000
10:46:00 AM	0.0	0.044	0.000
10:47:00 AM	0.0	0.045	0.000
10:48:00 AM	0.0	0.044	0.000
10:49:00 AM	0.0	0.044	0.000
10:50:00 AM	0.0	0.044	0.000
10:51:00 AM	0.0	0.044	0.000
10:52:00 AM	0.0	0.043	0.000
10:53:00 AM	0.0	0.043	0.000
10:54:00 AM	0.0	0.042	0.000
10:55:00 AM	0.0	0.042	0.000
10:56:00 AM	0.0	0.043	0.000
10:57:00 AM	0.0	0.043	0.000
10:58:00 AM	0.0	0.043	0.000
10:59:00 AM	0.0	0.045	0.000
11:00:00 AM	0.0	0.045	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:01:00 AM	0.0	0.044	0.000
11:02:00 AM	0.0	0.044	0.000
11:03:00 AM	0.0	0.044	0.000
11:04:00 AM	0.0	0.045	0.000
11:05:00 AM	0.0	0.045	0.000
11:06:00 AM	0.0	0.044	0.000
11:07:00 AM	0.0	0.043	0.000
11:08:00 AM	0.0	0.043	0.000
11:09:00 AM	0.0	0.043	0.000
11:10:00 AM	0.0	0.046	0.000
11:11:00 AM	0.0	0.045	0.000
11:12:00 AM	0.0	0.044	0.000
11:13:00 AM	0.0	0.043	0.000
11:14:00 AM	0.0	0.044	0.000
11:15:00 AM	0.0	0.044	0.000
11:16:00 AM	0.0	0.045	0.000
11:17:00 AM	0.0	0.044	0.000
11:18:00 AM	0.0	0.045	0.000
11:19:00 AM	0.0	0.045	0.000
11:20:00 AM	0.0	0.044	0.000
11:21:00 AM	0.0	0.046	0.000
11:22:00 AM	0.0	0.043	0.000
11:23:00 AM	0.0	0.044	0.000
11:24:00 AM	0.0	0.044	0.000
11:25:00 AM	0.0	0.043	0.000
11:26:00 AM	0.0	0.043	0.000
11:27:00 AM	0.0	0.042	0.000
11:28:00 AM	0.0	0.043	0.000
11:29:00 AM	0.0	0.043	0.000
11:30:00 AM	0.0	0.043	0.000
11:31:00 AM	0.0	0.043	0.000
11:32:00 AM	0.0	0.044	0.000
11:33:00 AM	0.0	0.044	0.000
11:34:00 AM	0.0	0.043	0.000
11:35:00 AM	0.0	0.044	0.000
11:36:00 AM	0.0	0.044	0.000
11:37:00 AM	0.0	0.043	0.000
11:38:00 AM	0.0	0.043	0.000
11:39:00 AM	0.0	0.043	0.000
11:40:00 AM	0.0	0.044	0.000
11:41:00 AM	0.0	0.044	0.000
11:42:00 AM	0.0	0.043	0.000
11:43:00 AM	0.0	0.043	0.000
11:44:00 AM	0.0	0.042	0.000
11:45:00 AM	0.0	0.042	0.000
11:46:00 AM	0.0	0.043	0.000
11:47:00 AM	0.0	0.043	0.000
11:48:00 AM	0.0	0.043	0.000
11:49:00 AM	0.0	0.043	0.000
11:50:00 AM	0.0	0.043	0.000
11:51:00 AM	0.0	0.042	0.000
11:52:00 AM	0.0	0.040	0.000
11:53:00 AM	0.1	0.041	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:54:00 AM	0.1	0.041	0.000
11:55:00 AM	0.1	0.043	0.000
11:56:00 AM	0.1	0.042	0.000
11:57:00 AM	0.0	0.043	0.000
11:58:00 AM	0.1	0.044	0.000
11:59:00 AM	0.0	0.044	0.000
12:00:00 PM	0.0	0.045	0.000
12:01:00 PM	0.1	0.044	0.000
12:02:00 PM	0.1	0.043	0.000
12:03:00 PM	0.1	0.044	0.000
12:04:00 PM	0.1	0.044	0.000
12:05:00 PM	0.1	0.044	0.000
12:06:00 PM	0.1	0.044	0.000
12:07:00 PM	0.1	0.044	0.000
12:08:00 PM	0.1	0.044	0.000
12:09:00 PM	0.1	0.044	0.000
12:10:00 PM	0.1	0.043	0.000
12:11:00 PM	0.1	0.043	0.000
12:12:00 PM	0.1	0.042	0.000
12:13:00 PM	0.1	0.043	0.000
12:14:00 PM	0.1	0.044	0.000
12:15:00 PM	0.1	0.044	0.000
12:16:00 PM	0.1	0.045	0.000
12:17:00 PM	0.1	0.046	0.000
12:18:00 PM	0.1	0.046	0.000
12:19:00 PM	0.1	0.045	0.000
12:20:00 PM	0.1	0.046	0.000
12:21:00 PM	0.1	0.047	0.000
12:22:00 PM	0.1	0.047	0.000
12:23:00 PM	0.1	0.047	0.000
12:24:00 PM	0.1	0.046	0.000
12:25:00 PM	0.1	0.046	0.000
12:26:00 PM	0.1	0.045	0.000
12:27:00 PM	0.1	0.045	0.000
12:28:00 PM	0.1	0.046	0.000
12:29:00 PM	0.1	0.045	0.000
12:30:00 PM	0.1	0.045	0.000
12:31:00 PM	0.1	0.045	0.000
12:32:00 PM	0.1	0.046	0.000
12:33:00 PM	0.1	0.045	0.000
12:34:00 PM	0.1	0.045	0.000
12:35:00 PM	0.1	0.045	0.000
12:36:00 PM	0.1	0.043	0.000
12:37:00 PM	0.1	0.043	0.000
12:38:00 PM	0.1	0.043	0.000
12:39:00 PM	0.1	0.042	0.000
12:40:00 PM	0.1	0.044	0.000
12:41:00 PM	0.1	0.045	0.000
12:42:00 PM	0.1	0.045	0.000
12:43:00 PM	0.1	0.044	0.000
12:44:00 PM	0.1	0.044	0.000
12:45:00 PM	0.0	0.045	0.000
12:46:00 PM	0.0	0.044	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:47:00 PM	0.0	0.044	0.000
12:48:00 PM	0.0	0.044	0.000
12:49:00 PM	0.0	0.044	0.000
12:50:00 PM	0.0	0.045	0.000
12:51:00 PM	0.0	0.044	0.000
12:52:00 PM	0.0	0.043	0.000
12:53:00 PM	0.1	0.043	0.000
12:54:00 PM	0.0	0.043	0.000
12:55:00 PM	0.0	0.044	0.000
12:56:00 PM	0.0	0.044	0.000
12:57:00 PM	0.0	0.044	0.000
12:58:00 PM	0.0	0.043	0.000
12:59:00 PM	0.1	0.043	0.000
1:00:00 PM	0.0	0.042	0.000
1:01:00 PM	0.0	0.044	0.000
1:02:00 PM	0.0	0.045	0.000
1:03:00 PM	0.0	0.045	0.000
1:04:00 PM	0.0	0.044	0.000
1:05:00 PM	0.0	0.044	0.000
1:06:00 PM	0.0	0.043	0.000
1:07:00 PM	0.0	0.044	0.000
1:08:00 PM	0.0	0.044	0.000
1:09:00 PM	0.0	0.044	0.000
1:10:00 PM	0.0	0.044	0.000
1:11:00 PM	0.0	0.044	0.000
1:12:00 PM	0.0	0.045	0.000
1:13:00 PM	0.0	0.045	0.000
1:14:00 PM	0.0	0.045	0.000
1:15:00 PM	0.0	0.047	0.000
1:16:00 PM	0.0	0.050	0.000
1:17:00 PM	0.0	0.050	0.000
1:18:00 PM	0.0	0.047	0.000
1:19:00 PM	0.0	0.047	0.000
1:20:00 PM	0.0	0.046	0.000
1:21:00 PM	0.0	0.045	0.000
1:22:00 PM	0.0	0.043	0.000
1:23:00 PM	0.0	0.043	0.000
1:24:00 PM	0.0	0.041	0.000
1:25:00 PM	0.0	0.040	0.000
1:26:00 PM	0.0	0.039	0.000
1:27:00 PM	0.1	0.038	0.000
1:28:00 PM	0.0	0.038	0.000
1:29:00 PM	0.0	0.037	0.000
1:30:00 PM	0.0	0.038	0.000
1:31:00 PM	0.0	0.038	0.000
1:32:00 PM	0.0	0.038	0.000
1:33:00 PM	0.0	0.039	0.000
1:34:00 PM	0.0	0.039	0.000
1:35:00 PM	0.0	0.040	0.000
1:36:00 PM	0.0	0.038	0.000
1:37:00 PM	0.0	0.039	0.000
1:38:00 PM	0.0	0.038	0.000
1:39:00 PM	0.0	0.038	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:40:00 PM	0.0	0.038	0.000
1:41:00 PM	0.0	0.038	0.000
1:42:00 PM	0.0	0.038	0.000
1:43:00 PM	0.0	0.039	0.000
1:44:00 PM	0.0	0.039	0.000
1:45:00 PM	0.0	0.038	0.000
1:46:00 PM	0.0	0.038	0.000
1:47:00 PM	0.0	0.038	0.000
1:48:00 PM	0.0	0.037	0.000
1:49:00 PM	0.0	0.038	0.000
1:50:00 PM	0.0	0.038	0.000
1:51:00 PM	0.0	0.037	0.000
1:52:00 PM	0.0	0.038	0.000
1:53:00 PM	0.0	0.039	0.000
1:54:00 PM	0.0	0.038	0.000
1:55:00 PM	0.0	0.038	0.000
1:56:00 PM	0.02	0.038	0.000
1:57:00 PM	0.0	0.038	0.000
1:58:00 PM	0.0	0.038	0.000
1:59:00 PM	0.0	0.040	0.000
2:00:00 PM	0.0	0.039	0.000
2:01:00 PM	0.0	0.040	0.000
2:02:00 PM	0.0	0.039	0.000
2:03:00 PM	0.1	0.038	0.000
2:04:00 PM	0.0	0.037	0.000
2:05:00 PM	0.0	0.037	0.000
2:06:00 PM	0.0	0.037	0.000
2:07:00 PM	0.0	0.037	0.000
2:08:00 PM	0.0	0.036	0.000
2:09:00 PM	0.0	0.036	0.000
2:10:00 PM	0.0	0.036	0.000
2:11:00 PM	0.0	0.036	0.000
2:12:00 PM	0.0	0.036	0.000
2:13:00 PM	0.0	0.036	0.000
2:14:00 PM	0.0	0.036	0.000
2:15:00 PM	0.0	0.036	0.000
2:16:00 PM	0.0	0.035	0.000
2:17:00 PM	0.0	0.037	0.000
2:18:00 PM	0.0	0.035	0.000
2:19:00 PM	0.0	0.035	0.000
2:20:00 PM	0.0	0.036	0.000
2:21:00 PM	0.0	0.037	0.000
2:22:00 PM	0.0	0.036	0.000
2:23:00 PM	0.0	0.035	0.000
2:24:00 PM	0.0	0.035	0.000
2:25:00 PM	0.0	0.035	0.000
2:26:00 PM	0.0	0.035	0.000
2:27:00 PM	0.0	0.035	0.000
2:28:00 PM	0.0	0.035	0.000
2:29:00 PM	0.0	0.034	0.000
2:30:00 PM	0.0	0.035	0.000
2:31:00 PM	0.0	0.035	0.000
2:32:00 PM	0.0	0.035	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:33:00 PM	0.0	0.035	0.000
2:34:00 PM	0.0	0.034	0.000
2:35:00 PM	0.0	0.036	0.000
2:36:00 PM	0.0	0.037	0.000
2:37:00 PM	0.0	0.036	0.000
2:38:00 PM		0.036	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:21:00 AM	0.0	0.090	0.000
9:22:00 AM	0.0	0.074	0.000
9:23:00 AM	0.0	0.073	0.000
9:24:00 AM	0.0	0.076	0.000
9:25:00 AM	0.0	0.074	0.000
9:26:00 AM	0.0	0.075	0.000
9:27:00 AM	0.0	0.074	0.000
9:28:00 AM	0.0	0.074	0.000
9:29:00 AM	0.0	0.076	0.000
9:30:00 AM	0.0	0.073	0.000
9:31:00 AM	0.0	0.072	0.000
9:32:00 AM	0.0	0.073	0.000
9:33:00 AM	0.0	0.076	0.000
9:34:00 AM	0.0	0.080	0.000
9:35:00 AM	0.0	0.073	0.000
9:36:00 AM	0.0	0.072	0.000
9:37:00 AM	0.0	0.079	0.000
9:38:00 AM	0.0	0.069	0.000
9:39:00 AM	0.0	0.069	0.000
9:40:00 AM	0.0	0.068	0.000
9:41:00 AM	0.0	0.076	0.000
9:42:00 AM	0.0	0.068	0.000
9:43:00 AM	0.0	0.071	0.000
9:44:00 AM	0.0	0.071	0.000
9:45:00 AM	0.0	0.068	0.000
9:46:00 AM	0.0	0.065	0.000
9:47:00 AM	0.0	0.064	0.000
9:48:00 AM	0.0	0.066	0.000
9:49:00 AM	0.0	0.065	0.000
9:50:00 AM	0.1	0.064	0.000
9:51:00 AM	0.1	0.063	0.000
9:52:00 AM	0.0	0.061	0.000
9:53:00 AM	0.8	0.066	0.000
9:54:00 AM	0.1	0.072	0.000
9:55:00 AM	0.2	0.064	0.000
9:56:00 AM	0.2	0.071	0.000
9:57:00 AM	0.2	0.095	0.000
9:58:00 AM	0.2	0.074	0.000
9:59:00 AM	0.1	0.061	0.000
10:00:00 AM	0.2	0.063	0.000
10:01:00 AM	0.1	0.060	0.000
10:02:00 AM	0.1	0.058	0.000
10:03:00 AM	0.1	0.059	0.000
10:04:00 AM	0.1	0.060	0.000
10:05:00 AM	0.1	0.059	0.000
10:06:00 AM	0.1	0.058	0.000
10:07:00 AM	0.2	0.058	0.000
10:08:00 AM	0.2	0.059	0.000
10:09:00 AM	0.1	0.059	0.000
10:10:00 AM	0.1	0.059	0.000
10:11:00 AM	0.1	0.068	0.000
10:12:00 AM	0.2	0.062	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:13:00 AM	0.2	0.061	0.000
10:14:00 AM	0.1	0.059	0.000
10:15:00 AM	0.1	0.059	0.000
10:16:00 AM	0.1	0.064	0.000
10:17:00 AM	0.2	0.058	0.000
10:18:00 AM	0.1	0.058	0.000
10:19:00 AM	0.1	0.058	0.000
10:20:00 AM	0.2	0.059	0.000
10:21:00 AM	0.2	0.068	0.000
10:22:00 AM	0.2	0.059	0.000
10:23:00 AM	0.2	0.058	0.000
10:24:00 AM	0.2	0.061	0.000
10:25:00 AM	0.2	0.062	0.000
10:26:00 AM	0.2	0.060	0.000
10:27:00 AM	0.2	0.063	0.000
10:28:00 AM	0.2	0.061	0.000
10:29:00 AM	0.2	0.061	0.000
10:30:00 AM	0.3	0.061	0.000
10:31:00 AM	0.3	0.062	0.000
10:32:00 AM	0.2	0.065	0.000
10:33:00 AM	0.2	0.064	0.000
10:34:00 AM	0.3	0.065	0.000
10:35:00 AM	0.3	0.062	0.000
10:36:00 AM	0.3	0.061	0.000
10:37:00 AM	0.2	0.063	0.000
10:38:00 AM	0.3	0.060	0.000
10:39:00 AM	0.3	0.063	0.000
10:40:00 AM	0.2	0.060	0.000
10:41:00 AM	0.2	0.060	0.000
10:42:00 AM	0.3	0.061	0.000
10:43:00 AM	0.2	0.062	0.000
10:44:00 AM	0.2	0.060	0.000
10:45:00 AM	0.2	0.060	0.000
10:46:00 AM	0.2	0.061	0.000
10:47:00 AM	0.2	0.060	0.000
10:48:00 AM	0.3	0.060	0.000
10:49:00 AM	0.3	0.060	0.000
10:50:00 AM	0.2	0.060	0.000
10:51:00 AM	0.3	0.061	0.000
10:52:00 AM	0.3	0.060	0.000
10:53:00 AM	0.3	0.065	0.000
10:54:00 AM	0.3	0.063	0.000
10:55:00 AM	0.3	0.077	0.000
10:56:00 AM	0.3	0.061	0.000
10:57:00 AM	0.3	0.074	0.000
10:58:00 AM	0.3	0.066	0.000
10:59:00 AM	0.3	0.061	0.000
11:00:00 AM	0.3	0.062	0.000
11:01:00 AM	0.3	0.062	0.000
11:02:00 AM	0.3	0.062	0.000
11:03:00 AM	0.4	0.068	0.000
11:04:00 AM	0.3	0.066	0.000
11:05:00 AM	0.4	0.063	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:06:00 AM	0.3	0.063	0.000
11:07:00 AM	0.3	0.064	0.000
11:08:00 AM	0.3	0.076	0.000
11:09:00 AM	0.3	0.077	0.000
11:10:00 AM	0.3	0.076	0.000
11:11:00 AM	0.3	0.066	0.000
11:12:00 AM	0.3	0.063	0.000
11:13:00 AM	0.3	0.063	0.000
11:14:00 AM	0.3	0.063	0.000
11:15:00 AM	0.3	0.063	0.000
11:16:00 AM	0.3	0.063	0.000
11:17:00 AM	0.3	0.064	0.000
11:18:00 AM	0.3	0.071	0.000
11:19:00 AM	0.3	0.065	0.000
11:20:00 AM	0.3	0.071	0.000
11:21:00 AM	0.3	0.063	0.000
11:22:00 AM	0.3	0.062	0.000
11:23:00 AM	0.3	0.066	0.000
11:24:00 AM	0.3	0.062	0.000
11:25:00 AM	0.3	0.062	0.000
11:26:00 AM	0.3	0.062	0.000
11:27:00 AM	0.3	0.062	0.000
11:28:00 AM	0.3	0.062	0.000
11:29:00 AM	0.3	0.062	0.000
11:30:00 AM	0.3	0.074	0.000
11:31:00 AM	0.3	0.068	0.000
11:32:00 AM	0.3	0.063	0.000
11:33:00 AM	0.3	0.063	0.000
11:34:00 AM	0.4	0.064	0.000
11:35:00 AM	0.3	0.064	0.000
11:36:00 AM	0.3	0.065	0.000
11:37:00 AM	0.3	0.063	0.000
11:38:00 AM	0.4	0.071	0.000
11:39:00 AM	0.4	0.066	0.000
11:40:00 AM	0.4	0.064	0.000
11:41:00 AM	0.3	0.066	0.000
11:42:00 AM	0.3	0.065	0.000
11:43:00 AM	0.4	0.066	0.000
11:44:00 AM	0.3	0.065	0.000
11:45:00 AM	0.5	0.066	0.000
11:46:00 AM	0.3	0.070	0.000
11:47:00 AM	0.3	0.065	0.000
11:48:00 AM	0.3	0.065	0.000
11:49:00 AM	0.4	0.065	0.000
11:50:00 AM	0.3	0.065	0.000
11:51:00 AM	0.3	0.065	0.000
11:52:00 AM	0.3	0.064	0.000
11:53:00 AM	0.4	0.063	0.000
11:54:00 AM	0.3	0.066	0.000
11:55:00 AM	0.3	0.064	0.000
11:56:00 AM	0.3	0.064	0.000
11:57:00 AM	0.4	0.065	0.000
11:58:00 AM	0.3	0.065	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:59:00 AM	0.3	0.065	0.000
12:00:00 PM	0.4	0.067	0.000
12:01:00 PM	0.3	0.066	0.000
12:02:00 PM	0.3	0.066	0.000
12:03:00 PM	0.3	0.066	0.000
12:04:00 PM	0.3	0.066	0.000
12:05:00 PM	0.3	0.066	0.000
12:06:00 PM	0.4	0.065	0.000
12:07:00 PM	0.4	0.066	0.000
12:08:00 PM	0.4	0.065	0.000
12:09:00 PM	0.4	0.066	0.000
12:10:00 PM	0.4	0.067	0.000
12:11:00 PM	0.4	0.068	0.000
12:12:00 PM	0.3	0.065	0.000
12:13:00 PM	0.4	0.066	0.000
12:14:00 PM	0.4	0.066	0.000
12:15:00 PM	0.4	0.068	0.000
12:16:00 PM	0.4	0.069	0.000
12:17:00 PM	0.4	0.068	0.000
12:18:00 PM	0.4	0.068	0.000
12:19:00 PM	0.4	0.069	0.000
12:20:00 PM	0.4	0.069	0.000
12:21:00 PM	0.4	0.069	0.000
12:22:00 PM	0.4	0.069	0.000
12:23:00 PM	0.4	0.069	0.000
12:24:00 PM	0.4	0.069	0.000
12:25:00 PM	0.4	0.069	0.000
12:26:00 PM	0.4	0.068	0.000
12:27:00 PM	0.4	0.070	0.000
12:28:00 PM	0.4	0.070	0.000
12:29:00 PM	0.4	0.068	0.000
12:30:00 PM	0.4	0.068	0.000
12:31:00 PM	0.4	0.068	0.000
12:32:00 PM	0.4	0.070	0.000
12:33:00 PM	0.4	0.070	0.000
12:34:00 PM	0.4	0.068	0.000
12:35:00 PM	0.4	0.067	0.000
12:36:00 PM	0.4	0.066	0.000
12:37:00 PM	0.4	0.067	0.000
12:38:00 PM	0.4	0.066	0.000
12:39:00 PM	0.4	0.066	0.000
12:40:00 PM	0.3	0.067	0.000
12:41:00 PM	0.3	0.069	0.000
12:42:00 PM	0.4	0.068	0.000
12:43:00 PM	0.3	0.068	0.000
12:44:00 PM	0.3	0.068	0.000
12:45:00 PM	0.4	0.069	0.000
12:46:00 PM	0.3	0.068	0.000
12:47:00 PM	0.4	0.068	0.000
12:48:00 PM	0.4	0.068	0.000
12:49:00 PM	0.4	0.068	0.000
12:50:00 PM	0.3	0.068	0.000
12:51:00 PM	0.4	0.077	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:52:00 PM	0.4	0.072	0.000
12:53:00 PM	0.3	0.070	0.000
12:54:00 PM	0.3	0.073	0.000
12:55:00 PM	0.3	0.069	0.000
12:56:00 PM	0.3	0.068	0.000
12:57:00 PM	0.3	0.069	0.000
12:58:00 PM	0.3	0.067	0.000
12:59:00 PM	0.3	0.075	0.000
1:00:00 PM	0.3	0.073	0.000
1:01:00 PM	0.3	0.072	0.000
1:02:00 PM	0.3	0.073	0.000
1:03:00 PM	0.3	0.072	0.000
1:04:00 PM	0.3	0.069	0.000
1:05:00 PM	0.3	0.074	0.000
1:06:00 PM	0.4	0.072	0.000
1:07:00 PM	0.3	0.068	0.000
1:08:00 PM	0.3	0.069	0.000
1:09:00 PM	0.4	0.069	0.000
1:10:00 PM	0.4	0.069	0.000
1:11:00 PM	0.4	0.072	0.000
1:12:00 PM	0.4	0.070	0.000
1:13:00 PM	0.3	0.075	0.000
1:14:00 PM	0.3	0.071	0.000
1:15:00 PM	0.3	0.072	0.000
1:16:00 PM	0.4	0.073	0.000
1:17:00 PM	0.4	0.073	0.000
1:18:00 PM	0.4	0.082	0.000
1:19:00 PM	0.4	0.077	0.000
1:20:00 PM	0.4	0.072	0.000
1:21:00 PM	0.4	0.076	0.000
1:22:00 PM	0.4	0.073	0.000
1:23:00 PM	0.4	0.067	0.000
1:24:00 PM	0.5	0.072	0.000
1:25:00 PM	0.4	0.065	0.000
1:26:00 PM	0.5	0.063	0.000
1:27:00 PM	0.4	0.065	0.000
1:28:00 PM	0.4	0.064	0.000
1:29:00 PM	0.4	0.062	0.000
1:30:00 PM	0.4	0.061	0.000
1:31:00 PM	0.4	0.067	0.000
1:32:00 PM	0.4	0.067	0.000
1:33:00 PM	0.4	0.063	0.000
1:34:00 PM	0.4	0.068	0.000
1:35:00 PM	0.4	0.062	0.000
1:36:00 PM	0.4	0.060	0.000
1:37:00 PM	0.4	0.064	0.000
1:38:00 PM	0.4	0.065	0.000
1:39:00 PM	0.5	0.061	0.000
1:40:00 PM	0.4	0.061	0.000
1:41:00 PM	0.4	0.066	0.000
1:42:00 PM	0.4	0.061	0.000
1:43:00 PM	0.4	0.066	0.000
1:44:00 PM	0.4	0.066	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 11, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:45:00 PM	0.4	0.062	0.000
1:46:00 PM	0.4	0.062	0.000
1:47:00 PM	0.4	0.061	0.000
1:48:00 PM	0.4	0.067	0.000
1:49:00 PM	0.4	0.071	0.000
1:50:00 PM	0.4	0.061	0.000
1:51:00 PM	0.4	0.068	0.000
1:52:00 PM	0.4	0.063	0.000
1:53:00 PM	0.4	0.062	0.000
1:54:00 PM	0.4	0.063	0.000
1:55:00 PM	0.4	0.065	0.000
1:56:00 PM	0.4	0.062	0.000
1:57:00 PM	0.4	0.061	0.000
1:58:00 PM	0.4	0.063	0.000
1:59:00 PM	0.4	0.064	0.000
2:00:00 PM	0.4	0.063	0.000
2:01:00 PM	0.4	0.063	0.000
2:02:00 PM	0.4	0.065	0.000
2:03:00 PM	0.4	0.053	0.000
2:04:00 PM	0.4	0.001	0.000
2:05:00 PM	0.4	0.001	0.000
2:06:00 PM	0.4	0.012	0.000
2:07:00 PM	0.4	0.012	0.000
2:08:00 PM	0.4	0.011	0.000
2:09:00 PM	0.4	0.002	0.000
2:10:00 PM	0.4	0.002	0.000
2:11:00 PM	0.4	0.026	0.000
2:12:00 PM	0.4	0.010	0.000
2:13:00 PM	0.4	0.004	0.000
2:14:00 PM	0.4	0.001	0.000
2:15:00 PM	0.4	0.002	0.000
2:16:00 PM	0.4	0.002	0.000
2:17:00 PM	0.4	0.000	0.000
2:18:00 PM	0.4	0.000	0.000
2:19:00 PM	0.4	0.000	0.000
2:20:00 PM	0.3	0.000	0.000
2:21:00 PM	0.4	0.000	0.000
2:22:00 PM	0.3	0.000	0.000
2:23:00 PM	0.3	0.000	0.000
2:24:00 PM	0.3	0.000	0.000
2:25:00 PM	0.3	0.000	0.000
2:26:00 PM	0.3	0.000	0.000
2:27:00 PM	0.4	0.000	0.000
2:28:00 PM	0.3	0.000	0.000
2:29:00 PM	0.4	0.000	0.000
2:30:00 PM	0.3	0.000	0.000
2:31:00 PM	0.3	0.000	0.000
2:32:00 PM	0.4	0.000	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From WSW ~ 12 mph	Date:	3/12/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:05 am. Aarco continues backfilling areas #4 and #7 with sand in ten (10) inch lifts. All lifts are compacted utilizing a gas-powered compactor. Skytesting is conducting compaction testing on all lifts ensuring greater than 95% compaction in all lifts. Aarco reconnecting sanitary sewer piping within area #7 excavation. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high-risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.4	0.007	0.000	0.5	0.011	0.000
Down Wind	0.1	0.007	0.000	0.3	0.011	0.000
Work Zone	0.1	0.006	0.000	0.2	0.032	0.000

Exceedances (Since Last Report): None

Problems Encountered: None. Negative numbers noted on work zone particulate monitor. Replaced filter and recalibrated.

Planned Activities for the Next Day/ Week:

- Aarco will continue backfill area #7/4.



Aarco removing digging box panels as excavation is backfilled.



Aarco backfilling area #7 with sand.

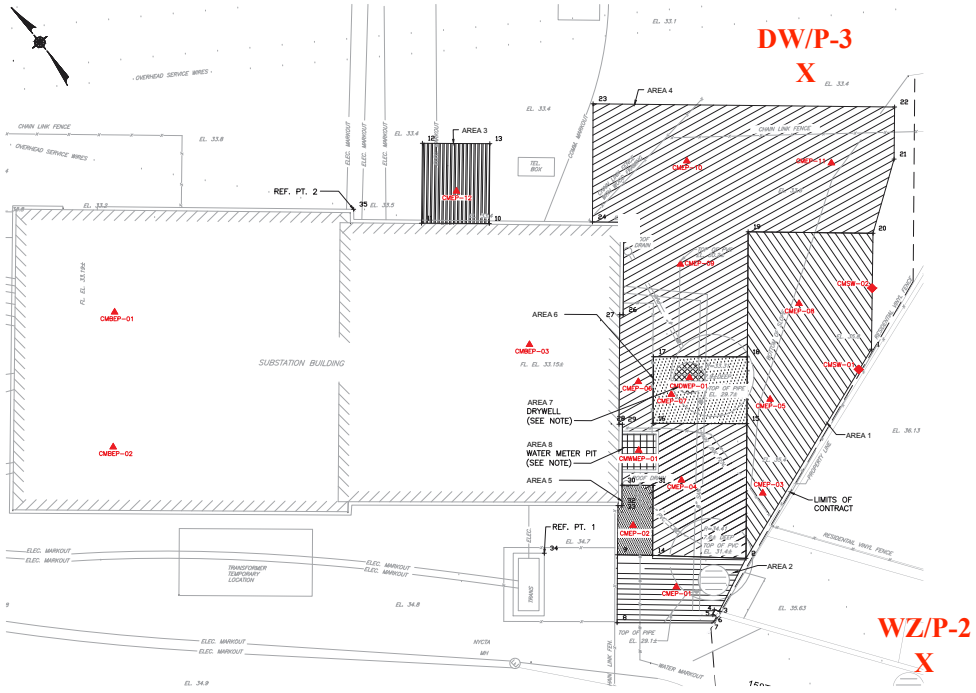


Aaarco reconnecting PVC sanitary sewer pipe.



Skytesting conducting compaction testing.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:14:00 AM	0.0		0.000
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0	0.026	0.000
9:17:00 AM	0.0	0.009	0.000
9:18:00 AM	0.0	0.007	0.000
9:19:00 AM	0.0	0.007	0.000
9:20:00 AM	0.0	0.007	0.000
9:21:00 AM	0.0	0.006	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.007	0.000
9:24:00 AM	0.0	0.007	0.000
9:25:00 AM	0.0	0.007	0.000
9:26:00 AM	0.0	0.008	0.000
9:27:00 AM	0.0	0.007	0.000
9:28:00 AM	0.0	0.008	0.000
9:29:00 AM	0.0	0.007	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.016	0.000
9:32:00 AM	0.0	0.021	0.000
9:33:00 AM	0.0	0.008	0.000
9:34:00 AM	0.0	0.008	0.000
9:35:00 AM	0.0	0.007	0.000
9:36:00 AM	0.0	0.008	0.000
9:37:00 AM	0.0	0.009	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.008	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.1	0.007	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.1	0.007	0.000
9:46:00 AM	0.1	0.007	0.000
9:47:00 AM	0.1	0.007	0.000
9:48:00 AM	0.1	0.007	0.000
9:49:00 AM	0.1	0.007	0.000
9:50:00 AM	0.2	0.007	0.000
9:51:00 AM	0.2	0.008	0.000
9:52:00 AM	0.2	0.007	0.000
9:53:00 AM	0.1	0.007	0.000
9:54:00 AM	0.1	0.007	0.000
9:55:00 AM	0.1	0.007	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.1	0.008	0.000
9:58:00 AM	0.1	0.008	0.000
9:59:00 AM	0.2	0.009	0.000
10:00:00 AM	0.1	0.008	0.000
10:01:00 AM	0.1	0.008	0.000
10:02:00 AM	0.1	0.008	0.000
10:03:00 AM	0.1	0.011	0.000
10:04:00 AM	0.0	0.009	0.000
10:05:00 AM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.1	0.010	0.000
10:08:00 AM	0.1	0.011	0.000
10:09:00 AM	0.0	0.008	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.1	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.1	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.2	0.007	0.000
10:20:00 AM	0.2	0.007	0.000
10:21:00 AM	0.1	0.008	0.000
10:22:00 AM	0.1	0.008	0.000
10:23:00 AM	0.1	0.008	0.000
10:24:00 AM	0.1	0.007	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.3	0.007	0.000
10:27:00 AM	0.2	0.007	0.000
10:28:00 AM	0.3	0.007	0.000
10:29:00 AM	0.2	0.006	0.000
10:30:00 AM	0.3	0.007	0.000
10:31:00 AM	0.0	0.008	0.000
10:32:00 AM	0.1	0.007	0.000
10:33:00 AM	0.1	0.007	0.000
10:34:00 AM	0.1	0.006	0.000
10:35:00 AM	0.1	0.006	0.000
10:36:00 AM	0.1	0.007	0.000
10:37:00 AM	0.2	0.006	0.000
10:38:00 AM	0.1	0.007	0.000
10:39:00 AM	0.1	0.007	0.000
10:40:00 AM	0.1	0.007	0.000
10:41:00 AM	0.2	0.007	0.000
10:42:00 AM	0.1	0.006	0.000
10:43:00 AM	0.2	0.006	0.000
10:44:00 AM	0.1	0.006	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.1	0.006	0.000
10:47:00 AM	0.1	0.005	0.000
10:48:00 AM	0.1	0.005	0.000
10:49:00 AM	0.1	0.006	0.000
10:50:00 AM	0.2	0.006	0.000
10:51:00 AM	0.1	0.006	0.000
10:52:00 AM	0.2	0.006	0.000
10:53:00 AM	0.2	0.006	0.000
10:54:00 AM	0.1	0.006	0.000
10:55:00 AM	0.2	0.006	0.000
10:56:00 AM	0.2	0.006	0.000
10:57:00 AM	0.1	0.006	0.000
10:58:00 AM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:59:00 AM	0.2	0.006	0.000
11:00:00 AM	0.2	0.006	0.000
11:01:00 AM	0.1	0.006	0.000
11:02:00 AM	0.2	0.006	0.000
11:03:00 AM	1.0	0.006	0.000
11:04:00 AM	0.3	0.006	0.000
11:05:00 AM	0.2	0.006	0.000
11:06:00 AM	0.2	0.006	0.000
11:07:00 AM	0.2	0.006	0.000
11:08:00 AM	0.2	0.007	0.000
11:09:00 AM	0.2	0.006	0.000
11:10:00 AM	0.2	0.006	0.000
11:11:00 AM	0.2	0.007	0.000
11:12:00 AM	0.2	0.007	0.000
11:13:00 AM	0.2	0.006	0.000
11:14:00 AM	0.2	0.006	0.000
11:15:00 AM	0.2	0.006	0.000
11:16:00 AM	0.2	0.006	0.000
11:17:00 AM	0.2	0.006	0.000
11:18:00 AM	0.2	0.006	0.000
11:19:00 AM	0.2	0.006	0.000
11:20:00 AM	0.2	0.006	0.000
11:21:00 AM	0.3	0.006	0.000
11:22:00 AM	0.3	0.006	0.000
11:23:00 AM	0.3	0.006	0.000
11:24:00 AM	0.3	0.006	0.000
11:25:00 AM	0.3	0.006	0.000
11:26:00 AM	0.3	0.006	0.000
11:27:00 AM	0.3	0.006	0.000
11:28:00 AM	0.3	0.006	0.000
11:29:00 AM	0.4	0.006	0.000
11:30:00 AM	0.4	0.006	0.000
11:31:00 AM	0.4	0.006	0.000
11:32:00 AM	0.4	0.006	0.000
11:33:00 AM	0.4	0.006	0.000
11:34:00 AM	0.4	0.006	0.000
11:35:00 AM	0.4	0.006	0.000
11:36:00 AM	0.4	0.006	0.000
11:37:00 AM	0.4	0.006	0.000
11:38:00 AM	0.4	0.006	0.000
11:39:00 AM	0.4	0.005	0.000
11:40:00 AM	0.4	0.005	0.000
11:41:00 AM	0.4	0.005	0.000
11:42:00 AM	0.4	0.006	0.000
11:43:00 AM	0.4	0.006	0.000
11:44:00 AM	0.4	0.006	0.000
11:45:00 AM	0.4	0.005	0.000
11:46:00 AM	0.4	0.006	0.000
11:47:00 AM	0.4	0.005	0.000
11:48:00 AM	0.4	0.006	0.000
11:49:00 AM	0.4	0.005	0.000
11:50:00 AM	0.4	0.006	0.000
11:51:00 AM	0.4	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:52:00 AM	0.5	0.006	0.000
11:53:00 AM	0.4	0.005	0.000
11:54:00 AM	0.4	0.005	0.000
11:55:00 AM	0.4	0.006	0.000
11:56:00 AM	0.5	0.005	0.000
11:57:00 AM	0.4	0.005	0.000
11:58:00 AM	0.4	0.005	0.000
11:59:00 AM	0.4	0.005	0.000
12:00:00 PM	0.4	0.005	0.000
12:01:00 PM	0.4	0.005	0.000
12:02:00 PM	0.5	0.006	0.000
12:03:00 PM	0.5	0.005	0.000
12:04:00 PM	0.4	0.006	0.000
12:05:00 PM	0.4	0.008	0.000
12:06:00 PM	0.4	0.006	0.000
12:07:00 PM	0.4	0.005	0.000
12:08:00 PM	0.4	0.005	0.000
12:09:00 PM	0.4	0.006	0.000
12:10:00 PM	0.4	0.006	0.000
12:11:00 PM	0.4	0.005	0.000
12:12:00 PM	0.4	0.006	0.000
12:13:00 PM	0.4	0.006	0.000
12:14:00 PM	0.4	0.006	0.000
12:15:00 PM	0.4	0.006	0.000
12:16:00 PM	0.4	0.006	0.000
12:17:00 PM	0.4	0.006	0.000
12:18:00 PM	0.4	0.006	0.000
12:19:00 PM	0.4	0.007	0.000
12:20:00 PM	0.4	0.006	0.000
12:21:00 PM	0.4	0.006	0.000
12:22:00 PM	0.4	0.006	0.000
12:23:00 PM	0.4	0.005	0.000
12:24:00 PM	0.5	0.005	0.000
12:25:00 PM	0.7	0.006	0.000
12:26:00 PM	0.6	0.006	0.000
12:27:00 PM	0.5	0.005	0.000
12:28:00 PM	0.5	0.006	0.000
12:29:00 PM	0.5	0.005	0.000
12:30:00 PM	0.6	0.005	0.000
12:31:00 PM	0.5	0.005	0.000
12:32:00 PM	0.5	0.005	0.000
12:33:00 PM	0.5	0.005	0.000
12:34:00 PM	0.5	0.005	0.000
12:35:00 PM	0.6	0.005	0.000
12:36:00 PM	0.5	0.006	0.000
12:37:00 PM	0.5	0.006	0.000
12:38:00 PM	0.5	0.006	0.000
12:39:00 PM	0.5	0.006	0.000
12:40:00 PM	0.6	0.007	0.000
12:41:00 PM	0.5	0.006	0.000
12:42:00 PM	0.5	0.006	0.000
12:43:00 PM	0.5	0.005	0.000
12:44:00 PM	0.6	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:45:00 PM	0.5	0.006	0.000
12:46:00 PM	0.5	0.006	0.000
12:47:00 PM	0.5	0.006	0.000
12:48:00 PM	0.5	0.006	0.000
12:49:00 PM	0.5	0.006	0.000
12:50:00 PM	0.5	0.006	0.000
12:51:00 PM	0.5	0.006	0.000
12:52:00 PM	0.5	0.006	0.000
12:53:00 PM	0.5	0.005	0.000
12:54:00 PM	0.4	0.006	0.000
12:55:00 PM	0.4	0.006	0.000
12:56:00 PM	0.4	0.005	0.000
12:57:00 PM	0.5	0.005	0.000
12:58:00 PM	0.4	0.005	0.000
12:59:00 PM	0.5	0.005	0.000
1:00:00 PM	0.5	0.006	0.000
1:01:00 PM	0.4	0.007	0.000
1:02:00 PM	0.4	0.006	0.000
1:03:00 PM	0.5	0.006	0.000
1:04:00 PM	0.5	0.021	0.000
1:05:00 PM	0.5	0.011	0.000
1:06:00 PM	0.4	0.008	0.000
1:07:00 PM	0.4	0.008	0.000
1:08:00 PM	0.4	0.009	0.000
1:09:00 PM	0.4	0.009	0.000
1:10:00 PM	0.4	0.008	0.000
1:11:00 PM	0.4	0.008	0.000
1:12:00 PM	0.5	0.008	0.000
1:13:00 PM	0.4	0.008	0.000
1:14:00 PM	0.5	0.007	0.000
1:15:00 PM	0.4	0.009	0.000
1:16:00 PM	0.4	0.011	0.000
1:17:00 PM	0.4	0.011	0.000
1:18:00 PM	0.4	0.011	0.000
1:19:00 PM	0.5	0.011	0.000
1:20:00 PM	0.5	0.011	0.000
1:21:00 PM	0.5	0.010	0.000
1:22:00 PM	0.4	0.009	0.000
1:23:00 PM	0.5	0.010	0.000
1:24:00 PM	0.4	0.019	0.000
1:25:00 PM	0.4	0.011	0.000
1:26:00 PM	0.4	0.010	0.000
1:27:00 PM	0.4	0.010	0.000
1:28:00 PM	0.4	0.010	0.000
1:29:00 PM	0.4	0.010	0.000
1:30:00 PM	0.4	0.009	0.000
1:31:00 PM	0.3	0.009	0.000
1:32:00 PM	0.4	0.009	0.000
1:33:00 PM	0.4	0.009	0.000
1:34:00 PM	0.4	0.009	0.000
1:35:00 PM	0.4	0.008	0.000
1:36:00 PM	0.4	0.009	0.000
1:37:00 PM	0.3	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:38:00 PM	0.4	0.009	0.000
1:39:00 PM	0.3	0.009	0.000
1:40:00 PM	0.4	0.008	0.000
1:41:00 PM	0.4	0.007	0.000
1:42:00 PM	0.4	0.007	0.000
1:43:00 PM	0.4	0.009	0.000
1:44:00 PM	0.4	0.007	0.000
1:45:00 PM	0.3	0.007	0.000
1:46:00 PM	0.3	0.007	0.000
1:47:00 PM	0.3	0.008	0.000
1:48:00 PM	0.3	0.007	0.000
1:49:00 PM	0.3	0.007	0.000
1:50:00 PM	0.4	0.007	0.000
1:51:00 PM	0.3	0.007	0.000
1:52:00 PM	0.3	0.007	0.000
1:53:00 PM	0.3	0.007	0.000
1:54:00 PM	0.3	0.007	0.000
1:55:00 PM	0.4	0.007	0.000
1:56:00 PM	0.3	0.007	0.000
1:57:00 PM	0.3	0.007	0.000
1:58:00 PM	0.4	0.007	0.000
1:59:00 PM	0.4	0.007	0.000
2:00:00 PM	0.3	0.007	0.000
2:01:00 PM	0.3	0.020	0.000
2:02:00 PM	0.4	0.019	0.000
2:03:00 PM	0.3	0.007	0.000
2:04:00 PM	0.4	0.006	0.000
2:05:00 PM	0.4	0.006	0.000
2:06:00 PM	0.4	0.007	0.000
2:07:00 PM	0.4	0.007	0.000
2:08:00 PM	0.3	0.007	0.000
2:09:00 PM	0.3	0.006	0.000
2:10:00 PM	0.3	0.006	0.000
2:11:00 PM	0.4	0.005	0.000
2:12:00 PM	0.4	0.006	0.000
2:13:00 PM	0.4	0.007	0.000
2:14:00 PM	0.4	0.007	0.000
2:15:00 PM	0.4	0.006	0.000
2:16:00 PM	0.4	0.006	0.000
2:17:00 PM	0.3	0.005	0.000
2:18:00 PM	0.4	0.006	0.000
2:19:00 PM	0.4	0.006	0.000
2:20:00 PM	0.4	0.006	0.000
2:21:00 PM	0.4	0.006	0.000
2:22:00 PM	0.4	0.005	0.000
2:23:00 PM	0.4	0.006	0.000
2:24:00 PM	0.4	0.006	0.000
2:25:00 PM	0.4	0.006	0.000
2:26:00 PM	0.3	0.005	0.000
2:27:00 PM	0.4	0.005	0.000
2:28:00 PM	0.4	0.005	0.000
2:29:00 PM	0.4	0.005	0.000
2:30:00 PM	0.6	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:31:00 PM	0.6	0.006	0.000
2:32:00 PM	0.4	0.006	0.000
2:33:00 PM	18.5	0.005	0.000
2:34:00 PM	0.7	0.005	0.000
2:35:00 PM	0.5	0.006	0.000
2:36:00 PM	0.5	0.006	0.000
2:37:00 PM	0.5	0.005	0.000
2:38:00 PM	0.5	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:23:00 AM	0.0	0.007	0.000
9:24:00 AM	0.0	0.086	0.000
9:25:00 AM	0.0	0.006	0.000
9:26:00 AM	0.0	0.007	0.000
9:27:00 AM	0.0	0.012	0.000
9:28:00 AM	0.0	0.036	0.000
9:29:00 AM	0.0	0.006	0.000
9:30:00 AM	0.0	0.008	0.000
9:31:00 AM	0.0	0.020	0.000
9:32:00 AM	0.0	0.011	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.015	0.000
9:35:00 AM	0.0	0.006	0.000
9:36:00 AM	0.0	0.005	0.000
9:37:00 AM	0.0	0.008	0.000
9:38:00 AM	0.0	0.006	0.000
9:39:00 AM	0.0	0.007	0.000
9:40:00 AM	0.0	0.009	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.004	0.000
9:43:00 AM	0.0	0.010	0.000
9:44:00 AM	0.1	0.007	0.000
9:45:00 AM	0.0	0.013	0.000
9:46:00 AM	0.0	0.009	0.000
9:47:00 AM	0.0	0.009	0.000
9:48:00 AM	0.1	0.008	0.000
9:49:00 AM	0.1	0.003	0.000
9:50:00 AM	0.1	0.014	0.000
9:51:00 AM	0.1	0.015	0.000
9:52:00 AM	0.1	0.006	0.000
9:53:00 AM	0.1	0.013	0.000
9:54:00 AM	0.1	0.003	0.000
9:55:00 AM	0.1	0.011	0.000
9:56:00 AM	0.1	0.006	0.000
9:57:00 AM	0.1	0.003	0.000
9:58:00 AM	0.1	0.003	0.000
9:59:00 AM	0.1	0.002	0.000
10:00:00 AM	0.1	0.001	0.000
10:01:00 AM	0.1	0.002	0.000
10:02:00 AM	0.1	0.002	0.000
10:03:00 AM	0.1	0.003	0.000
10:04:00 AM	0.1	0.002	0.000
10:05:00 AM	0.1	0.001	0.000
10:06:00 AM	0.1	0.003	0.000
10:07:00 AM	0.1	0.006	0.000
10:08:00 AM	0.1	0.009	0.000
10:09:00 AM	0.1	0.009	0.000
10:10:00 AM	0.1	0.003	0.000
10:11:00 AM	0.1	0.001	0.000
10:12:00 AM	0.1	0.001	0.000
10:13:00 AM	0.1	0.001	0.000
10:14:00 AM	0.1	0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:15:00 AM	0.1	0.001	0.000
10:16:00 AM	0.1	0.001	0.000
10:17:00 AM	0.1	0.000	0.000
10:18:00 AM	0.0	0.000	0.000
10:19:00 AM	0.1	0.000	0.000
10:20:00 AM	0.1	0.000	0.000
10:21:00 AM	0.1	0.011	0.000
10:22:00 AM	0.1	0.021	0.000
10:23:00 AM	0.0	0.004	0.000
10:24:00 AM	0.1	0.000	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.1	0.013	0.000
10:27:00 AM	0.1	0.004	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.1	0.002	0.000
10:30:00 AM	0.1	0.000	0.000
10:31:00 AM	0.1	0.003	0.000
10:32:00 AM	0.1	0.034	0.000
10:33:00 AM	0.0	0.003	0.000
10:34:00 AM	0.0	0.015	0.000
10:35:00 AM	0.0	0.028	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.1	0.004	0.000
10:38:00 AM	0.1	0.009	0.000
10:39:00 AM	0.1	0.014	0.000
10:40:00 AM	0.0	0.005	0.000
10:41:00 AM	0.0	0.001	0.000
10:42:00 AM	0.0	0.000	0.000
10:43:00 AM	0.1	0.000	0.000
10:44:00 AM	0.0	0.003	0.000
10:45:00 AM	0.0	0.001	0.000
10:46:00 AM	0.0	0.000	0.000
10:47:00 AM	0.0	0.000	0.000
10:48:00 AM	0.0	0.000	0.000
10:49:00 AM	0.0	0.001	0.000
10:50:00 AM	0.0	0.000	0.000
10:51:00 AM	0.0	-0.001	0.000
10:52:00 AM	0.0	-0.001	0.000
10:53:00 AM	0.1	-0.001	0.000
10:54:00 AM	0.0	-0.001	0.000
10:55:00 AM	0.1	-0.001	0.000
10:56:00 AM	0.0	-0.001	0.000
10:57:00 AM	0.1	-0.001	0.000
10:58:00 AM	0.1	0.000	0.000
10:59:00 AM	0.1	-0.001	0.000
11:00:00 AM	0.1	-0.001	0.000
11:01:00 AM	0.1	-0.001	0.000
11:02:00 AM	0.1	-0.001	0.000
11:03:00 AM	0.1	-0.001	0.000
11:04:00 AM	0.1	-0.001	0.000
11:05:00 AM	0.1	-0.001	0.000
11:06:00 AM	0.1	0.000	0.000
11:07:00 AM	0.1	0.000	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:08:00 AM	0.1	0.000	0.000
11:09:00 AM	0.1	-0.001	0.000
11:10:00 AM	0.1	-0.001	0.000
11:11:00 AM	0.1	0.000	0.000
11:12:00 AM	0.1	0.000	0.000
11:13:00 AM	0.0	0.001	0.000
11:14:00 AM	0.1	0.001	0.000
11:15:00 AM	0.1	-0.001	0.000
11:16:00 AM	0.0	-0.001	0.000
11:17:00 AM	0.0	-0.001	0.000
11:18:00 AM	0.0	-0.001	0.000
11:19:00 AM	0.0	-0.001	0.000
11:20:00 AM	0.0	0.000	0.000
11:21:00 AM	0.0	0.000	0.000
11:22:00 AM	0.0	-0.001	0.000
11:23:00 AM	0.0	-0.002	0.000
11:24:00 AM	0.0	-0.001	0.000
11:25:00 AM	0.0	-0.001	0.000
11:26:00 AM	0.0	-0.001	0.000
11:27:00 AM	0.0	0.000	0.000
11:28:00 AM	0.0	0.000	0.000
11:29:00 AM	0.0	0.000	0.000
11:30:00 AM	0.0	0.002	0.000
11:31:00 AM	0.0	-0.001	0.000
11:32:00 AM	0.0	-0.001	0.000
11:33:00 AM	0.1	0.005	0.000
11:34:00 AM	0.0	0.002	0.000
11:35:00 AM	0.0	0.009	0.000
11:36:00 AM	0.0	0.006	0.000
11:37:00 AM	0.1	0.018	0.000
11:38:00 AM	0.0	0.010	0.000
11:39:00 AM	0.0	0.004	0.000
11:40:00 AM	0.1	-0.001	0.000
11:41:00 AM	0.1	0.001	0.000
11:42:00 AM	0.0	-0.002	0.000
11:43:00 AM	0.1	0.000	0.000
11:44:00 AM	0.0	-0.002	0.000
11:45:00 AM	0.1	-0.003	0.000
11:46:00 AM	0.1	-0.002	0.000
11:47:00 AM	0.0	-0.002	0.000
11:48:00 AM	0.1	-0.002	0.000
11:49:00 AM	0.1	-0.002	0.000
11:50:00 AM	0.0	-0.002	0.000
11:51:00 AM	0.1	-0.002	0.000
11:52:00 AM	0.0	-0.002	0.000
11:53:00 AM	0.0	-0.002	0.000
11:54:00 AM	0.1	-0.002	0.000
11:55:00 AM	0.0	-0.001	0.000
11:56:00 AM	0.1	-0.002	0.000
11:57:00 AM	0.0	-0.002	0.000
11:58:00 AM	0.1	-0.001	0.000
11:59:00 AM	0.1	-0.003	0.000
12:00:00 PM	0.1	-0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:01:00 PM	0.1	-0.003	0.000
12:02:00 PM	0.1	-0.003	0.000
12:03:00 PM	0.1	-0.003	0.000
12:04:00 PM	0.1	-0.003	0.000
12:05:00 PM	0.1	-0.002	0.000
12:06:00 PM	0.1	-0.002	0.000
12:07:00 PM	0.0	-0.003	0.000
12:08:00 PM	0.1	-0.003	0.000
12:09:00 PM	0.1	-0.003	0.000
12:10:00 PM	0.0	-0.003	0.000
12:11:00 PM	0.1	-0.003	0.000
12:12:00 PM	0.1	-0.003	0.000
12:13:00 PM	0.1	-0.003	0.000
12:14:00 PM	0.0	-0.002	0.000
12:15:00 PM	0.0	-0.003	0.000
12:16:00 PM	0.1	-0.003	0.000
12:17:00 PM	0.1	-0.003	0.000
12:18:00 PM	0.1	-0.003	0.000
12:19:00 PM	0.0	-0.003	0.000
12:20:00 PM	0.1	-0.003	0.000
12:21:00 PM	0.1	-0.003	0.000
12:22:00 PM	0.1	-0.003	0.000
12:23:00 PM	0.1	-0.003	0.000
12:24:00 PM	0.1	-0.003	0.000
12:25:00 PM	0.1	-0.002	0.000
12:26:00 PM	0.1	-0.002	0.000
12:27:00 PM	0.1	-0.003	0.000
12:28:00 PM	0.1	-0.003	0.000
12:29:00 PM	0.0	-0.003	0.000
12:30:00 PM	0.0	-0.003	0.000
12:31:00 PM	0.1	-0.002	0.000
12:32:00 PM	0.0	-0.002	0.000
12:33:00 PM	0.1	-0.002	0.000
12:34:00 PM	0.1	-0.004	0.000
12:35:00 PM	0.1	-0.003	0.000
12:36:00 PM	0.1	-0.003	0.000
12:37:00 PM	0.1	-0.003	0.000
12:38:00 PM	0.1	-0.003	0.000
12:39:00 PM	0.1	-0.001	0.000
12:40:00 PM	0.1	0.000	0.000
12:41:00 PM	0.2	0.000	0.000
12:42:00 PM	0.1	0.002	0.000
12:43:00 PM	0.1	-0.001	0.000
12:44:00 PM	0.0	0.001	0.000
12:45:00 PM	0.0	-0.001	0.000
12:46:00 PM	0.0	-0.002	0.000
12:47:00 PM	0.0	-0.001	0.000
12:48:00 PM	0.0	-0.003	0.000
12:49:00 PM	0.1	-0.003	0.000
12:50:00 PM	0.1	-0.003	0.000
12:51:00 PM	0.1	-0.002	0.000
12:52:00 PM	0.1	-0.001	0.000
12:53:00 PM	0.1	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:54:00 PM	0.1	0.006	0.000
12:55:00 PM	0.1	0.008	0.000
12:56:00 PM	0.1		0.000
12:57:00 PM	0.1		0.000
12:58:00 PM	0.1		0.000
12:59:00 PM	0.1		0.000
1:00:00 PM	0.1		0.000
1:02:00 PM	0.1	0.015	0.000
1:03:00 PM	0.1	0.012	0.000
1:04:00 PM	0.1	0.016	0.000
1:05:00 PM	0.1	0.014	0.000
1:06:00 PM	0.0	0.015	0.000
1:07:00 PM	0.0	0.011	0.000
1:08:00 PM	0.0	0.030	0.000
1:09:00 PM	0.1	0.020	0.000
1:10:00 PM	0.1	0.014	0.000
1:11:00 PM	0.1	0.013	0.000
1:12:00 PM	0.1	0.018	0.000
1:13:00 PM	0.1	0.015	0.000
1:14:00 PM	0.1	0.014	0.000
1:15:00 PM	0.1	0.013	0.000
1:16:00 PM	0.1	0.016	0.000
1:17:00 PM	0.1	0.017	0.000
1:18:00 PM	0.1	0.015	0.000
1:19:00 PM	0.1	0.018	0.000
1:20:00 PM	0.1	0.016	0.000
1:21:00 PM	0.1	0.012	0.000
1:22:00 PM	0.1	0.012	0.000
1:23:00 PM	0.2	0.014	0.000
1:24:00 PM	0.1	0.019	0.000
1:25:00 PM	0.1	0.014	0.000
1:26:00 PM	0.1	0.012	0.000
1:27:00 PM	0.1	0.012	0.000
1:28:00 PM	0.1	0.012	0.000
1:29:00 PM	0.1	0.012	0.000
1:30:00 PM	0.0	0.012	0.000
1:31:00 PM	0.0	0.012	0.000
1:32:00 PM	0.0	0.012	0.000
1:33:00 PM	0.1	0.017	0.000
1:34:00 PM	0.0	0.014	0.000
1:35:00 PM	0.1	0.010	0.000
1:36:00 PM	0.1	0.011	0.000
1:37:00 PM	0.1	0.012	0.000
1:38:00 PM	0.1	0.011	0.000
1:39:00 PM	0.1	0.011	0.000
1:40:00 PM	0.1	0.010	0.000
1:41:00 PM	0.1	0.010	0.000
1:42:00 PM	0.1	0.010	0.000
1:43:00 PM	0.1	0.010	0.000
1:44:00 PM	0.1	0.010	0.000
1:45:00 PM	0.1	0.010	0.000
1:46:00 PM	0.1	0.010	0.000
1:47:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:48:00 PM	0.1	0.010	0.000
1:49:00 PM	0.1	0.011	0.000
1:50:00 PM	0.1	0.009	0.000
1:51:00 PM	0.1	0.009	0.000
1:52:00 PM	0.1	0.009	0.000
1:53:00 PM	0.1	0.010	0.000
1:54:00 PM	0.1	0.009	0.000
1:55:00 PM	0.1	0.009	0.000
1:56:00 PM	0.1	0.009	0.000
1:57:00 PM	0.1	0.020	0.000
1:58:00 PM	0.1	0.066	0.000
1:59:00 PM	0.1	0.130	0.000
2:00:00 PM	0.1	0.069	0.000
2:01:00 PM	0.1	0.053	0.000
2:02:00 PM	0.1	0.058	0.000
2:03:00 PM	0.1	0.012	0.000
2:04:00 PM	0.1	0.008	0.000
2:05:00 PM	0.1	0.015	0.000
2:06:00 PM	0.1	0.017	0.000
2:07:00 PM	0.1	0.010	0.000
2:08:00 PM	0.1	0.008	0.000
2:09:00 PM	0.1	0.009	0.000
2:10:00 PM	0.1	0.009	0.000
2:11:00 PM	0.1	0.008	0.000
2:12:00 PM	0.1	0.008	0.000
2:13:00 PM	0.1	0.008	0.000
2:14:00 PM	0.1	0.009	0.000
2:15:00 PM	0.1	0.008	0.000
2:16:00 PM	0.1	0.008	0.000
2:17:00 PM	0.1	0.016	0.000
2:18:00 PM	0.1	0.012	0.000
2:19:00 PM	0.1	0.009	0.000
2:20:00 PM	0.1	0.008	0.000
2:21:00 PM	0.1	0.008	0.000
2:22:00 PM	0.1	0.008	0.000
2:23:00 PM	0.1	0.008	0.000
2:24:00 PM	0.2	0.007	0.000
2:25:00 PM	0.2	0.008	0.000
2:26:00 PM	0.1	0.008	0.000
2:27:00 PM	0.1	0.008	0.000
2:28:00 PM	0.1	0.008	0.000
2:29:00 PM	0.2	0.009	0.000
2:30:00 PM	0.2	0.008	0.000
2:31:00 PM	0.2	0.008	0.000
2:32:00 PM	0.2	0.008	0.000
2:33:00 PM	0.1	0.008	0.000
2:34:00 PM	0.5	0.007	0.000
2:35:00 PM	0.2	0.009	0.000
2:36:00 PM	0.2	0.008	0.000
2:37:00 PM	0.2	0.008	0.000
2:38:00 PM	0.2	0.009	0.000
2:39:00 PM	0.2	0.008	0.000
2:40:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:41:00 PM	0.2	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:19:00 AM	0.0		0.000
9:20:00 AM	0.0	0.018	0.000
9:21:00 AM	0.0	0.008	0.000
9:22:00 AM	0.0	0.017	0.000
9:23:00 AM	0.0	0.009	0.000
9:24:00 AM	0.0	0.008	0.000
9:25:00 AM	0.0	0.013	0.000
9:26:00 AM	0.0	0.010	0.000
9:27:00 AM	0.0	0.009	0.000
9:28:00 AM	0.0	0.009	0.000
9:29:00 AM	0.0	0.009	0.000
9:30:00 AM	0.0	0.009	0.000
9:31:00 AM	0.0	0.010	0.000
9:32:00 AM	0.0	0.010	0.000
9:33:00 AM	0.0	0.010	0.000
9:34:00 AM	0.0	0.011	0.000
9:35:00 AM	0.0	0.011	0.000
9:36:00 AM	0.0	0.009	0.000
9:37:00 AM	0.0	0.009	0.000
9:38:00 AM	0.0	0.009	0.000
9:39:00 AM	0.0	0.009	0.000
9:40:00 AM	0.0	0.009	0.000
9:41:00 AM	0.0	0.009	0.000
9:42:00 AM	0.0	0.009	0.000
9:43:00 AM	0.0	0.009	0.000
9:44:00 AM	0.0	0.009	0.000
9:45:00 AM	0.0	0.009	0.000
9:46:00 AM	0.0	0.009	0.000
9:47:00 AM	0.0	0.009	0.000
9:48:00 AM	0.0	0.009	0.000
9:49:00 AM	0.0	0.009	0.000
9:50:00 AM	0.0	0.008	0.000
9:51:00 AM	0.0	0.009	0.000
9:52:00 AM	0.0	0.009	0.000
9:53:00 AM	0.0	0.009	0.000
9:54:00 AM	0.0	0.009	0.000
9:55:00 AM	0.0	0.008	0.000
9:56:00 AM	0.0	0.009	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.010	0.000
9:59:00 AM	0.0	0.010	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.010	0.000
10:02:00 AM	0.0	0.009	0.000
10:03:00 AM	0.0	0.010	0.000
10:04:00 AM	0.0	0.009	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.009	0.000
10:07:00 AM	0.0	0.024	0.000
10:08:00 AM	0.0	0.014	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.008	0.000
10:13:00 AM	0.0	0.008	0.000
10:14:00 AM	0.0	0.008	0.000
10:15:00 AM	0.0	0.008	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.009	0.000
10:20:00 AM	0.0	0.008	0.000
10:21:00 AM	0.1	0.009	0.000
10:22:00 AM	0.1	0.010	0.000
10:23:00 AM	0.0	0.009	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.1	0.008	0.000
10:27:00 AM	0.1	0.008	0.000
10:28:00 AM	0.1	0.008	0.000
10:29:00 AM	0.1	0.007	0.000
10:30:00 AM	0.1	0.009	0.000
10:31:00 AM	0.1	0.010	0.000
10:32:00 AM	0.1	0.008	0.000
10:33:00 AM	0.1	0.007	0.000
10:34:00 AM	0.1	0.007	0.000
10:35:00 AM	0.1	0.007	0.000
10:36:00 AM	0.1	0.007	0.000
10:37:00 AM	0.1	0.007	0.000
10:38:00 AM	0.1	0.008	0.000
10:39:00 AM	0.1	0.007	0.000
10:40:00 AM	0.1	0.007	0.000
10:41:00 AM	0.1	0.006	0.000
10:42:00 AM	0.1	0.007	0.000
10:43:00 AM	0.1	0.006	0.000
10:44:00 AM	0.1	0.006	0.000
10:45:00 AM	0.1	0.006	0.000
10:46:00 AM	0.1	0.005	0.000
10:47:00 AM	0.1	0.005	0.000
10:48:00 AM	0.1	0.006	0.000
10:49:00 AM	0.1	0.006	0.000
10:50:00 AM	0.1	0.005	0.000
10:51:00 AM	0.1	0.006	0.000
10:52:00 AM	0.1	0.006	0.000
10:53:00 AM	0.1	0.006	0.000
10:54:00 AM	0.1	0.006	0.000
10:55:00 AM	0.1	0.006	0.000
10:56:00 AM	0.1	0.006	0.000
10:57:00 AM	0.1	0.008	0.000
10:58:00 AM	0.1	0.007	0.000
10:59:00 AM	0.1	0.006	0.000
11:00:00 AM	0.1	0.006	0.000
11:01:00 AM	0.1	0.006	0.000
11:02:00 AM	0.1	0.005	0.000
11:03:00 AM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:04:00 AM	0.1	0.006	0.000
11:05:00 AM	0.1	0.005	0.000
11:06:00 AM	0.1	0.007	0.000
11:07:00 AM	0.1	0.006	0.000
11:08:00 AM	0.1	0.007	0.000
11:09:00 AM	0.1	0.006	0.000
11:10:00 AM	0.1	0.009	0.000
11:11:00 AM	0.1	0.008	0.000
11:12:00 AM	0.1	0.006	0.000
11:13:00 AM	0.1	0.006	0.000
11:14:00 AM	0.1	0.006	0.000
11:15:00 AM	0.1	0.006	0.000
11:16:00 AM	0.1	0.006	0.000
11:17:00 AM	0.1	0.006	0.000
11:18:00 AM	0.1	0.006	0.000
11:19:00 AM	0.1	0.006	0.000
11:20:00 AM	0.1	0.006	0.000
11:21:00 AM	0.1	0.006	0.000
11:22:00 AM	0.1	0.006	0.000
11:23:00 AM	0.1	0.007	0.000
11:24:00 AM	0.1	0.009	0.000
11:25:00 AM	0.1	0.006	0.000
11:26:00 AM	0.1	0.006	0.000
11:27:00 AM	0.1	0.006	0.000
11:28:00 AM	0.1	0.006	0.000
11:29:00 AM	0.1	0.006	0.000
11:30:00 AM	0.1	0.005	0.000
11:31:00 AM	0.1	0.005	0.000
11:32:00 AM	0.1	0.005	0.000
11:33:00 AM	0.1	0.006	0.000
11:34:00 AM	0.1	0.006	0.000
11:35:00 AM	0.1	0.006	0.000
11:36:00 AM	0.1	0.007	0.000
11:37:00 AM	0.1	0.006	0.000
11:38:00 AM	0.1	0.006	0.000
11:39:00 AM	0.1	0.006	0.000
11:40:00 AM	0.1	0.005	0.000
11:41:00 AM	0.1	0.006	0.000
11:42:00 AM	0.1	0.005	0.000
11:43:00 AM	0.1	0.006	0.000
11:44:00 AM	0.1	0.006	0.000
11:45:00 AM	0.1	0.005	0.000
11:46:00 AM	0.1	0.006	0.000
11:47:00 AM	0.1	0.005	0.000
11:48:00 AM	0.1	0.005	0.000
11:49:00 AM	0.1	0.005	0.000
11:50:00 AM	0.1	0.005	0.000
11:51:00 AM	0.1	0.005	0.000
11:52:00 AM	0.1	0.006	0.000
11:53:00 AM	0.1	0.006	0.000
11:54:00 AM	0.1	0.005	0.000
11:55:00 AM	0.1	0.005	0.000
11:56:00 AM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:57:00 AM	0.1	0.005	0.000
11:58:00 AM	0.1	0.006	0.000
11:59:00 AM	0.1	0.005	0.000
12:00:00 PM	0.1	0.005	0.000
12:01:00 PM	0.1	0.005	0.000
12:02:00 PM	0.1	0.005	0.000
12:03:00 PM	0.1	0.005	0.000
12:04:00 PM	0.1	0.005	0.000
12:05:00 PM	0.1	0.005	0.000
12:06:00 PM	0.1	0.005	0.000
12:07:00 PM	0.1	0.005	0.000
12:08:00 PM	0.1	0.005	0.000
12:09:00 PM	0.1	0.005	0.000
12:10:00 PM	0.1	0.006	0.000
12:11:00 PM	0.1	0.005	0.000
12:12:00 PM	0.1	0.006	0.000
12:13:00 PM	0.1	0.006	0.000
12:14:00 PM	0.2	0.007	0.000
12:15:00 PM	0.1	0.006	0.000
12:16:00 PM	0.1	0.005	0.000
12:17:00 PM	0.1	0.005	0.000
12:18:00 PM	0.1	0.006	0.000
12:19:00 PM	0.1	0.005	0.000
12:20:00 PM	0.1	0.005	0.000
12:21:00 PM	0.1	0.005	0.000
12:22:00 PM	0.1	0.005	0.000
12:23:00 PM	0.1	0.005	0.000
12:24:00 PM	0.1	0.005	0.000
12:25:00 PM	0.2	0.005	0.000
12:26:00 PM	0.2	0.006	0.000
12:27:00 PM	0.1	0.005	0.000
12:28:00 PM	0.1	0.005	0.000
12:29:00 PM	0.1	0.004	0.000
12:30:00 PM	0.1	0.004	0.000
12:31:00 PM	0.1	0.005	0.000
12:32:00 PM	0.1	0.004	0.000
12:33:00 PM	0.1	0.004	0.000
12:34:00 PM	0.1	0.004	0.000
12:35:00 PM	0.1	0.004	0.000
12:36:00 PM	0.1	0.005	0.000
12:37:00 PM	0.1	0.005	0.000
12:38:00 PM	0.1	0.005	0.000
12:39:00 PM	0.1	0.005	0.000
12:40:00 PM	0.1	0.007	0.000
12:41:00 PM	0.1	0.007	0.000
12:42:00 PM	0.1	0.005	0.000
12:43:00 PM	0.1	0.005	0.000
12:44:00 PM	0.1	0.006	0.000
12:45:00 PM	0.1	0.008	0.000
12:46:00 PM	0.1	0.005	0.000
12:47:00 PM	0.1	0.007	0.000
12:48:00 PM	0.1	0.005	0.000
12:49:00 PM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:50:00 PM	0.1	0.006	0.000
12:51:00 PM	0.1	0.006	0.000
12:52:00 PM	0.1	0.007	0.000
12:53:00 PM	0.1	0.006	0.000
12:54:00 PM	0.1	0.014	0.000
12:55:00 PM	0.1	0.007	0.000
12:56:00 PM	0.1	0.016	0.000
12:57:00 PM	0.1	0.013	0.000
12:58:00 PM	0.1	0.005	0.000
12:59:00 PM	0.1	0.014	0.000
1:00:00 PM	0.1	0.005	0.000
1:01:00 PM	0.1	0.006	0.000
1:02:00 PM	0.1	0.007	0.000
1:03:00 PM	0.1	0.005	0.000
1:04:00 PM	0.1	0.006	0.000
1:05:00 PM	0.1	0.007	0.000
1:06:00 PM	0.1	0.007	0.000
1:07:00 PM	0.1	0.007	0.000
1:08:00 PM	0.1	0.009	0.000
1:09:00 PM	0.1	0.009	0.000
1:10:00 PM	0.1	0.008	0.000
1:11:00 PM	0.1	0.008	0.000
1:12:00 PM	0.1	0.007	0.000
1:13:00 PM	0.1	0.007	0.000
1:14:00 PM	0.1	0.007	0.000
1:15:00 PM	0.1	0.009	0.000
1:16:00 PM	0.1	0.012	0.000
1:17:00 PM	0.1	0.011	0.000
1:18:00 PM	0.1	0.012	0.000
1:19:00 PM	0.1	0.012	0.000
1:20:00 PM	0.1	0.011	0.000
1:21:00 PM	0.1	0.011	0.000
1:22:00 PM	0.2	0.009	0.000
1:23:00 PM	0.1	0.011	0.000
1:24:00 PM	0.1	0.013	0.000
1:25:00 PM	0.1	0.010	0.000
1:26:00 PM	0.1	0.009	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.010	0.000
1:29:00 PM	0.1	0.011	0.000
1:30:00 PM	0.1	0.010	0.000
1:31:00 PM	0.1	0.010	0.000
1:32:00 PM	0.1	0.015	0.000
1:33:00 PM	0.1	0.008	0.000
1:34:00 PM	0.1	0.009	0.000
1:35:00 PM	0.1	0.008	0.000
1:36:00 PM	0.2	0.008	0.000
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.2	0.009	0.000
1:39:00 PM	0.2	0.011	0.000
1:40:00 PM	0.2	0.009	0.000
1:41:00 PM	0.2	0.007	0.000
1:42:00 PM	0.2	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:43:00 PM	0.2	0.007	0.000
1:44:00 PM	0.2	0.008	0.000
1:45:00 PM	0.2	0.007	0.000
1:46:00 PM	0.2	0.007	0.000
1:47:00 PM	0.2	0.007	0.000
1:48:00 PM	0.2	0.006	0.000
1:49:00 PM	0.2	0.007	0.000
1:50:00 PM	0.2	0.006	0.000
1:51:00 PM	0.2	0.006	0.000
1:52:00 PM	0.2	0.008	0.000
1:53:00 PM	0.2	0.007	0.000
1:54:00 PM	0.2	0.007	0.000
1:55:00 PM	0.2	0.007	0.000
1:56:00 PM	0.2	0.006	0.000
1:57:00 PM	0.2	0.006	0.000
1:58:00 PM	0.2	0.008	0.000
1:59:00 PM	0.2	0.011	0.000
2:00:00 PM	0.2	0.035	0.000
2:01:00 PM	0.2	0.004	0.000
2:02:00 PM	0.2	0.004	0.000
2:03:00 PM	0.2	0.004	0.000
2:04:00 PM	0.2	0.004	0.000
2:05:00 PM	0.2	0.005	0.000
2:06:00 PM	0.2	0.004	0.000
2:07:00 PM	0.2	0.005	0.000
2:08:00 PM	0.2	0.004	0.000
2:09:00 PM	0.2	0.007	0.000
2:10:00 PM	0.3	0.005	0.000
2:11:00 PM	0.2	0.005	0.000
2:12:00 PM	0.2	0.004	0.000
2:13:00 PM	0.2	0.004	0.000
2:14:00 PM	0.2	0.004	0.000
2:15:00 PM	0.2	0.007	0.000
2:16:00 PM	0.3	0.007	0.000
2:17:00 PM	0.2	0.004	0.000
2:18:00 PM	0.3	0.004	0.000
2:19:00 PM	0.3	0.009	0.000
2:20:00 PM	0.3	0.007	0.000
2:21:00 PM	0.3	0.007	0.000
2:22:00 PM	0.3	0.008	0.000
2:23:00 PM	0.3	0.008	0.000
2:24:00 PM	0.3	0.004	0.000
2:25:00 PM	0.3	0.004	0.000
2:26:00 PM	0.3	0.004	0.000
2:27:00 PM	0.3	0.006	0.000
2:28:00 PM	0.3	0.004	0.000
2:29:00 PM	0.3	0.004	0.000
2:30:00 PM	0.4	0.004	0.000
2:31:00 PM	0.3	0.005	0.000
2:32:00 PM	0.3	0.004	0.000
2:33:00 PM	0.4	0.004	0.000
2:34:00 PM	0.3	0.005	0.000
2:35:00 PM	0.3	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 12, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:36:00 PM	0.3	0.004	0.000
2:37:00 PM	0.3	0.007	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~ 20 mph	Date:	3/15/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco excavating area # 8 and #9
utilizing the soil guzzler truck. All soils are removed from the guzzler truck and placed on the stockpile for disposal. Preferred screening all excavated soils with PID and mercury meter. Preferred collects endpoint sample CM-WM-EP-01 B(6') and submitted the same for analysis. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling. LIRR substations oversight called offsite for drug test, site closed down and AArco offsite at 13:30. Preferred dropping samples at the lab.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.009	0.000	0.4	0.012	0.000
Down Wind	0.0	0.008	0.000	0.0	0.014	0.000
Work Zone	0.0	0.007	0.000	0.0	0.044	0.000

Exceedances (Since Last Report): None

Problems Encountered: None.

Planned Activities for the Next Day/ Week:

- Aarco will continue backfill area #7/4.



View of upwind camp station.



Aarco removing soils from water meter pit via guzzler truck.

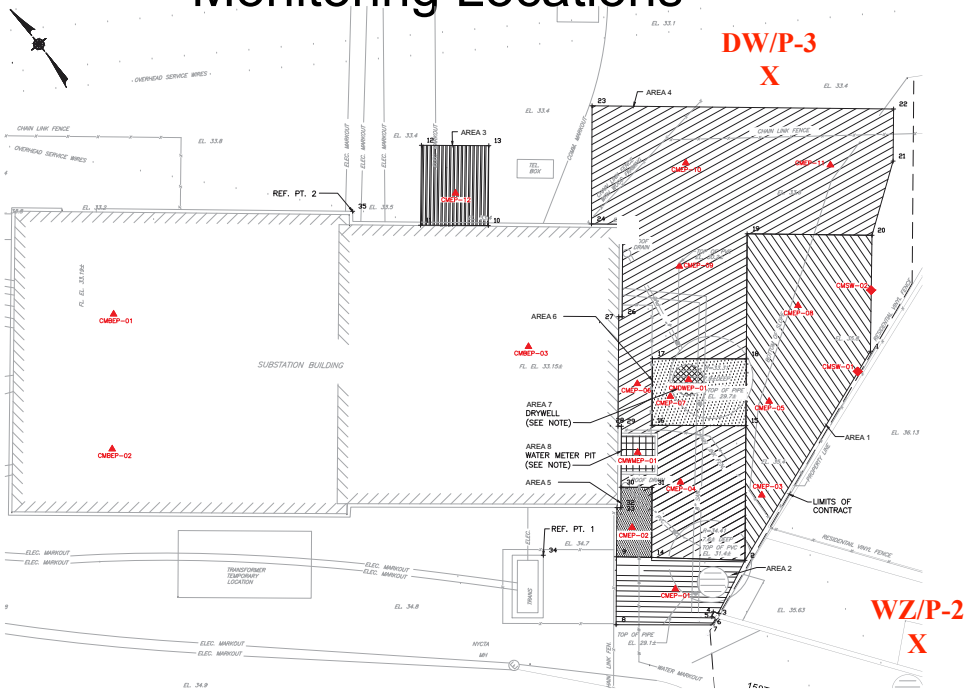


View of endpoint sample location.



Aarco removing soils from area #9.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:08:00 AM	0.0	0.0	0.000
9:09:00 AM	0.0	0.009	0.000
9:10:00 AM	0.0	0.009	0.000
9:11:00 AM	0.0	0.008	0.000
9:12:00 AM	0.0	0.008	0.000
9:13:00 AM	0.0	0.008	0.000
9:14:00 AM	0.0	0.008	0.000
9:15:00 AM	0.0	0.008	0.000
9:16:00 AM	0.0	0.008	0.000
9:17:00 AM	0.0	0.008	0.000
9:18:00 AM	0.0	0.008	0.000
9:19:00 AM	0.0	0.008	0.000
9:20:00 AM	0.0	0.008	0.000
9:21:00 AM	0.0	0.008	0.000
9:22:00 AM	0.0	0.008	0.000
9:23:00 AM	0.0	0.008	0.000
9:24:00 AM	0.0	0.008	0.000
9:25:00 AM	0.0	0.010	0.000
9:26:00 AM	0.0	0.008	0.000
9:27:00 AM	0.0	0.011	0.000
9:28:00 AM	0.0	0.009	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.009	0.000
9:31:00 AM	0.0	0.008	0.000
9:32:00 AM	0.0	0.008	0.000
9:33:00 AM	0.0	0.008	0.000
9:34:00 AM	0.0	0.008	0.000
9:35:00 AM	0.0	0.008	0.000
9:36:00 AM	0.0	0.009	0.000
9:37:00 AM	0.0	0.008	0.000
9:38:00 AM	0.0	0.008	0.000
9:39:00 AM	0.0	0.008	0.000
9:40:00 AM	0.0	0.008	0.000
9:41:00 AM	0.0	0.008	0.000
9:42:00 AM	0.0	0.008	0.000
9:43:00 AM	0.0	0.008	0.000
9:44:00 AM	0.0	0.009	0.000
9:45:00 AM	0.0	0.008	0.000
9:46:00 AM	0.0	0.008	0.000
9:47:00 AM	0.0	0.008	0.000
9:48:00 AM	0.0	0.008	0.000
9:49:00 AM	0.0	0.008	0.000
9:50:00 AM	0.0	0.008	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.008	0.000
9:54:00 AM	0.0	0.008	0.000
9:55:00 AM	0.0	0.008	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.009	0.000
10:02:00 AM	0.0	0.009	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.008	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.008	0.000
10:08:00 AM	0.0	0.008	0.000
10:09:00 AM	0.0	0.008	0.000
10:10:00 AM	0.0	0.008	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.008	0.000
10:13:00 AM	0.0	0.008	0.000
10:14:00 AM	0.0	0.009	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.009	0.000
10:17:00 AM	0.0	0.009	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.009	0.000
10:21:00 AM	0.0	0.008	0.000
10:22:00 AM	0.0	0.009	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.009	0.000
10:29:00 AM	0.0	0.009	0.000
10:30:00 AM	0.0	0.015	0.000
10:31:00 AM	0.0	0.009	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.008	0.000
10:36:00 AM	0.0	0.008	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.008	0.000
10:42:00 AM	0.0	0.008	0.000
10:43:00 AM	0.0	0.008	0.000
10:44:00 AM	0.0	0.008	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.008	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.009	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.009	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:53:00 AM	0.0	0.009	0.000
10:54:00 AM	0.0	0.009	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.009	0.000
10:58:00 AM	0.0	0.009	0.000
10:59:00 AM	0.1	0.009	0.000
11:00:00 AM	0.0	0.010	0.000
11:01:00 AM	0.1	0.010	0.000
11:02:00 AM	0.0	0.010	0.000
11:03:00 AM	0.0	0.009	0.000
11:04:00 AM	0.0	0.009	0.000
11:05:00 AM	0.0	0.010	0.000
11:06:00 AM	0.0	0.009	0.000
11:07:00 AM	0.0	0.009	0.000
11:08:00 AM	0.1	0.008	0.000
11:09:00 AM	0.0	0.008	0.000
11:10:00 AM	0.0	0.008	0.000
11:11:00 AM	0.0	0.009	0.000
11:12:00 AM	0.0	0.009	0.000
11:13:00 AM	0.0	0.009	0.000
11:14:00 AM	0.1	0.009	0.000
11:15:00 AM	0.0	0.009	0.000
11:16:00 AM	0.0	0.009	0.000
11:17:00 AM	0.0	0.009	0.000
11:18:00 AM	0.1	0.010	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.1	0.010	0.000
11:21:00 AM	0.0	0.010	0.000
11:22:00 AM	0.1	0.009	0.000
11:23:00 AM	0.1	0.010	0.000
11:24:00 AM	0.1	0.009	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.1	0.009	0.000
11:27:00 AM	0.1	0.008	0.000
11:28:00 AM	0.1	0.009	0.000
11:29:00 AM	0.1	0.010	0.000
11:30:00 AM	0.1	0.010	0.000
11:31:00 AM	0.1	0.009	0.000
11:32:00 AM	0.0	0.010	0.000
11:33:00 AM	0.1	0.009	0.000
11:34:00 AM	0.0	0.009	0.000
11:35:00 AM	0.1	0.009	0.000
11:36:00 AM	0.0	0.009	0.000
11:37:00 AM	0.1	0.008	0.000
11:38:00 AM	0.0	0.010	0.000
11:39:00 AM	0.0	0.010	0.000
11:40:00 AM	0.1	0.010	0.000
11:41:00 AM	0.1	0.011	0.000
11:42:00 AM	0.1	0.010	0.000
11:43:00 AM	0.1	0.009	0.000
11:44:00 AM	0.1	0.010	0.000
11:45:00 AM	0.0	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:46:00 AM	0.1	0.014	0.000
11:47:00 AM	0.1	0.011	0.000
11:48:00 AM	0.1	0.020	0.000
11:49:00 AM	0.0	0.010	0.000
11:50:00 AM	0.0	0.010	0.000
11:51:00 AM	0.1	0.009	0.000
11:52:00 AM	0.1	0.014	0.000
11:53:00 AM	0.1	0.008	0.000
11:54:00 AM	0.1	0.008	0.000
11:55:00 AM	0.1	0.013	0.000
11:56:00 AM	0.1	0.009	0.000
11:57:00 AM	0.2	0.013	0.000
11:58:00 AM	0.2	0.011	0.000
11:59:00 AM	0.1	0.009	0.000
12:00:00 PM	0.2	0.008	0.000
12:01:00 PM	0.2	0.009	0.000
12:02:00 PM	0.2	0.009	0.000
12:03:00 PM	0.2	0.008	0.000
12:04:00 PM	0.1	0.008	0.000
12:05:00 PM	0.2	0.009	0.000
12:06:00 PM	0.2	0.009	0.000
12:07:00 PM	0.2	0.009	0.000
12:08:00 PM	0.1	0.009	0.000
12:09:00 PM	0.1	0.010	0.000
12:10:00 PM	0.2	0.010	0.000
12:11:00 PM	0.2	0.011	0.000
12:12:00 PM	0.2	0.009	0.000
12:13:00 PM	0.1	0.010	0.000
12:14:00 PM	0.1	0.014	0.000
12:15:00 PM	0.2	0.014	0.000
12:16:00 PM	0.2	0.010	0.000
12:17:00 PM	0.2	0.011	0.000
12:18:00 PM	0.2	0.015	0.000
12:19:00 PM	0.2	0.011	0.000
12:20:00 PM	0.3	0.009	0.000
12:21:00 PM	0.3	0.009	0.000
12:22:00 PM	0.2	0.009	0.000
12:23:00 PM	0.3	0.009	0.000
12:24:00 PM	0.3	0.009	0.000
12:25:00 PM	0.2	0.015	0.000
12:26:00 PM	0.2	0.009	0.000
12:27:00 PM	0.2	0.008	0.000
12:28:00 PM	0.2	0.008	0.000
12:29:00 PM	0.3	0.008	0.000
12:30:00 PM	0.3	0.009	0.000
12:31:00 PM	0.2	0.009	0.000
12:32:00 PM	0.3	0.008	0.000
12:33:00 PM	0.3	0.016	0.000
12:34:00 PM	0.2	0.011	0.000
12:35:00 PM	0.3	0.009	0.000
12:36:00 PM	0.3	0.009	0.000
12:37:00 PM	0.2	0.011	0.000
12:38:00 PM	0.3	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:39:00 PM	0.3	0.008	0.000
12:40:00 PM	1.0	0.010	0.000
12:41:00 PM	0.4	0.016	0.000
12:42:00 PM	1.2	0.009	0.000
12:43:00 PM	0.4	0.009	0.000
12:44:00 PM	0.4	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:08:00 AM	0.0		0.000
9:09:00 AM	0.0		0.000
9:10:00 AM	0.0		0.000
9:11:00 AM	0.0		0.000
9:12:00 AM	0.0		0.000
9:13:00 AM	0.0		0.000
9:14:00 AM	0.0		0.000
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0		0.000
9:17:00 AM	0.0		0.000
9:18:00 AM	0.0		0.000
9:19:00 AM	0.0		0.000
9:20:00 AM	0.0	0.197	0.000
9:21:00 AM	0.0	0.008	0.000
9:22:00 AM	0.0	0.005	0.000
9:23:00 AM	0.0	0.005	0.000
9:24:00 AM	0.0	0.007	0.000
9:25:00 AM	0.0	0.006	0.000
9:26:00 AM	0.0	0.009	0.000
9:27:00 AM	0.0	0.017	0.000
9:28:00 AM	0.0	0.007	0.000
9:29:00 AM	0.0	0.009	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.015	0.000
9:32:00 AM	0.0	0.006	0.000
9:33:00 AM	0.0	0.006	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.004	0.000
9:36:00 AM	0.0	0.004	0.000
9:37:00 AM	0.0	0.003	0.000
9:38:00 AM	0.0	0.003	0.000
9:39:00 AM	0.0	0.004	0.000
9:40:00 AM	0.0	0.004	0.000
9:41:00 AM	0.0	0.003	0.000
9:42:00 AM	0.0	0.003	0.000
9:43:00 AM	0.0	0.004	0.000
9:44:00 AM	0.0	0.005	0.000
9:45:00 AM	0.0	0.003	0.000
9:46:00 AM	0.0	0.004	0.000
9:47:00 AM	0.0	0.021	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.004	0.000
9:50:00 AM	0.0	0.012	0.000
9:51:00 AM	0.0	0.004	0.000
9:52:00 AM	0.0	0.004	0.000
9:53:00 AM	0.0	0.003	0.000
9:54:00 AM	0.0	0.015	0.000
9:55:00 AM	0.0	0.003	0.000
9:56:00 AM	0.0	0.003	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.021	0.000
9:59:00 AM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:00:00 AM	0.0	0.003	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.006	0.000
10:03:00 AM	0.0	0.004	0.000
10:04:00 AM	0.0	0.011	0.000
10:05:00 AM	0.0	0.019	0.000
10:06:00 AM	0.0	0.004	0.000
10:07:00 AM	0.0	0.003	0.000
10:08:00 AM	0.0	0.003	0.000
10:09:00 AM	0.0	0.003	0.000
10:10:00 AM	0.0	0.004	0.000
10:11:00 AM	0.0	0.002	0.000
10:12:00 AM	0.0	0.032	0.000
10:13:00 AM	0.0	0.011	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.012	0.000
10:19:00 AM	0.0	0.004	0.000
10:20:00 AM	0.0	0.003	0.000
10:21:00 AM	0.0	0.003	0.000
10:22:00 AM	0.0	0.002	0.000
10:23:00 AM	0.0	0.002	0.000
10:24:00 AM	0.0	0.003	0.000
10:25:00 AM	0.0	0.003	0.000
10:26:00 AM	0.0	0.110	0.000
10:27:00 AM	0.0	0.063	0.000
10:28:00 AM	0.0	0.015	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.003	0.000
10:32:00 AM	0.0	0.002	0.000
10:33:00 AM	0.0	0.002	0.000
10:34:00 AM	0.0	0.003	0.000
10:35:00 AM	0.0	0.001	0.000
10:36:00 AM	0.0	0.002	0.000
10:37:00 AM	0.0	0.002	0.000
10:38:00 AM	0.0	0.002	0.000
10:39:00 AM	0.0	0.001	0.000
10:40:00 AM	0.0	0.001	0.000
10:41:00 AM	0.0	0.002	0.000
10:42:00 AM	0.0	0.002	0.000
10:43:00 AM	0.0	0.002	0.000
10:44:00 AM	0.0	0.002	0.000
10:45:00 AM	0.0	0.002	0.000
10:46:00 AM	0.0	0.002	0.000
10:47:00 AM	0.0	0.002	0.000
10:48:00 AM	0.0	0.004	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.003	0.000
10:51:00 AM	0.0	0.002	0.000
10:52:00 AM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:53:00 AM	0.0	0.002	0.000
10:54:00 AM	0.0	0.002	0.000
10:55:00 AM	0.0	0.001	0.000
10:56:00 AM	0.0	0.002	0.000
10:57:00 AM	0.0	0.002	0.000
10:58:00 AM	0.0	0.002	0.000
10:59:00 AM	0.0	0.002	0.000
11:00:00 AM	0.0	0.002	0.000
11:01:00 AM	0.0	0.003	0.000
11:02:00 AM	0.0	0.002	0.000
11:03:00 AM	0.0	0.002	0.000
11:04:00 AM	0.0	0.003	0.000
11:05:00 AM	0.0	0.004	0.000
11:06:00 AM	0.0	0.017	0.000
11:07:00 AM	0.0	0.002	0.000
11:08:00 AM	0.0	0.001	0.000
11:09:00 AM	0.0	0.001	0.000
11:10:00 AM	0.0	0.001	0.000
11:11:00 AM	0.0	0.001	0.000
11:12:00 AM	0.0	0.001	0.000
11:13:00 AM	0.0	0.024	0.000
11:14:00 AM	0.0	0.003	0.000
11:15:00 AM	0.0	0.003	0.000
11:16:00 AM	0.0	0.002	0.000
11:17:00 AM	0.0	0.002	0.000
11:18:00 AM	0.0	0.004	0.000
11:19:00 AM	0.0	0.003	0.000
11:20:00 AM	0.0	0.002	0.000
11:21:00 AM	0.0	0.002	0.000
11:22:00 AM	0.0	0.002	0.000
11:23:00 AM	0.0	0.002	0.000
11:24:00 AM	0.0	0.002	0.000
11:25:00 AM	0.0	0.001	0.000
11:26:00 AM	0.0	0.002	0.000
11:27:00 AM	0.0	0.002	0.000
11:28:00 AM	0.0	0.001	0.000
11:29:00 AM	0.0	0.003	0.000
11:30:00 AM	0.0	0.008	0.000
11:31:00 AM	0.0	0.007	0.000
11:32:00 AM	0.0	0.004	0.000
11:33:00 AM	0.0	0.005	0.000
11:34:00 AM	0.0	0.004	0.000
11:35:00 AM	0.0	0.005	0.000
11:36:00 AM	0.0	0.002	0.000
11:37:00 AM	0.0	0.001	0.000
11:38:00 AM	0.0	0.002	0.000
11:39:00 AM	0.0	0.004	0.000
11:40:00 AM	0.0	0.006	0.000
11:41:00 AM	0.0	0.007	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.011	0.000
11:48:00 AM	0.0	0.022	0.000
11:49:00 AM	0.0	0.010	0.000
11:50:00 AM	0.0	0.004	0.000
11:51:00 AM	0.0	0.014	0.000
11:52:00 AM	0.0	0.006	0.000
11:53:00 AM	0.0	0.001	0.000
11:54:00 AM	0.0	0.003	0.000
11:55:00 AM	0.0	0.022	0.000
11:56:00 AM	0.0	0.003	0.000
11:57:00 AM	0.0	0.007	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.003	0.000
12:00:00 PM	0.0	0.002	0.000
12:01:00 PM	0.0	0.048	0.000
12:02:00 PM	0.0	0.003	0.000
12:03:00 PM	0.0	0.003	0.000
12:04:00 PM	0.0	0.001	0.000
12:05:00 PM	0.0	0.002	0.000
12:06:00 PM	0.0	0.002	0.000
12:07:00 PM	0.0	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.003	0.000
12:11:00 PM	0.0	0.012	0.000
12:12:00 PM	0.0	0.003	0.000
12:13:00 PM	0.0	0.003	0.000
12:14:00 PM	0.0	0.003	0.000
12:15:00 PM	0.0	0.003	0.000
12:16:00 PM	0.0	0.003	0.000
12:17:00 PM	0.0	0.004	0.000
12:18:00 PM	0.0	0.010	0.000
12:19:00 PM	0.0	0.006	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.001	0.000
12:22:00 PM	0.0	0.005	0.000
12:23:00 PM	0.0	0.002	0.000
12:24:00 PM	0.0	0.002	0.000
12:25:00 PM	0.0	0.010	0.000
12:26:00 PM	0.0	0.001	0.000
12:27:00 PM	0.0	0.001	0.000
12:28:00 PM	0.0	0.001	0.000
12:29:00 PM	0.0	0.000	0.000
12:30:00 PM	0.0	0.001	0.000
12:31:00 PM	0.0	0.001	0.000
12:32:00 PM	0.0	0.002	0.000
12:33:00 PM	0.0	0.006	0.000
12:34:00 PM	0.0	0.007	0.000
12:35:00 PM	0.0	0.002	0.000
12:36:00 PM	0.0	0.008	0.000
12:37:00 PM	0.1	0.018	0.000
12:38:00 PM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:39:00 PM	0.0	0.004	0.000
12:40:00 PM	0.0	0.002	0.000
12:41:00 PM	0.0	0.003	0.000
12:42:00 PM	0.0	0.003	0.000
12:43:00 PM	0.0	0.003	0.000
12:44:00 PM	0.0	0.001	0.000
12:45:00 PM	0.0	0.002	0.000
12:46:00 PM	0.0	0.000	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:00:00 AM	0.0		0.000
10:01:00 AM	0.0		0.000
10:02:00 AM	0.0		0.000
10:03:00 AM	0.0		0.000
10:04:00 AM	0.0		0.000
10:05:00 AM	0.0		0.000
10:06:00 AM	0.0		0.000
10:07:00 AM	0.0		0.000
10:08:00 AM	0.0		0.000
10:09:00 AM	0.0		0.000
10:10:00 AM	0.0		0.000
10:11:00 AM	0.0		0.000
10:12:00 AM	0.0	0.028	0.000
10:13:00 AM	0.0	0.010	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.009	0.000
10:16:00 AM	0.0	0.010	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.009	0.000
10:19:00 AM	0.0	0.018	0.000
10:20:00 AM	0.0	0.010	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.008	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.008	0.000
10:31:00 AM	0.0	0.009	0.000
10:32:00 AM	0.0	0.008	0.000
10:33:00 AM	0.0	0.008	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.007	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.008	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.008	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.008	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.009	0.000
10:50:00 AM	0.0	0.009	0.000
10:51:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.008	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.007	0.000
10:57:00 AM	0.0	0.009	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.008	0.000
11:00:00 AM	0.0	0.009	0.000
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.009	0.000
11:03:00 AM	0.0	0.008	0.000
11:04:00 AM	0.0	0.009	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.008	0.000
11:08:00 AM	0.0	0.008	0.000
11:09:00 AM	0.0	0.008	0.000
11:10:00 AM	0.0	0.007	0.000
11:11:00 AM	0.0	0.008	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.008	0.000
11:14:00 AM	0.0	0.008	0.000
11:15:00 AM	0.0	0.008	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.008	0.000
11:18:00 AM	0.0	0.009	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.0	0.009	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.008	0.000
11:23:00 AM	0.0	0.008	0.000
11:24:00 AM	0.0	0.008	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.008	0.000
11:27:00 AM	0.0	0.009	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.010	0.000
11:30:00 AM	0.0	0.009	0.000
11:31:00 AM	0.0	0.010	0.000
11:32:00 AM	0.0	0.008	0.000
11:33:00 AM	0.0	0.008	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.008	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.007	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.010	0.000
11:40:00 AM	0.0	0.010	0.000
11:41:00 AM	0.0	0.010	0.000
11:42:00 AM	0.0	0.009	0.000
11:43:00 AM	0.0	0.008	0.000
11:44:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:45:00 AM	0.0	0.008	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.008	0.000
11:49:00 AM	0.0	0.010	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.007	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.007	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.007	0.000
11:56:00 AM	0.0	0.007	0.000
11:57:00 AM	0.0	0.007	0.000
11:58:00 AM	0.0	0.007	0.000
11:59:00 AM	0.0	0.007	0.000
12:00:00 PM	0.0	0.007	0.000
12:01:00 PM	0.0	0.007	0.000
12:02:00 PM	0.0	0.007	0.000
12:03:00 PM	0.0	0.006	0.000
12:04:00 PM	0.0	0.007	0.000
12:05:00 PM	0.0	0.007	0.000
12:06:00 PM	0.0	0.008	0.000
12:07:00 PM	0.0	0.008	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.009	0.000
12:11:00 PM	0.0	0.008	0.000
12:12:00 PM	0.0	0.008	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.010	0.000
12:15:00 PM	0.0	0.009	0.000
12:16:00 PM	0.0	0.009	0.000
12:17:00 PM	0.0	0.009	0.000
12:18:00 PM	0.0	0.011	0.000
12:19:00 PM	0.0	0.016	0.000
12:20:00 PM	0.0	0.009	0.000
12:21:00 PM	0.0	0.009	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.008	0.000
12:24:00 PM	0.0	0.008	0.000
12:25:00 PM	0.0	0.008	0.000
12:26:00 PM	0.0	0.007	0.000
12:27:00 PM	0.0	0.007	0.000
12:28:00 PM	0.0	0.007	0.000
12:29:00 PM	0.0	0.007	0.000
12:30:00 PM	0.0	0.007	0.000
12:31:00 PM	0.0	0.007	0.000
12:32:00 PM	0.0	0.008	0.000
12:33:00 PM	0.0	0.008	0.000
12:34:00 PM	0.0	0.007	0.000
12:35:00 PM	0.0	0.007	0.000
12:36:00 PM	0.0	0.007	0.000
12:37:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 15, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:38:00 PM	0.0	0.011	0.000
12:39:00 PM	0.0	0.007	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From SW ~ 6 mph	Date:	3/16/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:05 am. Aarco continues backfilling areas #4 and #7 with sand in ten (10) inch lifts. All lifts are compacted utilizing a gas-powered compactor. Skytesting is conducting compaction testing on all lifts ensuring greater than 95% compaction in all lifts. Aarco reconnecting sanitary sewer piping within area #7 excavation. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high-risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.011	0.000	0.0	0.016	0.000
Down Wind	0.0	0.015	0.000	0.0	0.054	0.000
Work Zone	0.0	0.004	0.000	0.1	0.008	0.000

Exceedances (Since Last Report): None

Problems Encountered: Downwind dust monitor did not start recording data due to communication issue. Data restored at 10:08.

Planned Activities for the Next Day/ Week:

- Aarco will continue excavating in area #4



Aarco backfilling area #4 and #7.



Aarco compacting each 10 inch lift with a gas compactor.

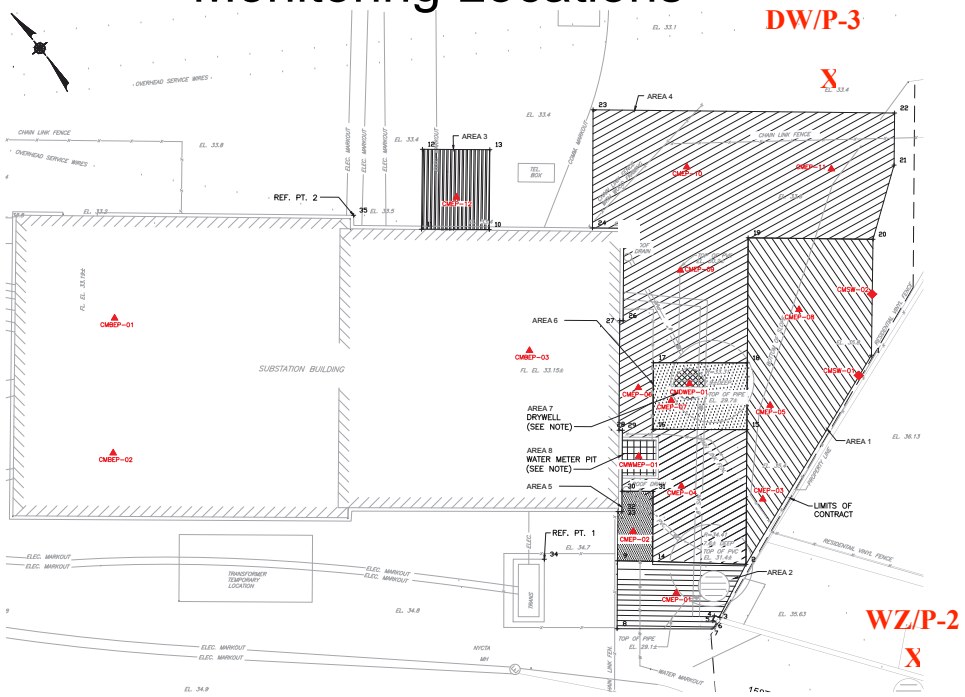


Aaarco removing digging box panels from area #7.



Skytesting conducting compaction testing.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:02:00 AM	0.0		0.000
9:03:00 AM	0.0		0.000
9:04:00 AM	0.0	0.035	0.000
9:05:00 AM	0.0	0.013	0.000
9:06:00 AM	0.0	0.015	0.000
9:07:00 AM	0.0	0.013	0.000
9:08:00 AM	0.0	0.010	0.000
9:09:00 AM	0.0	0.009	0.000
9:10:00 AM	0.0	0.009	0.000
9:11:00 AM	0.0	0.009	0.000
9:12:00 AM	0.0	0.009	0.000
9:13:00 AM	0.0	0.010	0.000
9:14:00 AM	0.0	0.015	0.000
9:15:00 AM	0.0	0.011	0.000
9:16:00 AM	0.0	0.009	0.000
9:17:00 AM	0.0	0.009	0.000
9:18:00 AM	0.0	0.012	0.000
9:19:00 AM	0.0	0.011	0.000
9:20:00 AM	0.0	0.010	0.000
9:21:00 AM	0.0	0.010	0.000
9:22:00 AM	0.0	0.010	0.000
9:23:00 AM	0.0	0.010	0.000
9:24:00 AM	0.0	0.012	0.000
9:25:00 AM	0.0	0.017	0.000
9:26:00 AM	0.0	0.011	0.000
9:27:00 AM	0.0	0.031	0.000
9:28:00 AM	0.0	0.041	0.000
9:29:00 AM	0.0	0.010	0.000
9:30:00 AM	0.0	0.018	0.000
9:31:00 AM	0.0	0.022	0.000
9:32:00 AM	0.0	0.017	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.009	0.000
9:35:00 AM	0.0	0.010	0.000
9:36:00 AM	0.0	0.012	0.000
9:37:00 AM	0.0	0.011	0.000
9:38:00 AM	0.0	0.010	0.000
9:39:00 AM	0.0	0.009	0.000
9:40:00 AM	0.0	0.010	0.000
9:41:00 AM	0.0	0.010	0.000
9:42:00 AM	0.0	0.010	0.000
9:43:00 AM	0.0	0.009	0.000
9:44:00 AM	0.0	0.009	0.000
9:45:00 AM	0.0	0.009	0.000
9:46:00 AM	0.0	0.009	0.000
9:47:00 AM	0.0	0.010	0.000
9:48:00 AM	0.0	0.010	0.000
9:49:00 AM	0.0	0.010	0.000
9:50:00 AM	0.0	0.014	0.000
9:51:00 AM	0.0	0.010	0.000
9:52:00 AM	0.0	0.010	0.000
9:53:00 AM	0.0	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:54:00 AM	0.0	0.010	0.000
9:55:00 AM	0.0	0.009	0.000
9:56:00 AM	0.0	0.010	0.000
9:57:00 AM	0.0	0.009	0.000
9:58:00 AM	0.0	0.010	0.000
9:59:00 AM	0.0	0.010	0.000
10:00:00 AM	0.0	0.011	0.000
10:01:00 AM	0.0	0.010	0.000
10:02:00 AM	0.0	0.010	0.000
10:03:00 AM	0.0	0.010	0.000
10:04:00 AM	0.0	0.027	0.000
10:05:00 AM	0.0	0.013	0.000
10:06:00 AM	0.0	0.017	0.000
10:07:00 AM	0.0	0.020	0.000
10:08:00 AM	0.0	0.010	0.000
10:09:00 AM	0.0	0.015	0.000
10:10:00 AM	0.0	0.011	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.014	0.000
10:13:00 AM	0.0	0.016	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.012	0.000
10:17:00 AM	0.0	0.012	0.000
10:18:00 AM	0.0	0.010	0.000
10:19:00 AM	0.0	0.010	0.000
10:20:00 AM	0.0	0.010	0.000
10:21:00 AM	0.0	0.011	0.000
10:22:00 AM	0.0	0.012	0.000
10:23:00 AM	0.0	0.011	0.000
10:24:00 AM	0.0	0.011	0.000
10:25:00 AM	0.0	0.012	0.000
10:26:00 AM	0.0	0.011	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.0	0.010	0.000
10:29:00 AM	0.0	0.010	0.000
10:30:00 AM	0.0	0.011	0.000
10:31:00 AM	0.0	0.012	0.000
10:32:00 AM	0.0	0.015	0.000
10:33:00 AM	0.0	0.012	0.000
10:34:00 AM	0.0	0.010	0.000
10:35:00 AM	0.0	0.011	0.000
10:36:00 AM	0.0	0.017	0.000
10:37:00 AM	0.0	0.027	0.000
10:38:00 AM	0.0	0.015	0.000
10:39:00 AM	0.0	0.011	0.000
10:40:00 AM	0.0	0.012	0.000
10:41:00 AM	0.0	0.014	0.000
10:42:00 AM	0.0	0.014	0.000
10:43:00 AM	0.0	0.013	0.000
10:44:00 AM	0.0	0.013	0.000
10:45:00 AM	0.0	0.012	0.000
10:46:00 AM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:47:00 AM	0.0	0.013	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.011	0.000
10:50:00 AM	0.0	0.012	0.000
10:51:00 AM	0.0	0.011	0.000
10:52:00 AM	0.0	0.010	0.000
10:53:00 AM	0.0	0.012	0.000
10:54:00 AM	0.0	0.013	0.000
10:55:00 AM	0.0	0.011	0.000
10:56:00 AM	0.0	0.011	0.000
10:57:00 AM	0.0	0.011	0.000
10:58:00 AM	0.0	0.011	0.000
10:59:00 AM	0.0	0.010	0.000
11:00:00 AM	0.0	0.010	0.000
11:01:00 AM	0.0	0.010	0.000
11:02:00 AM	0.0	0.018	0.000
11:03:00 AM	0.0	0.015	0.000
11:04:00 AM	0.0	0.011	0.000
11:05:00 AM	0.0	0.013	0.000
11:06:00 AM	0.0	0.014	0.000
11:07:00 AM	0.0	0.018	0.000
11:08:00 AM	0.0	0.013	0.000
11:09:00 AM	0.0	0.011	0.000
11:10:00 AM	0.0	0.010	0.000
11:11:00 AM	0.0	0.010	0.000
11:12:00 AM	0.0	0.010	0.000
11:13:00 AM	0.0	0.012	0.000
11:14:00 AM	0.0	0.014	0.000
11:15:00 AM	0.0	0.010	0.000
11:16:00 AM	0.0	0.011	0.000
11:17:00 AM	0.0	0.012	0.000
11:18:00 AM	0.0	0.010	0.000
11:19:00 AM	0.0	0.012	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.019	0.000
11:22:00 AM	0.0	0.021	0.000
11:23:00 AM	0.0	0.009	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.008	0.000
11:26:00 AM	0.0	0.008	0.000
11:27:00 AM	0.0	0.008	0.000
11:28:00 AM	0.0	0.008	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.008	0.000
11:31:00 AM	0.0	0.008	0.000
11:32:00 AM	0.0	0.009	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.008	0.000
11:35:00 AM	0.0	0.008	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.009	0.000
11:38:00 AM	0.0	0.008	0.000
11:39:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.009	0.000
11:43:00 AM	0.0	0.009	0.000
11:44:00 AM	0.0	0.014	0.000
11:45:00 AM	0.0	0.011	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.008	0.000
11:48:00 AM	0.0	0.008	0.000
11:49:00 AM	0.0	0.008	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.010	0.000
11:54:00 AM	0.0	0.010	0.000
11:55:00 AM	0.0	0.010	0.000
11:56:00 AM	0.0	0.011	0.000
11:57:00 AM	0.0	0.014	0.000
11:58:00 AM	0.0	0.012	0.000
11:59:00 AM	0.0	0.011	0.000
12:00:00 PM	0.0	0.011	0.000
12:01:00 PM	0.0	0.011	0.000
12:02:00 PM	0.0	0.013	0.000
12:03:00 PM	0.0	0.010	0.000
12:04:00 PM	0.0	0.009	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.009	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.008	0.000
12:12:00 PM	0.0	0.008	0.000
12:13:00 PM	0.0	0.009	0.000
12:14:00 PM	0.0	0.009	0.000
12:15:00 PM	0.0	0.010	0.000
12:16:00 PM	0.0	0.010	0.000
12:17:00 PM	0.0	0.010	0.000
12:18:00 PM	0.0	0.009	0.000
12:19:00 PM	0.0	0.008	0.000
12:20:00 PM	0.0	0.009	0.000
12:21:00 PM	0.0	0.009	0.000
12:22:00 PM	0.0	0.011	0.000
12:23:00 PM	0.0	0.009	0.000
12:24:00 PM	0.0	0.009	0.000
12:25:00 PM	0.0	0.010	0.000
12:26:00 PM	0.0	0.008	0.000
12:27:00 PM	0.0	0.008	0.000
12:28:00 PM	0.0	0.008	0.000
12:29:00 PM	0.0	0.008	0.000
12:30:00 PM	0.0	0.009	0.000
12:31:00 PM	0.0	0.009	0.000
12:32:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:33:00 PM	0.0	0.009	0.000
12:34:00 PM	0.0	0.020	0.000
12:35:00 PM	0.0	0.019	0.000
12:36:00 PM	0.0	0.013	0.000
12:37:00 PM	0.0	0.014	0.000
12:38:00 PM	0.0	0.013	0.000
12:39:00 PM	0.0	0.011	0.000
12:40:00 PM	0.0	0.008	0.000
12:41:00 PM	0.0	0.009	0.000
12:42:00 PM	0.0	0.010	0.000
12:43:00 PM	0.0	0.008	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.008	0.000
12:46:00 PM	0.0	0.007	0.000
12:47:00 PM	0.0	0.008	0.000
12:48:00 PM	0.0	0.008	0.000
12:49:00 PM	0.0	0.009	0.000
12:50:00 PM	0.0	0.009	0.000
12:51:00 PM	0.0	0.009	0.000
12:52:00 PM	0.0	0.009	0.000
12:53:00 PM	0.0	0.009	0.000
12:54:00 PM	0.0	0.009	0.000
12:55:00 PM	0.0	0.009	0.000
12:56:00 PM	0.0	0.008	0.000
12:57:00 PM	0.0	0.008	0.000
12:58:00 PM	0.0	0.008	0.000
12:59:00 PM	0.0	0.008	0.000
1:00:00 PM	0.0	0.008	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.0	0.007	0.000
1:03:00 PM	0.0	0.008	0.000
1:04:00 PM	0.0	0.008	0.000
1:05:00 PM	0.0	0.010	0.000
1:06:00 PM	0.0	0.010	0.000
1:07:00 PM	0.0	0.009	0.000
1:08:00 PM	0.0	0.007	0.000
1:09:00 PM	0.0	0.008	0.000
1:10:00 PM	0.0	0.008	0.000
1:11:00 PM	0.0	0.008	0.000
1:12:00 PM	0.0	0.008	0.000
1:13:00 PM	0.0	0.007	0.000
1:14:00 PM	0.0	0.007	0.000
1:15:00 PM	0.0	0.007	0.000
1:16:00 PM	0.0	0.007	0.000
1:17:00 PM	0.0	0.010	0.000
1:18:00 PM	0.0	0.011	0.000
1:19:00 PM	0.0	0.008	0.000
1:20:00 PM	0.0	0.008	0.000
1:21:00 PM	0.0	0.008	0.000
1:22:00 PM	0.0	0.009	0.000
1:23:00 PM	0.0	0.008	0.000
1:24:00 PM	0.0	0.008	0.000
1:25:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:26:00 PM	0.0	0.007	0.000
1:27:00 PM	0.0	0.007	0.000
1:28:00 PM	0.0	0.007	0.000
1:29:00 PM	0.0	0.009	0.000
1:30:00 PM	0.0	0.017	0.000
1:31:00 PM	0.4	0.017	0.000
1:32:00 PM	0.0	0.016	0.000
1:33:00 PM	0.0	0.010	0.000
1:34:00 PM	0.0	0.012	0.000
1:35:00 PM	0.0	0.011	0.000
1:36:00 PM	0.0	0.008	0.000
1:37:00 PM	0.0	0.010	0.000
1:38:00 PM	0.0	0.014	0.000
1:39:00 PM	0.0	0.024	0.000
1:40:00 PM	0.0	0.011	0.000
1:41:00 PM	0.0	0.007	0.000
1:42:00 PM	0.0	0.013	0.000
1:43:00 PM	0.0	0.014	0.000
1:44:00 PM	0.0	0.010	0.000
1:45:00 PM	0.0	0.009	0.000
1:46:00 PM	0.0	0.012	0.000
1:47:00 PM	0.0	0.009	0.000
1:48:00 PM	0.0	0.013	0.000
1:49:00 PM	0.0	0.016	0.000
1:50:00 PM	0.0	0.009	0.000
1:51:00 PM	0.0	0.009	0.000
1:52:00 PM	0.0	0.009	0.000
1:53:00 PM	0.0	0.010	0.000
1:54:00 PM	0.0	0.013	0.000
1:55:00 PM	0.0	0.011	0.000
1:56:00 PM	0.0	0.014	0.000
1:57:00 PM	0.0	0.019	0.000
1:58:00 PM	0.0	0.015	0.000
1:59:00 PM	0.0	0.016	0.000
2:00:00 PM	0.0	0.018	0.000
2:01:00 PM	0.0	0.019	0.000
2:02:00 PM	0.0	0.014	0.000
2:03:00 PM	0.0	0.041	0.000
2:04:00 PM	0.0	0.031	0.000
2:05:00 PM	0.0	0.146	0.000
2:06:00 PM	0.0	0.088	0.000
2:07:00 PM	0.0	0.084	0.000
2:08:00 PM	0.1	0.020	0.000
2:09:00 PM	0.1	0.124	0.000
2:10:00 PM	0.0	0.011	0.000
2:11:00 PM	0.0	0.009	0.000
2:12:00 PM	0.0	0.008	0.000
2:13:00 PM	0.0	0.008	0.000
2:14:00 PM	0.0	0.008	0.000
2:15:00 PM	0.0	0.008	0.000
2:16:00 PM	0.1	0.009	0.000
2:17:00 PM	0.0	0.008	0.000
2:18:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:19:00 PM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:14:00 AM	0.0		0.000
9:15:00 AM	0.0	0.017	0.000
9:16:00 AM	0.0	0.009	0.000
9:17:00 AM	0.0	0.008	0.000
9:18:00 AM	0.0	0.008	0.000
9:19:00 AM	0.0	0.008	0.000
9:20:00 AM	0.0	0.008	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.007	0.000
9:23:00 AM	0.0	0.007	0.000
9:24:00 AM	0.0	0.007	0.000
9:25:00 AM	0.0	0.010	0.000
9:26:00 AM	0.0	0.007	0.000
9:27:00 AM	0.0	0.007	0.000
9:28:00 AM	0.0	0.007	0.000
9:29:00 AM	0.0	0.007	0.000
9:30:00 AM	0.0	0.008	0.000
9:31:00 AM	0.0	0.007	0.000
9:32:00 AM	0.0	0.008	0.000
9:33:00 AM	0.0	0.008	0.000
9:34:00 AM	0.0	0.009	0.000
9:35:00 AM	0.0	0.011	0.000
9:36:00 AM	0.0	0.008	0.000
9:37:00 AM	0.0	0.007	0.000
9:38:00 AM	0.0	0.007	0.000
9:39:00 AM	0.0	0.007	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.0	0.006	0.000
9:44:00 AM	0.0	0.006	0.000
9:45:00 AM	0.0	0.006	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.007	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.009	0.000
9:51:00 AM	0.0	0.007	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.007	0.000
9:54:00 AM	0.0	0.007	0.000
9:55:00 AM	0.0	0.006	0.000
9:56:00 AM	0.0	0.006	0.000
9:57:00 AM	0.0	0.006	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.007	0.000
10:00:00 AM	0.0	0.006	0.000
10:01:00 AM	0.0	0.006	0.000
10:02:00 AM	0.0	0.012	0.000
10:03:00 AM	0.0	0.006	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:06:00 AM	0.0	0.006	0.000
10:07:00 AM	0.0	0.006	0.000
10:08:00 AM	0.0	0.006	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.006	0.000
10:11:00 AM	0.0	0.006	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.010	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.005	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.005	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.006	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.006	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.006	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.006	0.000
10:36:00 AM	0.0	0.006	0.000
10:37:00 AM	0.0	0.006	0.000
10:38:00 AM	0.0	0.006	0.000
10:39:00 AM	0.0	0.006	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.006	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.006	0.000
10:46:00 AM	0.0	0.006	0.000
10:47:00 AM	0.0	0.006	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.006	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:59:00 AM	0.0	0.006	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.008	0.000
11:03:00 AM	0.0	0.006	0.000
11:04:00 AM	0.0	0.005	0.000
11:05:00 AM	0.0	0.005	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.009	0.000
11:08:00 AM	0.0	0.011	0.000
11:09:00 AM	0.0	0.004	0.000
11:10:00 AM	0.0	0.004	0.000
11:11:00 AM	0.0	0.004	0.000
11:12:00 AM	0.0	0.004	0.000
11:13:00 AM	0.0	0.004	0.000
11:14:00 AM	0.0	0.004	0.000
11:15:00 AM	0.0	0.004	0.000
11:16:00 AM	0.0	0.004	0.000
11:17:00 AM	0.0	0.003	0.000
11:18:00 AM	0.0	0.003	0.000
11:19:00 AM	0.0	0.004	0.000
11:20:00 AM	0.0	0.003	0.000
11:21:00 AM	0.0	0.004	0.000
11:22:00 AM	0.0	0.003	0.000
11:23:00 AM	0.0	0.003	0.000
11:24:00 AM	0.0	0.003	0.000
11:25:00 AM	0.0	0.003	0.000
11:26:00 AM	0.0	0.003	0.000
11:27:00 AM	0.0	0.003	0.000
11:28:00 AM	0.0	0.003	0.000
11:29:00 AM	0.0	0.003	0.000
11:30:00 AM	0.0	0.003	0.000
11:31:00 AM	0.0	0.003	0.000
11:32:00 AM	0.0	0.003	0.000
11:33:00 AM	0.0	0.003	0.000
11:34:00 AM	0.0	0.003	0.000
11:35:00 AM	0.0	0.003	0.000
11:36:00 AM	0.0	0.003	0.000
11:37:00 AM	0.0	0.003	0.000
11:38:00 AM	0.0	0.002	0.000
11:39:00 AM	0.0	0.003	0.000
11:40:00 AM	0.0	0.002	0.000
11:41:00 AM	0.0	0.002	0.000
11:42:00 AM	0.0	0.002	0.000
11:43:00 AM	0.0	0.003	0.000
11:44:00 AM	0.0	0.003	0.000
11:45:00 AM	0.0	0.002	0.000
11:46:00 AM	0.0	0.002	0.000
11:47:00 AM	0.0	0.002	0.000
11:48:00 AM	0.0	0.002	0.000
11:49:00 AM	0.0	0.002	0.000
11:50:00 AM	0.0	0.002	0.000
11:51:00 AM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:52:00 AM	0.0	0.002	0.000
11:53:00 AM	0.0	0.003	0.000
11:54:00 AM	0.0	0.003	0.000
11:55:00 AM	0.0	0.003	0.000
11:56:00 AM	0.0	0.004	0.000
11:57:00 AM	0.0	0.006	0.000
11:58:00 AM	0.1	0.008	0.000
11:59:00 AM	0.0	0.005	0.000
12:00:00 PM	0.0	0.004	0.000
12:01:00 PM	0.0	0.004	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.003	0.000
12:04:00 PM	0.0	0.002	0.000
12:05:00 PM	0.0	0.002	0.000
12:06:00 PM	0.0	0.002	0.000
12:07:00 PM	0.0	0.002	0.000
12:08:00 PM	0.0	0.002	0.000
12:09:00 PM	0.0	0.002	0.000
12:10:00 PM	0.0	0.002	0.000
12:11:00 PM	0.0	0.002	0.000
12:12:00 PM	0.0	0.002	0.000
12:13:00 PM	0.0	0.002	0.000
12:14:00 PM	0.0	0.002	0.000
12:15:00 PM	0.0	0.003	0.000
12:16:00 PM	0.0	0.003	0.000
12:17:00 PM	0.0	0.003	0.000
12:18:00 PM	0.0	0.002	0.000
12:19:00 PM	0.0	0.001	0.000
12:20:00 PM	0.0	0.002	0.000
12:21:00 PM	0.0	0.002	0.000
12:22:00 PM	0.0	0.003	0.000
12:23:00 PM	0.0	0.002	0.000
12:24:00 PM	0.0	0.002	0.000
12:25:00 PM	0.0	0.003	0.000
12:26:00 PM	0.0	0.002	0.000
12:27:00 PM	0.0	0.002	0.000
12:28:00 PM	0.0	0.001	0.000
12:29:00 PM	0.0	0.001	0.000
12:30:00 PM	0.0	0.002	0.000
12:31:00 PM	0.0	0.002	0.000
12:32:00 PM	0.0	0.001	0.000
12:33:00 PM	0.0	0.002	0.000
12:34:00 PM	0.0	0.001	0.000
12:35:00 PM	0.0	0.001	0.000
12:36:00 PM	0.0	0.007	0.000
12:37:00 PM	0.0	0.006	0.000
12:38:00 PM	0.0	0.006	0.000
12:39:00 PM	0.0	0.006	0.000
12:40:00 PM	0.0	0.003	0.000
12:41:00 PM	0.0	0.002	0.000
12:42:00 PM	0.0	0.002	0.000
12:43:00 PM	0.0	0.002	0.000
12:44:00 PM	0.0	0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:45:00 PM	0.0	0.001	0.000
12:46:00 PM	0.0	0.001	0.000
12:47:00 PM	0.0	0.001	0.000
12:48:00 PM	0.0	0.001	0.000
12:49:00 PM	0.0	0.002	0.000
12:50:00 PM	0.0	0.002	0.000
12:51:00 PM	0.0	0.002	0.000
12:52:00 PM	0.0	0.001	0.000
12:53:00 PM	0.0	0.002	0.000
12:54:00 PM	0.0	0.001	0.000
12:55:00 PM	0.0	0.002	0.000
12:56:00 PM	0.0	0.002	0.000
12:57:00 PM	0.0	0.002	0.000
12:58:00 PM	0.0	0.002	0.000
12:59:00 PM	0.0	0.002	0.000
1:00:00 PM	0.0	0.002	0.000
1:01:00 PM	0.0	0.001	0.000
1:02:00 PM	0.0	0.001	0.000
1:03:00 PM	0.0	0.001	0.000
1:04:00 PM	0.0	0.001	0.000
1:05:00 PM	0.0	0.003	0.000
1:06:00 PM	0.0	0.004	0.000
1:07:00 PM	0.0	0.002	0.000
1:08:00 PM	0.0	0.002	0.000
1:09:00 PM	0.0	0.002	0.000
1:10:00 PM	0.0	0.002	0.000
1:11:00 PM	0.5	0.002	0.000
1:12:00 PM	0.2	0.001	0.000
1:13:00 PM	0.1	0.001	0.000
1:14:00 PM	0.1	0.000	0.000
1:15:00 PM	0.0	0.000	0.000
1:16:00 PM	0.0	0.001	0.000
1:17:00 PM	0.0	0.003	0.000
1:18:00 PM	0.0	0.004	0.000
1:19:00 PM	0.0	0.002	0.000
1:20:00 PM	0.0	0.001	0.000
1:21:00 PM	0.0	0.001	0.000
1:22:00 PM	0.0	0.002	0.000
1:23:00 PM	0.0	0.001	0.000
1:24:00 PM	0.0	0.001	0.000
1:25:00 PM	0.0	0.000	0.000
1:26:00 PM	0.0	0.000	0.000
1:27:00 PM	0.0	0.001	0.000
1:28:00 PM	0.0	0.001	0.000
1:29:00 PM	0.0	0.002	0.000
1:30:00 PM	0.0	0.003	0.000
1:31:00 PM	0.0	0.002	0.000
1:32:00 PM	0.0	0.002	0.000
1:33:00 PM	0.0	0.002	0.000
1:34:00 PM	0.0	0.001	0.000
1:35:00 PM	0.0	0.001	0.000
1:36:00 PM	0.0	0.001	0.000
1:37:00 PM	0.0	0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 16, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:38:00 PM	0.0	0.002	0.000
1:39:00 PM	0.0	0.001	0.000
1:40:00 PM	0.0	0.001	0.000
1:41:00 PM	0.0	0.001	0.000
1:42:00 PM	0.0	0.002	0.000
1:43:00 PM	0.0	0.005	0.000
1:44:00 PM	0.0	0.004	0.000
1:45:00 PM	0.0	0.002	0.000
1:46:00 PM	0.0	0.002	0.000
1:47:00 PM	0.0	0.002	0.000
1:48:00 PM	0.0	0.002	0.000
1:49:00 PM	0.0	0.006	0.000
1:50:00 PM	0.0	0.003	0.000
1:51:00 PM	0.0	0.002	0.000
1:52:00 PM	0.0	0.003	0.000
1:53:00 PM	0.0	0.003	0.000
1:54:00 PM	0.0	0.004	0.000
1:55:00 PM	0.0	0.005	0.000
1:56:00 PM	0.0	0.007	0.000
1:57:00 PM	0.0	0.010	0.000
1:58:00 PM	0.0	0.008	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.0	0.010	0.000
2:01:00 PM	0.0	0.008	0.000
2:02:00 PM	0.0	0.004	0.000
2:03:00 PM	0.0	0.003	0.000
2:04:00 PM	0.0	0.001	0.000
2:05:00 PM	0.0	0.002	0.000
2:06:00 PM	0.0	0.001	0.000
2:07:00 PM	0.0	0.001	0.000
2:08:00 PM	0.0	0.002	0.000
2:09:00 PM	0.0	0.004	0.000
2:10:00 PM	0.0	0.003	0.000
2:11:00 PM	0.0	0.002	0.000
2:12:00 PM	0.0	0.001	0.000
2:13:00 PM	0.0	0.001	0.000
2:14:00 PM	0.0	0.001	0.000
2:15:00 PM	0.0	0.001	0.000
2:16:00 PM	0.0	0.001	0.000
2:17:00 PM	0.0	0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:10:00 AM	0.0		0.000
9:11:00 AM	0.0		0.000
9:12:00 AM	0.0		0.000
9:13:00 AM	0.0		0.000
9:14:00 AM	0.0		0.000
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0		0.000
9:17:00 AM	0.0		0.000
9:18:00 AM	0.0		0.000
9:19:00 AM	0.0		0.000
9:20:00 AM	0.0		0.000
9:21:00 AM	0.0		0.000
9:22:00 AM	0.0		0.000
9:23:00 AM	0.0		0.000
9:24:00 AM	0.0		0.000
9:25:00 AM	0.0		0.000
9:26:00 AM	0.0		0.000
9:27:00 AM	0.0		0.000
9:28:00 AM	0.0		0.000
9:29:00 AM	0.0		0.000
9:30:00 AM	0.0		0.000
9:31:00 AM	0.0		0.000
9:32:00 AM	0.0		0.000
9:33:00 AM	0.0		0.000
9:34:00 AM	0.0		0.000
9:35:00 AM	0.0		0.000
9:36:00 AM	0.0		0.000
9:37:00 AM	0.0		0.000
9:38:00 AM	0.0		0.000
9:39:00 AM	0.0		0.000
9:40:00 AM	0.0		0.000
9:41:00 AM	0.0		0.000
9:42:00 AM	0.0		0.000
9:43:00 AM	0.0		0.000
9:44:00 AM	0.0		0.000
9:45:00 AM	0.0		0.000
9:46:00 AM	0.0		0.000
9:47:00 AM	0.0		0.000
9:48:00 AM	0.0		0.000
9:49:00 AM	0.0		0.000
9:50:00 AM	0.0		0.000
9:51:00 AM	0.0		0.000
9:52:00 AM	0.0		0.000
9:53:00 AM	0.0		0.000
9:54:00 AM	0.0		0.000
9:55:00 AM	0.0		0.000
9:56:00 AM	0.0		0.000
9:57:00 AM	0.0		0.000
9:58:00 AM	0.0		0.000
9:59:00 AM	0.0		0.000
10:00:00 AM	0.0		0.000
10:01:00 AM	0.0		0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:02:00 AM	0.0		0.000
10:03:00 AM	0.0		0.000
10:04:00 AM	0.0		0.000
10:06:00 AM	0.0		0.000
10:07:00 AM	0.0		0.000
10:08:00 AM	0.0	0.095	0.000
10:09:00 AM	0.0	0.012	0.000
10:10:00 AM	0.0	0.011	0.000
10:11:00 AM	0.0	0.011	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.012	0.000
10:14:00 AM	0.0	0.011	0.000
10:15:00 AM	0.0	0.010	0.000
10:16:00 AM	0.0	0.011	0.000
10:17:00 AM	0.0	0.012	0.000
10:18:00 AM	0.2	0.014	0.000
10:19:00 AM	0.1	0.032	0.000
10:20:00 AM	0.0	0.028	0.000
10:21:00 AM	0.0	0.013	0.000
10:22:00 AM	0.0	0.013	0.000
10:23:00 AM	0.0	0.013	0.000
10:24:00 AM	0.0	0.015	0.000
10:25:00 AM	0.0	0.014	0.000
10:26:00 AM	0.0	0.013	0.000
10:27:00 AM	0.0	0.015	0.000
10:28:00 AM	0.0	0.020	0.000
10:29:00 AM	0.0	0.012	0.000
10:30:00 AM	0.0	0.014	0.000
10:31:00 AM	0.0	0.019	0.000
10:32:00 AM	0.0	0.013	0.000
10:33:00 AM	0.0	0.014	0.000
10:34:00 AM	0.0	0.017	0.000
10:35:00 AM	0.0	0.014	0.000
10:36:00 AM	0.0	0.012	0.000
10:37:00 AM	0.0	0.013	0.000
10:38:00 AM	0.0	0.016	0.000
10:39:00 AM	0.0	0.016	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.1	0.048	0.000
10:42:00 AM	0.0	0.015	0.000
10:43:00 AM	0.0	0.026	0.000
10:44:00 AM	0.0	0.020	0.000
10:45:00 AM	0.0	0.012	0.000
10:46:00 AM	0.0	0.013	0.000
10:47:00 AM	0.0	0.021	0.000
10:48:00 AM	0.0	0.013	0.000
10:49:00 AM	0.0	0.014	0.000
10:50:00 AM	0.0	0.021	0.000
10:51:00 AM	0.0	0.014	0.000
10:52:00 AM	0.0	0.012	0.000
10:53:00 AM	0.0	0.013	0.000
10:54:00 AM	0.0	0.015	0.000
10:55:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:56:00 AM	0.1	0.014	0.000
10:57:00 AM	0.1	0.021	0.000
10:58:00 AM	0.0	0.017	0.000
10:59:00 AM	0.0	0.012	0.000
11:00:00 AM	0.0	0.013	0.000
11:01:00 AM	0.0	0.011	0.000
11:02:00 AM	0.0	0.012	0.000
11:03:00 AM	0.0	0.012	0.000
11:04:00 AM	0.0	0.012	0.000
11:05:00 AM	0.0	0.014	0.000
11:06:00 AM	0.0	0.012	0.000
11:07:00 AM	0.0	0.019	0.000
11:08:00 AM	0.0	0.014	0.000
11:09:00 AM	0.0	0.013	0.000
11:10:00 AM	0.0	0.011	0.000
11:11:00 AM	0.0	0.015	0.000
11:12:00 AM	0.0	0.017	0.000
11:13:00 AM	0.0	0.011	0.000
11:14:00 AM	0.0	0.018	0.000
11:15:00 AM	0.0	0.024	0.000
11:16:00 AM	0.0	0.038	0.000
11:17:00 AM	0.0	0.011	0.000
11:18:00 AM	0.0	0.011	0.000
11:19:00 AM	0.0	0.012	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.027	0.000
11:22:00 AM	0.0	0.012	0.000
11:23:00 AM	0.0	0.011	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.009	0.000
11:26:00 AM	0.0	0.009	0.000
11:27:00 AM	0.0	0.009	0.000
11:28:00 AM	0.0	0.010	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.010	0.000
11:31:00 AM	0.0	0.014	0.000
11:32:00 AM	0.0	0.010	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.009	0.000
11:35:00 AM	0.0	0.011	0.000
11:36:00 AM	0.0	0.010	0.000
11:37:00 AM	0.1	0.011	0.000
11:38:00 AM	0.0	0.010	0.000
11:39:00 AM	0.0	0.010	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.024	0.000
11:42:00 AM	0.0	0.012	0.000
11:43:00 AM	0.0	0.011	0.000
11:44:00 AM	0.0	0.010	0.000
11:45:00 AM	0.0	0.009	0.000
11:46:00 AM	0.0	0.009	0.000
11:47:00 AM	0.0	0.009	0.000
11:48:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:49:00 AM	0.0	0.009	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.011	0.000
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.011	0.000
11:56:00 AM	0.0	0.010	0.000
11:57:00 AM	0.0	0.016	0.000
11:58:00 AM	0.0	0.015	0.000
11:59:00 AM	0.0	0.013	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.0	0.010	0.000
12:02:00 PM	0.0	0.013	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.011	0.000
12:05:00 PM	0.0	0.010	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.009	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.009	0.000
12:10:00 PM	0.0	0.009	0.000
12:11:00 PM	0.0	0.009	0.000
12:12:00 PM	0.0	0.009	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.009	0.000
12:15:00 PM	0.0	0.011	0.000
12:16:00 PM	0.0	0.013	0.000
12:17:00 PM	0.0	0.012	0.000
12:18:00 PM	0.0	0.011	0.000
12:19:00 PM	0.0	0.010	0.000
12:20:00 PM	0.0	0.010	0.000
12:21:00 PM	0.0	0.009	0.000
12:22:00 PM	0.0	0.010	0.000
12:23:00 PM	0.0	0.009	0.000
12:24:00 PM	0.0	0.009	0.000
12:25:00 PM	0.0	0.011	0.000
12:26:00 PM	0.0	0.010	0.000
12:27:00 PM	0.0	0.009	0.000
12:28:00 PM	0.0	0.009	0.000
12:29:00 PM	0.0	0.009	0.000
12:30:00 PM	0.0	0.009	0.000
12:31:00 PM	0.0	0.010	0.000
12:32:00 PM	0.0	0.009	0.000
12:33:00 PM	0.0	0.015	0.000
12:34:00 PM	0.0	0.013	0.000
12:35:00 PM	0.0	0.016	0.000
12:36:00 PM	0.0	0.017	0.000
12:37:00 PM	0.0	0.013	0.000
12:38:00 PM	0.0	0.016	0.000
12:39:00 PM	0.0	0.015	0.000
12:40:00 PM	0.0	0.022	0.000
12:41:00 PM	0.0	0.055	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:42:00 PM	0.0	0.085	0.000
12:43:00 PM	0.0	0.010	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.015	0.000
12:46:00 PM	0.0	0.016	0.000
12:47:00 PM	0.0	0.063	0.000
12:48:00 PM	0.0	0.039	0.000
12:49:00 PM	0.0	0.019	0.000
12:50:00 PM	0.0	0.015	0.000
12:51:00 PM	0.0	0.014	0.000
12:52:00 PM	0.0	0.023	0.000
12:53:00 PM	0.0	0.014	0.000
12:54:00 PM	0.0	0.029	0.000
12:55:00 PM	0.0	0.008	0.000
12:56:00 PM	0.0	0.011	0.000
12:57:00 PM	0.0	0.010	0.000
12:58:00 PM	0.0	0.010	0.000
12:59:00 PM	0.0	0.012	0.000
1:00:00 PM	0.0	0.025	0.000
1:01:00 PM	0.0	0.038	0.000
1:02:00 PM	0.0	0.036	0.000
1:03:00 PM	0.0	0.010	0.000
1:04:00 PM	0.0	0.016	0.000
1:05:00 PM	0.0	0.070	0.000
1:06:00 PM	0.0	0.011	0.000
1:07:00 PM	0.1	0.010	0.000
1:08:00 PM	0.0	0.014	0.000
1:09:00 PM	0.1	0.010	0.000
1:10:00 PM	0.0	0.010	0.000
1:11:00 PM	0.0	0.007	0.000
1:12:00 PM	0.1	0.008	0.000
1:13:00 PM	0.0	0.007	0.000
1:14:00 PM	0.0	0.009	0.000
1:15:00 PM	0.0	0.009	0.000
1:16:00 PM	0.1	0.009	0.000
1:17:00 PM	0.1	0.013	0.000
1:18:00 PM	0.1	0.013	0.000
1:19:00 PM	0.1	0.008	0.000
1:20:00 PM	0.1	0.008	0.000
1:21:00 PM	0.1	0.008	0.000
1:22:00 PM	0.1	0.008	0.000
1:23:00 PM	0.1	0.008	0.000
1:24:00 PM	0.1	0.047	0.000
1:25:00 PM	0.1	0.052	0.000
1:26:00 PM	0.1	0.032	0.000
1:27:00 PM	0.1	0.010	0.000
1:28:00 PM	0.1	0.025	0.000
1:29:00 PM	0.1	0.017	0.000
1:30:00 PM	0.1	0.007	0.000
1:31:00 PM	0.1	0.016	0.000
1:32:00 PM	0.1	0.016	0.000
1:33:00 PM	0.1	0.012	0.000
1:34:00 PM	2.4	0.034	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 1, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:35:00 PM	0.9	0.15	0.000
1:36:00 PM	0.3	0.014	0.000
1:37:00 PM	0.3	0.01	0.000
1:38:00 PM	0.2	0.016	0.000
1:39:00 PM	0.3	0.012	0.000
1:40:00 PM	0.2	0.014	0.000
1:41:00 PM	0.1	0.008	0.000
1:42:00 PM	0.2	0.018	0.000
1:43:00 PM	0.1	0.014	0.000
1:44:00 PM	0.1	0.009	0.000
1:45:00 PM	0.1	0.008	0.000
1:46:00 PM	0.1	0.009	0.000
1:47:00 PM	0.1	0.009	0.000
1:48:00 PM	0.2	0.011	0.000
1:49:00 PM	0.2	0.023	0.000
1:50:00 PM	0.1	0.015	0.000
1:51:00 PM	0.1	0.01	0.000
1:52:00 PM	0.1	0.01	0.000
1:53:00 PM	0.3	0.013	0.000
1:54:00 PM	0.2	0.014	0.000
1:55:00 PM	0.2	0.024	0.000
1:56:00 PM	0.3	0.015	0.000
1:57:00 PM	0.2	0.018	0.000
1:58:00 PM	0.2	0.016	0.000
1:59:00 PM	0.3	0.016	0.000
2:00:00 PM	0.1	0.023	0.000
2:01:00 PM	0.2	0.020	0.000
2:02:00 PM	0.2	0.015	0.000
2:03:00 PM	0.2	0.012	0.000
2:04:00 PM	0.1	0.011	0.000
2:05:00 PM	0.1	0.009	0.000
2:06:00 PM	0.1	0.010	0.000
2:07:00 PM	0.2	0.009	0.000
2:08:00 PM	0.2	0.010	0.000
2:09:00 PM	0.2	0.015	0.000
2:10:00 PM	0.3	0.084	0.000
2:11:00 PM	0.1	0.020	0.000
2:12:00 PM	0.1	0.011	0.000
2:13:00 PM	0.1	0.012	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From E ~ 5 mph	Date:	3/17/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco excavating within area #4 to the west of the former drywell. All excavated soils are field screened for VOCs and mercury vapor by Preferred. At approximately 11:30 Aarco struck a waterline within the excavation, flooding the same with approximately 4 feet of water. All water was contained within the excavation. Aarco notified the LIRR and contacted their emergency contactor JCC Construction Corp whom responded to the site at 2:30. JCC uncovered a shutoff valve that would not turn. JCC contacted DEP whom will mobilize to the site March 19, 2021 to inspect the leak and potentially shut off the water main within 158th street to enable the repair to the water line. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site as well as two high-risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.020	0.000	0.2	0.040	0.000
Down Wind	0.1	0.018	0.000	1.3	0.038	0.000
Work Zone	0.0	0.009	0.000	0.0	0.030	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will load out soils for transport to Clean Earth.



Aarco excavating area #4.



Aarco placing all excavated soils onto the stockpile.

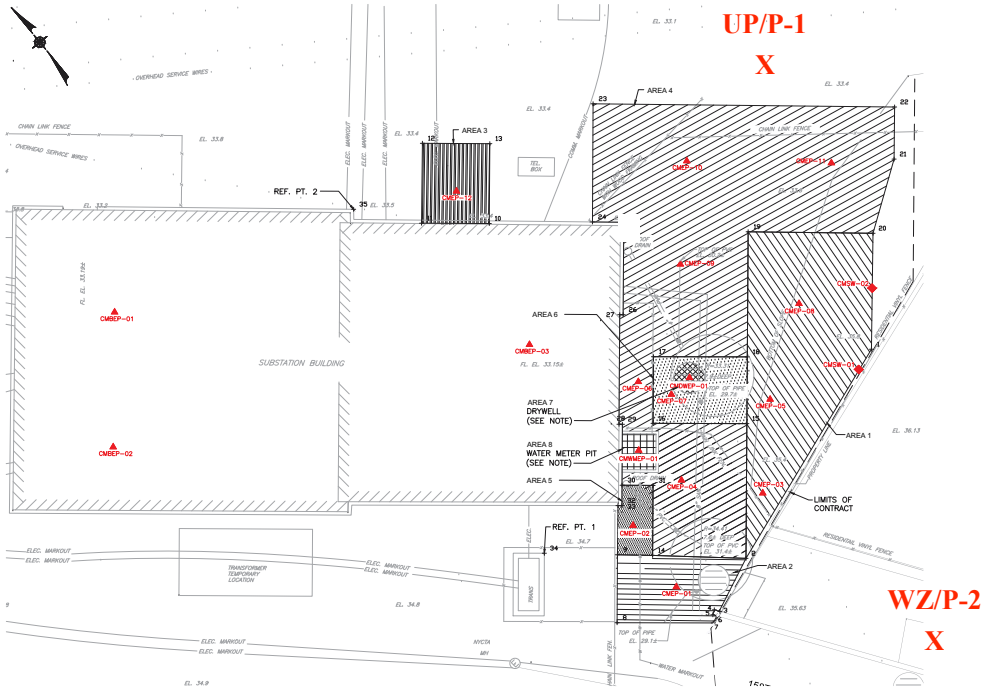


Aaarco strikes water line flooding excavation.



JCC contracting attempts to shut off water line however valve will not turn.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:18:00 AM	0.0		0.000
9:19:00 AM	0.0		0.000
9:20:00 AM	0.0	0.041	0.000
9:21:00 AM	0.0	0.040	0.000
9:22:00 AM	0.0	0.039	0.000
9:23:00 AM	0.0	0.039	0.000
9:24:00 AM	0.0	0.039	0.000
9:25:00 AM	0.0	0.039	0.000
9:26:00 AM	0.0	0.039	0.000
9:27:00 AM	0.0	0.040	0.000
9:28:00 AM	0.0	0.039	0.000
9:29:00 AM	0.0	0.039	0.000
9:30:00 AM	0.0	0.038	0.000
9:31:00 AM	0.0	0.038	0.000
9:32:00 AM	0.0	0.039	0.000
9:33:00 AM	0.0	0.040	0.000
9:34:00 AM	0.0	0.040	0.000
9:35:00 AM	0.0	0.040	0.000
9:36:00 AM	0.0	0.041	0.000
9:37:00 AM	0.0	0.040	0.000
9:38:00 AM	0.0	0.040	0.000
9:39:00 AM	0.0	0.040	0.000
9:40:00 AM	0.0	0.041	0.000
9:41:00 AM	0.0	0.041	0.000
9:42:00 AM	0.0	0.040	0.000
9:43:00 AM	0.0	0.040	0.000
9:44:00 AM	0.0	0.040	0.000
9:45:00 AM	0.0	0.040	0.000
9:46:00 AM	0.0	0.040	0.000
9:47:00 AM	0.0	0.040	0.000
9:48:00 AM	0.0	0.041	0.000
9:49:00 AM	0.0	0.040	0.000
9:50:00 AM	0.0	0.040	0.000
9:51:00 AM	0.0	0.041	0.000
9:52:00 AM	0.0	0.040	0.000
9:53:00 AM	0.0	0.040	0.000
9:54:00 AM	0.0	0.040	0.000
9:55:00 AM	0.0	0.039	0.000
9:56:00 AM	0.0	0.042	0.000
9:57:00 AM	0.0	0.041	0.000
9:58:00 AM	0.0	0.040	0.000
9:59:00 AM	0.0	0.040	0.000
10:00:00 AM	0.0	0.040	0.000
10:01:00 AM	0.0	0.039	0.000
10:02:00 AM	0.0	0.039	0.000
10:03:00 AM	0.0	0.039	0.000
10:04:00 AM	0.0	0.038	0.000
10:05:00 AM	0.0	0.039	0.000
10:06:00 AM	0.0	0.039	0.000
10:07:00 AM	0.0	0.038	0.000
10:08:00 AM	0.0	0.037	0.000
10:09:00 AM	0.0	0.038	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:10:00 AM	0.0	0.038	0.000
10:11:00 AM	0.0	0.037	0.000
10:12:00 AM	0.0	0.036	0.000
10:13:00 AM	0.0	0.036	0.000
10:14:00 AM	0.0	0.036	0.000
10:15:00 AM	0.0	0.038	0.000
10:16:00 AM	0.0	0.035	0.000
10:17:00 AM	0.0	0.036	0.000
10:18:00 AM	0.0	0.036	0.000
10:19:00 AM	0.0	0.036	0.000
10:20:00 AM	0.0	0.035	0.000
10:21:00 AM	0.0	0.036	0.000
10:22:00 AM	0.0	0.035	0.000
10:23:00 AM	0.0	0.035	0.000
10:24:00 AM	0.0	0.035	0.000
10:25:00 AM	0.0	0.037	0.000
10:26:00 AM	0.0	0.036	0.000
10:27:00 AM	0.0	0.035	0.000
10:28:00 AM	0.0	0.035	0.000
10:29:00 AM	0.0	0.034	0.000
10:30:00 AM	0.0	0.034	0.000
10:31:00 AM	0.0	0.036	0.000
10:32:00 AM	0.0	0.035	0.000
10:33:00 AM	0.0	0.033	0.000
10:34:00 AM	0.0	0.033	0.000
10:35:00 AM	0.0	0.033	0.000
10:36:00 AM	0.0	0.033	0.000
10:37:00 AM	0.0	0.032	0.000
10:38:00 AM	0.0	0.032	0.000
10:39:00 AM	0.0	0.032	0.000
10:40:00 AM	0.0	0.032	0.000
10:41:00 AM	0.0	0.033	0.000
10:42:00 AM	0.0	0.032	0.000
10:43:00 AM	0.0	0.032	0.000
10:44:00 AM	0.0	0.032	0.000
10:45:00 AM	0.0	0.031	0.000
10:46:00 AM	0.0	0.031	0.000
10:47:00 AM	0.0	0.031	0.000
10:48:00 AM	0.0	0.031	0.000
10:49:00 AM	0.0	0.033	0.000
10:50:00 AM	0.0	0.033	0.000
10:51:00 AM	0.0	0.031	0.000
10:52:00 AM	0.0	0.031	0.000
10:53:00 AM	0.0	0.031	0.000
10:54:00 AM	0.0	0.031	0.000
10:55:00 AM	0.0	0.031	0.000
10:56:00 AM	0.0	0.031	0.000
10:57:00 AM	0.1	0.031	0.000
10:58:00 AM	0.1	0.031	0.000
10:59:00 AM	0.1	0.030	0.000
11:00:00 AM	0.1	0.029	0.000
11:01:00 AM	0.1	0.029	0.000
11:02:00 AM	0.1	0.029	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:03:00 AM	0.1	0.029	0.000
11:04:00 AM	0.1	0.028	0.000
11:05:00 AM	0.1	0.029	0.000
11:06:00 AM	0.1	0.029	0.000
11:07:00 AM	0.1	0.030	0.000
11:08:00 AM	0.1	0.030	0.000
11:09:00 AM	0.1	0.030	0.000
11:10:00 AM	0.1	0.029	0.000
11:11:00 AM	0.1	0.029	0.000
11:12:00 AM	0.1	0.030	0.000
11:13:00 AM	0.1	0.030	0.000
11:14:00 AM	0.1	0.031	0.000
11:15:00 AM	0.1	0.036	0.000
11:16:00 AM	0.1	0.032	0.000
11:17:00 AM	0.1	0.029	0.000
11:18:00 AM	0.1	0.026	0.000
11:19:00 AM	0.1	0.026	0.000
11:20:00 AM	0.1	0.026	0.000
11:21:00 AM	0.1	0.026	0.000
11:22:00 AM	0.1	0.026	0.000
11:23:00 AM	0.1	0.025	0.000
11:24:00 AM	0.1	0.028	0.000
11:25:00 AM	0.1	0.033	0.000
11:26:00 AM	0.1	0.026	0.000
11:27:00 AM	0.1	0.026	0.000
11:28:00 AM	0.1	0.025	0.000
11:29:00 AM	0.1	0.025	0.000
11:30:00 AM	0.1	0.026	0.000
11:31:00 AM	0.1	0.026	0.000
11:32:00 AM	0.1	0.035	0.000
11:33:00 AM	0.1	0.029	0.000
11:34:00 AM	0.1	0.024	0.000
11:35:00 AM	0.1	0.024	0.000
11:36:00 AM	0.1	0.024	0.000
11:37:00 AM	0.1	0.023	0.000
11:38:00 AM	0.1	0.024	0.000
11:39:00 AM	0.1	0.023	0.000
11:40:00 AM	0.1	0.023	0.000
11:41:00 AM	0.1	0.023	0.000
11:42:00 AM	0.1	0.024	0.000
11:43:00 AM	0.1	0.023	0.000
11:44:00 AM	0.1	0.024	0.000
11:45:00 AM	0.1	0.024	0.000
11:46:00 AM	0.1	0.023	0.000
11:47:00 AM	0.1	0.023	0.000
11:48:00 AM	0.1	0.023	0.000
11:49:00 AM	0.1	0.023	0.000
11:50:00 AM	0.1	0.023	0.000
11:51:00 AM	0.1	0.023	0.000
11:52:00 AM	0.1	0.027	0.000
11:53:00 AM	0.1	0.026	0.000
11:54:00 AM	0.1	0.024	0.000
11:55:00 AM	0.1	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:56:00 AM	0.1	0.022	0.000
11:57:00 AM	0.1	0.021	0.000
11:58:00 AM	0.1	0.022	0.000
11:59:00 AM	0.1	0.021	0.000
12:00:00 PM	0.1	0.020	0.000
12:01:00 PM	0.1	0.022	0.000
12:02:00 PM	0.1	0.022	0.000
12:03:00 PM	0.1	0.023	0.000
12:04:00 PM	0.1	0.020	0.000
12:05:00 PM	0.1	0.019	0.000
12:06:00 PM	0.2	0.019	0.000
12:07:00 PM	0.1	0.018	0.000
12:08:00 PM	0.1	0.018	0.000
12:09:00 PM	0.1	0.018	0.000
12:10:00 PM	0.1	0.018	0.000
12:11:00 PM	0.1	0.018	0.000
12:12:00 PM	0.1	0.019	0.000
12:13:00 PM	0.1	0.018	0.000
12:14:00 PM	0.1	0.019	0.000
12:15:00 PM	0.1	0.017	0.000
12:16:00 PM	0.1	0.018	0.000
12:17:00 PM	0.1	0.017	0.000
12:18:00 PM	0.1	0.017	0.000
12:19:00 PM	0.1	0.017	0.000
12:20:00 PM	0.1	0.017	0.000
12:21:00 PM	0.1	0.017	0.000
12:22:00 PM	0.1	0.017	0.000
12:23:00 PM	0.1	0.017	0.000
12:24:00 PM	0.1	0.017	0.000
12:25:00 PM	0.1	0.017	0.000
12:26:00 PM	0.2	0.017	0.000
12:27:00 PM	0.1	0.017	0.000
12:28:00 PM	0.1	0.017	0.000
12:29:00 PM	0.1	0.018	0.000
12:30:00 PM	0.1	0.019	0.000
12:31:00 PM	0.1	0.017	0.000
12:32:00 PM	0.1	0.018	0.000
12:33:00 PM	0.1	0.017	0.000
12:34:00 PM	0.1	0.017	0.000
12:35:00 PM	0.1	0.017	0.000
12:36:00 PM	0.1	0.017	0.000
12:37:00 PM	0.1	0.017	0.000
12:38:00 PM	0.1	0.018	0.000
12:39:00 PM	0.1	0.017	0.000
12:40:00 PM	0.1	0.017	0.000
12:41:00 PM	0.1	0.017	0.000
12:42:00 PM	0.2	0.017	0.000
12:43:00 PM	0.3	0.017	0.000
12:44:00 PM	0.2	0.017	0.000
12:45:00 PM	0.2	0.016	0.000
12:46:00 PM	0.1	0.017	0.000
12:47:00 PM	0.1	0.016	0.000
12:48:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:49:00 PM	0.1	0.017	0.000
12:50:00 PM	0.1	0.016	0.000
12:51:00 PM	0.1	0.015	0.000
12:52:00 PM	0.1	0.015	0.000
12:53:00 PM	0.1	0.015	0.000
12:54:00 PM	0.1	0.016	0.000
12:55:00 PM	0.1	0.013	0.000
12:56:00 PM	0.1	0.013	0.000
12:57:00 PM	0.1	0.012	0.000
12:58:00 PM	0.1	0.012	0.000
12:59:00 PM	0.1	0.012	0.000
1:00:00 PM	0.1	0.012	0.000
1:01:00 PM	0.1	0.012	0.000
1:02:00 PM	0.1	0.013	0.000
1:03:00 PM	0.1	0.013	0.000
1:04:00 PM	0.1	0.012	0.000
1:05:00 PM	0.1	0.013	0.000
1:06:00 PM	0.1	0.013	0.000
1:07:00 PM	0.1	0.013	0.000
1:08:00 PM	0.1	0.013	0.000
1:09:00 PM	0.1	0.013	0.000
1:10:00 PM	0.1	0.013	0.000
1:11:00 PM	0.2	0.013	0.000
1:12:00 PM	0.1	0.013	0.000
1:13:00 PM	0.1	0.013	0.000
1:14:00 PM	0.1	0.014	0.000
1:15:00 PM	0.1	0.013	0.000
1:16:00 PM	0.1	0.012	0.000
1:17:00 PM	0.1	0.011	0.000
1:18:00 PM	0.1	0.011	0.000
1:19:00 PM	0.1	0.011	0.000
1:20:00 PM	0.1	0.011	0.000
1:21:00 PM	0.1	0.011	0.000
1:22:00 PM	0.1	0.011	0.000
1:23:00 PM	0.1	0.011	0.000
1:24:00 PM	0.1	0.010	0.000
1:25:00 PM	0.1	0.011	0.000
1:26:00 PM	0.1	0.011	0.000
1:27:00 PM	0.1	0.011	0.000
1:28:00 PM	0.1	0.012	0.000
1:29:00 PM	0.1	0.012	0.000
1:30:00 PM	0.1	0.012	0.000
1:31:00 PM	0.1	0.012	0.000
1:32:00 PM	0.1	0.012	0.000
1:33:00 PM	0.1	0.013	0.000
1:34:00 PM	0.1	0.013	0.000
1:35:00 PM	0.1	0.013	0.000
1:36:00 PM	0.1	0.013	0.000
1:37:00 PM	0.1	0.014	0.000
1:38:00 PM	0.1	0.014	0.000
1:39:00 PM	0.1	0.013	0.000
1:40:00 PM	0.1	0.014	0.000
1:41:00 PM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:42:00 PM	0.1	0.014	0.000
1:43:00 PM	0.1	0.014	0.000
1:44:00 PM	0.1	0.013	0.000
1:45:00 PM	0.1	0.014	0.000
1:46:00 PM	0.1	0.013	0.000
1:47:00 PM	0.1	0.013	0.000
1:48:00 PM	0.1	0.013	0.000
1:49:00 PM	0.1	0.013	0.000
1:50:00 PM	0.1	0.013	0.000
1:51:00 PM	0.1	0.014	0.000
1:52:00 PM	0.1	0.013	0.000
1:53:00 PM	0.1	0.013	0.000
1:54:00 PM	0.1	0.013	0.000
1:55:00 PM	0.1	0.013	0.000
1:56:00 PM	0.1	0.013	0.000
1:57:00 PM	0.1	0.012	0.000
1:58:00 PM	0.1	0.013	0.000
1:59:00 PM	0.1	0.013	0.000
2:00:00 PM	0.1	0.013	0.000
2:01:00 PM	0.1	0.013	0.000
2:02:00 PM	0.1	0.013	0.000
2:03:00 PM	0.1	0.014	0.000
2:04:00 PM	0.1	0.014	0.000
2:05:00 PM	0.1	0.014	0.000
2:06:00 PM	0.1	0.014	0.000
2:07:00 PM	0.1	0.014	0.000
2:08:00 PM	0.1	0.014	0.000
2:09:00 PM	0.1	0.014	0.000
2:10:00 PM	0.1	0.015	0.000
2:11:00 PM	0.1	0.014	0.000
2:12:00 PM	0.1	0.014	0.000
2:13:00 PM	0.1	0.014	0.000
2:14:00 PM	0.1	0.014	0.000
2:15:00 PM	0.1	0.015	0.000
2:16:00 PM	0.1	0.013	0.000
2:17:00 PM	0.1	0.013	0.000
2:18:00 PM	0.1	0.012	0.000
2:19:00 PM	0.1	0.012	0.000
2:20:00 PM	0.1	0.014	0.000
2:21:00 PM	0.1	0.015	0.000
2:22:00 PM	0.1	0.016	0.000
2:23:00 PM	0.1	0.015	0.000
2:24:00 PM	0.1	0.015	0.000
2:25:00 PM	0.1	0.015	0.000
2:26:00 PM	0.1	0.015	0.000
2:27:00 PM	0.1	0.014	0.000
2:28:00 PM	0.1	0.014	0.000
2:29:00 PM	0.2	0.013	0.000
2:30:00 PM	0.1	0.013	0.000
2:31:00 PM	0.1	0.013	0.000
2:32:00 PM	0.1	0.013	0.000
2:33:00 PM	0.1	0.013	0.000
2:34:00 PM	0.2	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:35:00 PM	0.2	0.014	0.000
2:36:00 PM	0.1	0.022	0.000
2:37:00 PM	0.1	0.020	0.000
2:38:00 PM	0.1	0.018	0.000
2:39:00 PM	0.1	0.015	0.000
2:40:00 PM	0.1	0.013	0.000
2:41:00 PM	0.1	0.013	0.000
2:42:00 PM	0.1	0.013	0.000
2:43:00 PM	0.1	0.012	0.000
2:44:00 PM	0.1	0.013	0.000
2:45:00 PM	0.1	0.013	0.000
2:46:00 PM	0.1	0.014	0.000
2:47:00 PM	0.1	0.014	0.000
2:48:00 PM	0.1	0.013	0.000
2:49:00 PM	0.1	0.013	0.000
2:50:00 PM	0.1	0.013	0.000
2:51:00 PM	0.1	0.013	0.000
2:52:00 PM	0.1	0.013	0.000
2:53:00 PM	0.1	0.013	0.000
2:54:00 PM	0.1	0.013	0.000
2:55:00 PM	0.1	0.013	0.000
2:56:00 PM	0.1	0.012	0.000
2:57:00 PM	0.1	0.013	0.000
2:58:00 PM	0.1	0.012	0.000
2:59:00 PM	0.1	0.012	0.000
3:00:00 PM	0.1	0.013	0.000
3:01:00 PM	0.1	0.014	0.000
3:02:00 PM	0.1	0.014	0.000
3:03:00 PM	0.1	0.012	0.000
3:04:00 PM	0.1	0.012	0.000
3:05:00 PM	0.1	0.012	0.000
3:06:00 PM	0.1	0.013	0.000
3:07:00 PM	0.2	0.012	0.000
3:08:00 PM	0.1	0.013	0.000
3:09:00 PM	0.1	0.013	0.000
3:10:00 PM	0.1	0.013	0.000
3:11:00 PM	0.1	0.013	0.000
3:12:00 PM	0.1	0.013	0.000
3:13:00 PM	0.1	0.013	0.000
3:14:00 PM	0.1	0.013	0.000
3:15:00 PM	0.1	0.013	0.000
3:16:00 PM	0.1	0.014	0.000
3:17:00 PM	0.1	0.012	0.000
3:18:00 PM	0.1	0.012	0.000
3:19:00 PM	0.1	0.012	0.000
3:20:00 PM	0.1	0.013	0.000
3:21:00 PM	0.1	0.013	0.000
3:22:00 PM	0.1	0.013	0.000
3:23:00 PM	0.1	0.012	0.000
3:24:00 PM	0.1	0.013	0.000
3:25:00 PM	0.1	0.013	0.000
3:26:00 PM	0.1	0.012	0.000
3:27:00 PM	0.1	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
3:28:00 PM	0.1	0.013	0.000
3:29:00 PM	0.1	0.017	0.000
3:30:00 PM	0.1	0.014	0.000
3:31:00 PM	0.1	0.013	0.000
3:32:00 PM	0.1	0.012	0.000
3:33:00 PM	0.1	0.012	0.000
3:34:00 PM	0.1	0.014	0.000
3:35:00 PM	0.1	0.012	0.000
3:36:00 PM	0.1	0.011	0.000
3:37:00 PM	0.1	0.010	0.000
3:38:00 PM	0.1	0.009	0.000
3:39:00 PM	0.1	0.009	0.000
3:40:00 PM	0.1	0.010	0.000
3:41:00 PM	0.1	0.010	0.000
3:42:00 PM	0.1	0.011	0.000
3:43:00 PM	0.1	0.011	0.000
3:44:00 PM	0.1	0.011	0.000
3:45:00 PM	0.1	0.011	0.000
3:46:00 PM	0.1	0.011	0.000
3:47:00 PM	0.1	0.011	0.000
3:48:00 PM	0.1	0.011	0.000
3:49:00 PM	0.1	0.010	0.000
3:50:00 PM	0.1	0.009	0.000
3:51:00 PM	0.1	0.008	0.000
3:52:00 PM	0.1	0.008	0.000
3:53:00 PM	0.1	0.009	0.000
3:54:00 PM	0.1	0.009	0.000
3:55:00 PM	0.1	0.009	0.000
3:56:00 PM	0.1	0.009	0.000
3:57:00 PM	0.1	0.008	0.000
3:58:00 PM	0.1	0.008	0.000
3:59:00 PM	0.1	0.009	0.000
4:00:00 PM	0.1	0.009	0.000
4:01:00 PM	0.1	0.009	0.000
4:02:00 PM	0.1	0.009	0.000
4:03:00 PM	0.1	0.008	0.000
4:04:00 PM	0.1	0.009	0.000
4:05:00 PM	0.1	0.009	0.000
4:06:00 PM	0.1	0.010	0.000
4:07:00 PM	0.1	0.011	0.000
4:08:00 PM	0.1	0.010	0.000
4:09:00 PM	0.1	0.011	0.000
4:10:00 PM	0.1	0.011	0.000
4:11:00 PM	0.1	0.011	0.000
4:12:00 PM	0.1	0.011	0.000
4:13:00 PM	0.1	0.010	0.000
4:14:00 PM	0.1	0.009	0.000
4:15:00 PM	0.1	0.009	0.000
4:16:00 PM	0.1	0.009	0.000
4:17:00 PM	0.1	0.009	0.000
4:18:00 PM	0.2	0.011	0.000
4:19:00 PM	0.1	0.011	0.000
4:20:00 PM	0.1	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
4:21:00 PM	0.1	0.012	0.000
4:22:00 PM	0.1	0.011	0.000
4:23:00 PM	0.1	0.011	0.000
4:24:00 PM	0.1	0.011	0.000
4:25:00 PM	0.1	0.010	0.000
4:26:00 PM	0.1	0.010	0.000
4:27:00 PM	0.1	0.011	0.000
4:28:00 PM	0.1	0.012	0.000
4:29:00 PM	0.1	0.012	0.000
4:30:00 PM	0.1	0.012	0.000
4:31:00 PM	0.1	0.014	0.000
4:32:00 PM	0.1	0.011	0.000
4:33:00 PM	0.1	0.010	0.000
4:34:00 PM	0.1	0.011	0.000
4:35:00 PM	0.1	0.012	0.000
4:36:00 PM	0.1	0.012	0.000
4:37:00 PM	0.1	0.011	0.000
4:38:00 PM	0.1	0.011	0.000
4:39:00 PM	0.1	0.011	0.000
4:40:00 PM	0.1	0.010	0.000
4:41:00 PM	0.1	0.011	0.000
4:42:00 PM	0.1	0.011	0.000
4:43:00 PM	0.1	0.011	0.000
4:44:00 PM	0.1	0.012	0.000
4:45:00 PM	0.1	0.014	0.000
4:46:00 PM	0.1	0.012	0.000
4:47:00 PM	0.1	0.012	0.000
4:48:00 PM	0.2	0.011	0.000
4:49:00 PM	0.1	0.013	0.000
4:50:00 PM	0.1	0.012	0.000
4:51:00 PM	0.1	0.012	0.000
4:52:00 PM	0.1	0.012	0.000
4:53:00 PM	0.1	0.012	0.000
4:54:00 PM	0.1	0.013	0.000
4:55:00 PM	0.1	0.013	0.000
4:56:00 PM	0.1	0.017	0.000
4:57:00 PM	0.2	0.013	0.000
4:58:00 PM	0.1	0.012	0.000
4:59:00 PM	0.1	0.014	0.000
5:00:00 PM	0.1	0.015	0.000
5:01:00 PM	0.1	0.013	0.000
5:02:00 PM	0.1	0.012	0.000
5:03:00 PM	0.1	0.012	0.000
5:04:00 PM	0.1	0.012	0.000
5:05:00 PM	0.1	0.012	0.000
5:06:00 PM	0.1	0.012	0.000
5:07:00 PM	0.1	0.012	0.000
5:08:00 PM	0.2	0.012	0.000
5:09:00 PM	0.1	0.013	0.000
5:10:00 PM	0.1	0.012	0.000
5:11:00 PM	0.1	0.010	0.000
5:12:00 PM	0.1	0.010	0.000
5:13:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
5:14:00 PM	0.1	0.011	0.000
5:15:00 PM	0.1	0.011	0.000
5:16:00 PM	0.1	0.011	0.000
5:17:00 PM	0.1	0.011	0.000
5:18:00 PM	0.1	0.012	0.000
5:19:00 PM	0.1	0.012	0.000
5:20:00 PM	0.1	0.012	0.000
5:21:00 PM	0.1	0.012	0.000
5:22:00 PM	0.1	0.012	0.000
5:23:00 PM	0.1	0.012	0.000
5:24:00 PM	0.1	0.013	0.000
5:25:00 PM	0.1	0.012	0.000
5:26:00 PM	0.1	0.012	0.000
5:27:00 PM	0.1	0.012	0.000
5:28:00 PM	0.2	0.012	0.000
5:29:00 PM	0.2	0.011	0.000
5:30:00 PM	0.1	0.011	0.000
5:31:00 PM	0.1	0.011	0.000
5:32:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:10:00 AM	0.0	0.032	0.000
9:11:00 AM	0.0	0.030	0.000
9:12:00 AM	0.0	0.030	0.000
9:13:00 AM	0.0	0.030	0.000
9:14:00 AM	0.0	0.031	0.000
9:15:00 AM	0.0	0.030	0.000
9:16:00 AM	0.0	0.032	0.000
9:17:00 AM	0.0	0.029	0.000
9:18:00 AM	0.0	0.030	0.000
9:19:00 AM	0.0	0.030	0.000
9:20:00 AM	0.0	0.030	0.000
9:21:00 AM	0.0	0.033	0.000
9:22:00 AM	0.0	0.033	0.000
9:23:00 AM	0.0	0.029	0.000
9:24:00 AM	0.0	0.029	0.000
9:25:00 AM	0.0	0.028	0.000
9:26:00 AM	0.0	0.029	0.000
9:27:00 AM	0.0	0.029	0.000
9:28:00 AM	0.0	0.029	0.000
9:29:00 AM	0.0	0.030	0.000
9:30:00 AM	0.0	0.029	0.000
9:31:00 AM	0.0	0.028	0.000
9:32:00 AM	0.0	0.027	0.000
9:33:00 AM	0.0	0.029	0.000
9:34:00 AM	0.0	0.029	0.000
9:35:00 AM	0.0	0.030	0.000
9:36:00 AM	0.0	0.030	0.000
9:37:00 AM	0.0	0.030	0.000
9:38:00 AM	0.0	0.029	0.000
9:39:00 AM	0.0	0.028	0.000
9:40:00 AM	0.0	0.029	0.000
9:41:00 AM	0.0	0.028	0.000
9:42:00 AM	0.0	0.029	0.000
9:43:00 AM	0.0	0.028	0.000
9:44:00 AM	0.0	0.028	0.000
9:45:00 AM	0.0	0.027	0.000
9:46:00 AM	0.0	0.028	0.000
9:47:00 AM	0.0	0.028	0.000
9:48:00 AM	0.0	0.028	0.000
9:49:00 AM	0.0	0.029	0.000
9:50:00 AM	0.0	0.030	0.000
9:51:00 AM	0.0	0.030	0.000
9:52:00 AM	0.0	0.032	0.000
9:53:00 AM	0.0	0.028	0.000
9:54:00 AM	0.0	0.027	0.000
9:56:00 AM	0.0		0.000
9:57:00 AM	0.0	0.030	0.000
9:58:00 AM	0.0	0.029	0.000
9:59:00 AM	0.0	0.028	0.000
10:00:00 AM	0.0	0.028	0.000
10:01:00 AM	0.0	0.029	0.000
10:02:00 AM	0.0	0.028	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:03:00 AM	0.0	0.028	0.000
10:04:00 AM	0.0	0.027	0.000
10:05:00 AM	0.0	0.028	0.000
10:06:00 AM	0.0	0.027	0.000
10:07:00 AM	0.0	0.026	0.000
10:08:00 AM	0.0	0.026	0.000
10:09:00 AM	0.0	0.025	0.000
10:10:00 AM	0.0	0.025	0.000
10:11:00 AM	0.0	0.027	0.000
10:12:00 AM	0.0	0.024	0.000
10:13:00 AM	0.0	0.023	0.000
10:14:00 AM	0.0	0.023	0.000
10:15:00 AM	0.0	0.024	0.000
10:16:00 AM	0.0	0.023	0.000
10:17:00 AM	0.0	0.024	0.000
10:18:00 AM	0.0	0.023	0.000
10:19:00 AM	0.0	0.025	0.000
10:20:00 AM	0.0	0.023	0.000
10:21:00 AM	0.0	0.023	0.000
10:22:00 AM	0.0	0.022	0.000
10:23:00 AM	0.0	0.022	0.000
10:24:00 AM	0.0	0.022	0.000
10:25:00 AM	0.0	0.022	0.000
10:26:00 AM	0.0	0.024	0.000
10:27:00 AM	0.0	0.023	0.000
10:28:00 AM	0.0	0.022	0.000
10:29:00 AM	0.0	0.023	0.000
10:30:00 AM	0.0	0.022	0.000
10:31:00 AM	0.0	0.022	0.000
10:32:00 AM	0.0	0.023	0.000
10:33:00 AM	0.0	0.023	0.000
10:34:00 AM	0.0	0.022	0.000
10:35:00 AM	0.0	0.021	0.000
10:36:00 AM	0.0	0.021	0.000
10:37:00 AM	0.0	0.020	0.000
10:38:00 AM	0.0	0.020	0.000
10:39:00 AM	0.0	0.020	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.0	0.020	0.000
10:42:00 AM	0.0	0.020	0.000
10:43:00 AM	0.0	0.019	0.000
10:44:00 AM	0.0	0.019	0.000
10:45:00 AM	0.0	0.020	0.000
10:46:00 AM	0.0	0.019	0.000
10:47:00 AM	0.0	0.019	0.000
10:48:00 AM	0.0	0.019	0.000
10:49:00 AM	0.0	0.020	0.000
10:50:00 AM	0.0	0.020	0.000
10:51:00 AM	0.0	0.020	0.000
10:52:00 AM	0.0	0.025	0.000
10:53:00 AM	0.0	0.020	0.000
10:54:00 AM	0.0	0.019	0.000
10:55:00 AM	0.0	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:56:00 AM	0.0	0.018	0.000
10:57:00 AM	0.0	0.018	0.000
10:58:00 AM	0.0	0.018	0.000
10:59:00 AM	0.0	0.018	0.000
11:00:00 AM	0.0	0.017	0.000
11:01:00 AM	0.0	0.017	0.000
11:02:00 AM	0.0	0.017	0.000
11:03:00 AM	0.0	0.016	0.000
11:04:00 AM	0.0	0.017	0.000
11:05:00 AM	0.0	0.017	0.000
11:06:00 AM	0.0	0.017	0.000
11:07:00 AM	0.0	0.017	0.000
11:08:00 AM	0.0	0.018	0.000
11:09:00 AM	0.0	0.017	0.000
11:10:00 AM	0.0	0.017	0.000
11:11:00 AM	0.0	0.017	0.000
11:12:00 AM	0.0	0.017	0.000
11:13:00 AM	0.0	0.016	0.000
11:14:00 AM	0.0	0.018	0.000
11:15:00 AM	0.0	0.030	0.000
11:16:00 AM	0.0	0.017	0.000
11:17:00 AM	0.0	0.016	0.000
11:18:00 AM	0.0	0.015	0.000
11:19:00 AM	0.0	0.015	0.000
11:20:00 AM	0.0	0.015	0.000
11:21:00 AM	0.0	0.015	0.000
11:22:00 AM	0.0	0.015	0.000
11:23:00 AM	0.0	0.015	0.000
11:24:00 AM	0.0	0.014	0.000
11:25:00 AM	0.0	0.014	0.000
11:26:00 AM	0.0	0.014	0.000
11:27:00 AM	0.0	0.014	0.000
11:28:00 AM	0.0	0.014	0.000
11:29:00 AM	0.0	0.014	0.000
11:30:00 AM	0.0	0.014	0.000
11:31:00 AM	0.0	0.013	0.000
11:32:00 AM	0.0	0.015	0.000
11:33:00 AM	0.0	0.015	0.000
11:34:00 AM	0.0	0.013	0.000
11:35:00 AM	0.0	0.012	0.000
11:36:00 AM	0.0	0.011	0.000
11:37:00 AM	0.0	0.012	0.000
11:38:00 AM	0.0	0.011	0.000
11:39:00 AM	0.0	0.012	0.000
11:40:00 AM	0.0	0.012	0.000
11:41:00 AM	0.0	0.012	0.000
11:42:00 AM	0.0	0.013	0.000
11:43:00 AM	0.0	0.012	0.000
11:44:00 AM	0.0	0.012	0.000
11:45:00 AM	0.0	0.012	0.000
11:46:00 AM	0.0	0.012	0.000
11:47:00 AM	0.0	0.011	0.000
11:48:00 AM	0.0	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:49:00 AM	0.0	0.012	0.000
11:50:00 AM	0.0	0.012	0.000
11:51:00 AM	0.0	0.012	0.000
11:52:00 AM	0.0	0.012	0.000
11:53:00 AM	0.0	0.012	0.000
11:54:00 AM	0.0	0.012	0.000
11:55:00 AM	0.0	0.012	0.000
11:56:00 AM	0.0	0.011	0.000
11:57:00 AM	0.0	0.010	0.000
11:58:00 AM	0.0	0.010	0.000
11:59:00 AM	0.0	0.010	0.000
12:00:00 PM	0.0	0.011	0.000
12:01:00 PM	0.0	0.011	0.000
12:02:00 PM	0.0	0.010	0.000
12:03:00 PM	0.0	0.010	0.000
12:04:00 PM	0.0	0.009	0.000
12:05:00 PM	0.0	0.009	0.000
12:06:00 PM	0.0	0.009	0.000
12:07:00 PM	0.0	0.009	0.000
12:08:00 PM	0.0	0.009	0.000
12:09:00 PM	0.0	0.008	0.000
12:10:00 PM	0.0	0.008	0.000
12:11:00 PM	0.0	0.008	0.000
12:12:00 PM	0.0	0.008	0.000
12:13:00 PM	0.0	0.009	0.000
12:14:00 PM	0.1	0.009	0.000
12:15:00 PM	0.0	0.007	0.000
12:16:00 PM	0.0	0.008	0.000
12:17:00 PM	0.0	0.007	0.000
12:18:00 PM	0.0	0.008	0.000
12:19:00 PM	0.0	0.008	0.000
12:20:00 PM	0.0	0.008	0.000
12:21:00 PM	0.0	0.008	0.000
12:22:00 PM	0.0	0.007	0.000
12:23:00 PM	0.0	0.007	0.000
12:24:00 PM	0.0	0.007	0.000
12:25:00 PM	0.0	0.007	0.000
12:26:00 PM	0.0	0.007	0.000
12:27:00 PM	0.0	0.007	0.000
12:28:00 PM	0.0	0.007	0.000
12:29:00 PM	0.0	0.008	0.000
12:30:00 PM	0.0	0.008	0.000
12:31:00 PM	0.0	0.007	0.000
12:32:00 PM	0.0	0.007	0.000
12:33:00 PM	0.0	0.007	0.000
12:34:00 PM	0.0	0.007	0.000
12:35:00 PM	0.0	0.007	0.000
12:36:00 PM	0.0	0.007	0.000
12:37:00 PM	0.0	0.006	0.000
12:38:00 PM	0.0	0.006	0.000
12:39:00 PM	0.0	0.006	0.000
12:40:00 PM	0.0	0.007	0.000
12:41:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:42:00 PM	0.0	0.006	0.000
12:43:00 PM	0.0	0.006	0.000
12:44:00 PM	0.0	0.006	0.000
12:45:00 PM	0.0	0.006	0.000
12:46:00 PM	0.0	0.006	0.000
12:47:00 PM	0.0	0.006	0.000
12:48:00 PM	0.0	0.006	0.000
12:49:00 PM	0.0	0.006	0.000
12:50:00 PM	0.0	0.006	0.000
12:51:00 PM	0.0	0.006	0.000
12:52:00 PM	0.0	0.005	0.000
12:53:00 PM	0.0	0.005	0.000
12:54:00 PM	0.0	0.005	0.000
12:55:00 PM	0.0	0.005	0.000
12:56:00 PM	0.0	0.004	0.000
12:57:00 PM	0.0	0.004	0.000
12:58:00 PM	0.0	0.004	0.000
12:59:00 PM	0.0	0.003	0.000
1:00:00 PM	0.0	0.003	0.000
1:01:00 PM	0.0	0.004	0.000
1:02:00 PM	0.0	0.003	0.000
1:03:00 PM	0.0	0.003	0.000
1:04:00 PM	0.0	0.003	0.000
1:05:00 PM	0.0	0.003	0.000
1:06:00 PM	0.0	0.003	0.000
1:07:00 PM	0.0	0.003	0.000
1:08:00 PM	0.0	0.003	0.000
1:09:00 PM	0.0	0.003	0.000
1:10:00 PM	0.0	0.003	0.000
1:11:00 PM	0.0	0.003	0.000
1:12:00 PM	0.0	0.002	0.000
1:13:00 PM	0.0	0.003	0.000
1:14:00 PM	0.0	0.003	0.000
1:15:00 PM	0.0	0.003	0.000
1:16:00 PM	0.0	0.002	0.000
1:17:00 PM	0.0	0.002	0.000
1:18:00 PM	0.0	0.002	0.000
1:19:00 PM	0.0	0.002	0.000
1:20:00 PM	0.0	0.002	0.000
1:21:00 PM	0.0	0.002	0.000
1:22:00 PM	0.0	0.002	0.000
1:23:00 PM	0.0	0.001	0.000
1:24:00 PM	0.0	0.001	0.000
1:25:00 PM	0.0	0.001	0.000
1:26:00 PM	0.0	0.002	0.000
1:27:00 PM	0.0	0.002	0.000
1:28:00 PM	0.0	0.002	0.000
1:29:00 PM	0.0	0.003	0.000
1:30:00 PM	0.0	0.003	0.000
1:31:00 PM	0.0	0.003	0.000
1:32:00 PM	0.0	0.003	0.000
1:33:00 PM	0.0	0.003	0.000
1:34:00 PM	0.0	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:35:00 PM	0.0	0.003	0.000
1:36:00 PM	0.0	0.003	0.000
1:37:00 PM	0.0	0.004	0.000
1:38:00 PM	0.0	0.004	0.000
1:39:00 PM	0.0	0.003	0.000
1:40:00 PM	0.0	0.003	0.000
1:41:00 PM	0.0	0.003	0.000
1:42:00 PM	0.0	0.003	0.000
1:43:00 PM	0.0	0.003	0.000
1:44:00 PM	0.0	0.003	0.000
1:45:00 PM	0.0	0.003	0.000
1:46:00 PM	0.0	0.003	0.000
1:47:00 PM	0.0	0.003	0.000
1:48:00 PM	0.0	0.003	0.000
1:49:00 PM	0.0	0.003	0.000
1:50:00 PM	0.0	0.003	0.000
1:51:00 PM	0	0.003	0
1:52:00 PM	0	0.003	0
1:53:00 PM	0	0.003	0
1:54:00 PM	0	0.002	0
1:55:00 PM	0	0.002	0
1:56:00 PM	0	0.002	0
1:57:00 PM	0	0.002	0
1:58:00 PM	0	0.002	0
1:59:00 PM	0	0.002	0
2:00:00 PM	0	0.002	0
2:01:00 PM	0	0.002	0
2:02:00 PM	0	0.002	0
2:03:00 PM	0	0.003	0
2:04:00 PM	0	0.003	0
2:05:00 PM	0	0.003	0
2:06:00 PM	0	0.003	0
2:07:00 PM	0	0.003	0
2:08:00 PM	0	0.003	0
2:09:00 PM	0	0.003	0
2:10:00 PM	0	0.004	0
2:11:00 PM	0	0.004	0
2:12:00 PM	0	0.003	0
2:13:00 PM	0	0.003	0
2:14:00 PM	0	0.003	0
2:15:00 PM	0	0.003	0
2:16:00 PM	0	0.003	0
2:17:00 PM	0	0.003	0
2:18:00 PM	0	0.002	0
2:19:00 PM	0	0.003	0
2:20:00 PM	0	0.003	0
2:21:00 PM	0	0.003	0
2:22:00 PM	0	0.005	0
2:23:00 PM	0	0.004	0
2:24:00 PM	0	0.005	0
2:25:00 PM	0	0.004	0
2:26:00 PM	0	0.003	0
2:27:00 PM	0	0.003	0

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:28:00 PM	0	0.002	0
2:29:00 PM	0	0.003	0
2:30:00 PM	0	0.003	0
2:31:00 PM	0	0.003	0
2:32:00 PM	0	0.002	0
2:33:00 PM	0	0.003	0
2:34:00 PM	0	0.012	0
2:35:00 PM	0	0.005	0
2:36:00 PM	0	0.009	0
2:37:00 PM	0	0.013	0
2:38:00 PM	0	0.007	0
2:39:00 PM	0	0.003	0
2:40:00 PM	0	0.002	0
2:41:00 PM	0	0.002	0
2:42:00 PM	0	0.002	0
2:43:00 PM	0	0.001	0
2:44:00 PM	0	0.002	0
2:45:00 PM	0	0.002	0
2:46:00 PM	0	0.003	0
2:47:00 PM	0	0.002	0
2:48:00 PM	0	0.002	0
2:49:00 PM	0	0.002	0
2:50:00 PM	0	0.002	0
2:51:00 PM	0	0.002	0
2:52:00 PM	0	0.002	0
2:53:00 PM	0	0.003	0
2:54:00 PM	0	0.001	0
2:55:00 PM	0	0.002	0
2:56:00 PM	0	0.002	0
2:57:00 PM	0	0.002	0
2:58:00 PM	0	0.002	0
2:59:00 PM	0	0.002	0
3:00:00 PM	0	0.002	0
3:01:00 PM	0.0	0.0	0.000
3:02:00 PM	0.0	0.0	0.000
3:03:00 PM	0.0	0.0	0.000
3:04:00 PM	0.0	0.0	0.000
3:05:00 PM	0.0	0.0	0.000
3:06:00 PM	0.0	0.0	0.000
3:07:00 PM	0.0	0.0	0.000
3:08:00 PM	0.0	0.0	0.000
3:09:00 PM	0.0	0.0	0.000
3:10:00 PM	0.0	0.0	0.000
3:11:00 PM	0.0	0.0	0.000
3:12:00 PM	0.0	0.0	0.000
3:13:00 PM	0.0	0.0	0.000
3:14:00 PM	0.0	0.0	0.000
3:15:00 PM	0.0	0.0	0.000
3:16:00 PM	0.0	0.0	0.000
3:17:00 PM	0.0	0.0	0.000
3:18:00 PM	0.0	0.0	0.000
3:19:00 PM	0.0	0.0	0.000
3:20:00 PM	0.0	0.0	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
3:21:00 PM	0.0	0.0	0.000
3:22:00 PM	0.0	0.0	0.000
3:23:00 PM	0.0	0.0	0.000
3:24:00 PM	0.0	0.0	0.000
3:25:00 PM	0.0	0.0	0.000
3:26:00 PM	0.0	0.0	0.000
3:27:00 PM	0.0	0.0	0.000
3:28:00 PM	0.0	0.0	0.000
3:29:00 PM	0.0	0.0	0.000
3:30:00 PM	0.0	0.0	0.000
3:31:00 PM	0.0	0.0	0.000
3:32:00 PM	0.0	0.0	0.000
3:33:00 PM	0.0	0.0	0.000
3:34:00 PM	0.0	0.0	0.000
3:35:00 PM	0.0	0.0	0.000
3:36:00 PM	0.0	0.0	0.000
3:37:00 PM	0.0	0.0	0.000
3:38:00 PM	0.0	0.0	0.000
3:39:00 PM	0.0	0.0	0.000
3:40:00 PM	0.0	0.0	0.000
3:41:00 PM	0.0	0.0	0.000
3:42:00 PM	0.0	0.0	0.000
3:43:00 PM	0.0	0.0	0.000
3:44:00 PM	0.0	0.0	0.000
3:45:00 PM	0.0	0.0	0.000
3:46:00 PM	0.0	0.0	0.000
3:47:00 PM	0.0	0.0	0.000
3:48:00 PM	0.0	0.0	0.000
3:49:00 PM	0.0	0.0	0.000
3:50:00 PM	0.0	0.0	0.000
3:51:00 PM	0.0	0.0	0.000
3:52:00 PM	0.0	0.0	0.000
3:53:00 PM	0.0	0.0	0.000
3:54:00 PM	0.0	0.0	0.000
3:55:00 PM	0.0	0.0	0.000
3:56:00 PM	0.0	0.0	0.000
3:57:00 PM	0.0	0.0	0.000
3:58:00 PM	0.0	0.0	0.000
3:59:00 PM	0.0	0.0	0.000
4:00:00 PM	0.0	0.0	0.000
4:01:00 PM	0.0	0.0	0.000
4:02:00 PM	0.0	0.0	0.000
4:03:00 PM	0.0	0.0	0.000
4:04:00 PM	0.0	0.0	0.000
4:05:00 PM	0.0	0.0	0.000
4:06:00 PM	0.0	0.0	0.000
4:07:00 PM	0.0	0.0	0.000
4:08:00 PM	0.0	0.0	0.000
4:09:00 PM	0.0	0.0	0.000
4:10:00 PM	0.0	0.0	0.000
4:11:00 PM	0.0	0.0	0.000
4:12:00 PM	0.0	0.0	0.000
4:13:00 PM	0.0	0.0	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
4:14:00 PM	0.0	0.0	0.000
4:15:00 PM	0.0	0.0	0.000
4:16:00 PM	0.0	0.0	0.000
4:17:00 PM	0.0	0.0	0.000
4:18:00 PM	0.0	0.0	0.000
4:19:00 PM	0.0	0.0	0.000
4:20:00 PM	0.0	0.0	0.000
4:21:00 PM	0.0	0.0	0.000
4:22:00 PM	0.0	0.0	0.000
4:23:00 PM	0.0	0.0	0.000
4:24:00 PM	0.0	0.0	0.000
4:25:00 PM	0.0	0.0	0.000
4:26:00 PM	0.0	0.0	0.000
4:27:00 PM	0.0	0.0	0.000
4:28:00 PM	0.0	0.0	0.000
4:29:00 PM	0.0	0.0	0.000
4:30:00 PM	0.0	0.0	0.000
4:31:00 PM	0.0	0.0	0.000
4:32:00 PM	0.0	0.0	0.000
4:33:00 PM	0.0	0.0	0.000
4:34:00 PM	0.0	0.0	0.000
4:35:00 PM	0.0	0.0	0.000
4:36:00 PM	0.0	0.0	0.000
4:37:00 PM	0.0	0.0	0.000
4:38:00 PM	0.0	0.0	0.000
4:39:00 PM	0.0	0.0	0.000
4:40:00 PM	0.0	0.0	0.000
4:41:00 PM	0.0	0.0	0.000
4:42:00 PM	0.0	0.0	0.000
4:43:00 PM	0.0	0.0	0.000
4:44:00 PM	0.0	0.0	0.000
4:45:00 PM	0.0	0.0	0.000
4:46:00 PM	0.0	0.0	0.000
4:47:00 PM	0.0	0.0	0.000
4:48:00 PM	0.0	0.0	0.000
4:49:00 PM	0.0	0.0	0.000
4:50:00 PM	0.0	0.0	0.000
4:51:00 PM	0.0	0.0	0.000
4:52:00 PM	0.0	0.0	0.000
4:53:00 PM	0.0	0.0	0.000
4:54:00 PM	0.0	0.0	0.000
4:55:00 PM	0.0	0.0	0.000
4:56:00 PM	0.0	0.0	0.000
4:57:00 PM	0.0	0.0	0.000
4:58:00 PM	0.0	0.0	0.000
4:59:00 PM	0.0	0.0	0.000
5:00:00 PM	0.0	0.0	0.000
5:01:00 PM	0.0	0.0	0.000
5:02:00 PM	0.0	0.0	0.000
5:03:00 PM	0.0	0.0	0.000
5:04:00 PM	0.0	0.0	0.000
5:05:00 PM	0.0	0.0	0.000
5:06:00 PM	0.0	0.0	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
5:07:00 PM	0.0	0.0	0.000
5:08:00 PM	0.0	0.0	0.000
5:09:00 PM	0.0	0.0	0.000
5:10:00 PM	0.0	0.0	0.000
5:11:00 PM	0.0	0.0	0.000
5:12:00 PM	0.0	0.0	0.000
5:13:00 PM	0.0	0.0	0.000
5:14:00 PM	0.0	0.0	0.000
5:15:00 PM	0.0	0.0	0.000
5:16:00 PM	0.0	0.0	0.000
5:17:00 PM	0.0	0.0	0.000
5:18:00 PM	0.0	0.0	0.000
5:19:00 PM	0.0	0.0	0.000
5:20:00 PM	0.0	0.0	0.000
5:21:00 PM	0.0	0.0	0.000
5:22:00 PM	0.0	0.0	0.000
5:23:00 PM	0.0	0.0	0.000
5:24:00 PM	0.0	0.0	0.000
5:25:00 PM	0.0	0.0	0.000
5:26:00 PM	0.0	0.0	0.000
5:27:00 PM	0.0	0.0	0.000
5:28:00 PM	0.0	0.0	0.000
5:29:00 PM	0.0	0.0	0.000
5:30:00 PM	0.0	0.0	0.000
5:31:00 PM	0.0	0.0	0.000
5:32:00 PM	0.0	0.0	0.000
5:33:00 PM	0.0	0.0	0.000
5:34:00 PM	0.0	0.0	0.000
5:35:00 PM	0.0	0.0	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:05:00 AM	0.0		0.000
9:06:00 AM	0.0		0.000
9:07:00 AM	0.0	0.053	0.000
9:08:00 AM	0.0	0.032	0.000
9:09:00 AM	0.0	0.030	0.000
9:10:00 AM	0.0	0.030	0.000
9:11:00 AM	0.0	0.030	0.000
9:12:00 AM	0.0	0.031	0.000
9:13:00 AM	0.0	0.039	0.000
9:14:00 AM	0.0	0.034	0.000
9:15:00 AM	0.0	0.033	0.000
9:16:00 AM	0.0	0.031	0.000
9:17:00 AM	0.0	0.036	0.000
9:18:00 AM	0.0	0.035	0.000
9:19:00 AM	0.0	0.033	0.000
9:20:00 AM	0.2	0.034	0.000
9:21:00 AM	0.0	0.034	0.000
9:22:00 AM	0.0	0.032	0.000
9:23:00 AM	0.0	0.031	0.000
9:24:00 AM	0.0	0.030	0.000
9:25:00 AM	0.0	0.034	0.000
9:26:00 AM	0.0	0.037	0.000
9:27:00 AM	0.0	0.043	0.000
9:28:00 AM	0.0	0.033	0.000
9:29:00 AM	0.0	0.032	0.000
9:30:00 AM	0.0	0.032	0.000
9:31:00 AM	0.0	0.040	0.000
9:32:00 AM	0.0	0.035	0.000
9:33:00 AM	0.0	0.029	0.000
9:34:00 AM	0.0	0.032	0.000
9:35:00 AM	0.0	0.036	0.000
9:36:00 AM	0.0	0.037	0.000
9:37:00 AM	0.0	0.048	0.000
9:38:00 AM	0.0	0.036	0.000
9:39:00 AM	0.0	0.032	0.000
9:40:00 AM	0.0	0.032	0.000
9:41:00 AM	0.0	0.036	0.000
9:42:00 AM	0.0	0.045	0.000
9:43:00 AM	0.0	0.034	0.000
9:44:00 AM	0.0	0.033	0.000
9:45:00 AM	0.0	0.038	0.000
9:46:00 AM	0.0	0.031	0.000
9:47:00 AM	0.0	0.032	0.000
9:48:00 AM	0.0	0.034	0.000
9:49:00 AM	0.0	0.036	0.000
9:50:00 AM	0.0	0.035	0.000
9:51:00 AM	0.0	0.042	0.000
9:52:00 AM	0.0	0.040	0.000
9:53:00 AM	0.0	0.034	0.000
9:54:00 AM	0.0	0.037	0.000
9:55:00 AM	0.0	0.032	0.000
9:56:00 AM	0.0	0.032	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:57:00 AM	0.0	0.032	0.000
9:58:00 AM	0.0	0.036	0.000
9:59:00 AM	0.0	0.036	0.000
10:00:00 AM	0.0	0.034	0.000
10:01:00 AM	0.0	0.042	0.000
10:02:00 AM	0.0	0.035	0.000
10:03:00 AM	0.0	0.035	0.000
10:04:00 AM	0.0	0.035	0.000
10:05:00 AM	0.0	0.061	0.000
10:06:00 AM	0.0	0.035	0.000
10:07:00 AM	0.0	0.031	0.000
10:08:00 AM	0.0	0.030	0.000
10:09:00 AM	0.0	0.042	0.000
10:10:00 AM	0.0	0.046	0.000
10:11:00 AM	0.0	0.034	0.000
10:12:00 AM	0.0	0.035	0.000
10:13:00 AM	0.0	0.030	0.000
10:14:00 AM	0.0	0.029	0.000
10:15:00 AM	0.0	0.029	0.000
10:16:00 AM	0.0	0.029	0.000
10:17:00 AM	0.0	0.029	0.000
10:18:00 AM	0.0	0.029	0.000
10:19:00 AM	0.0	0.028	0.000
10:20:00 AM	0.0	0.029	0.000
10:21:00 AM	0.0	0.029	0.000
10:22:00 AM	0.0	0.028	0.000
10:23:00 AM	0.0	0.029	0.000
10:24:00 AM	0.0	0.029	0.000
10:25:00 AM	0.0	0.031	0.000
10:26:00 AM	0.0	0.033	0.000
10:27:00 AM	0.0	0.030	0.000
10:28:00 AM	0.0	0.037	0.000
10:29:00 AM	0.0	0.034	0.000
10:30:00 AM	0.0	0.031	0.000
10:31:00 AM	0.0	0.030	0.000
10:32:00 AM	0.0	0.028	0.000
10:33:00 AM	0.0	0.030	0.000
10:34:00 AM	0.0	0.034	0.000
10:35:00 AM	0.0	0.033	0.000
10:36:00 AM	0.0	0.029	0.000
10:37:00 AM	0.0	0.031	0.000
10:38:00 AM	0.0	0.035	0.000
10:39:00 AM	0.0	0.026	0.000
10:40:00 AM	0.0	0.030	0.000
10:41:00 AM	0.0	0.030	0.000
10:42:00 AM	0.0	0.027	0.000
10:43:00 AM	0.0	0.042	0.000
10:44:00 AM	0.0	0.026	0.000
10:45:00 AM	0.0	0.026	0.000
10:46:00 AM	0.0	0.026	0.000
10:47:00 AM	0.0	0.026	0.000
10:48:00 AM	0.0	0.032	0.000
10:49:00 AM	0.0	0.028	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:50:00 AM	0.0	0.031	0.000
10:51:00 AM	0.0	0.034	0.000
10:52:00 AM	0.0	0.040	0.000
10:53:00 AM	0.0	0.032	0.000
10:54:00 AM	0.0	0.026	0.000
10:55:00 AM	0.0	0.025	0.000
10:56:00 AM	0.0	0.025	0.000
10:57:00 AM	0.0	0.025	0.000
10:58:00 AM	0.0	0.026	0.000
10:59:00 AM	0.0	0.025	0.000
11:00:00 AM	0.0	0.049	0.000
11:01:00 AM	0.0	0.038	0.000
11:02:00 AM	0.0	0.024	0.000
11:03:00 AM	0.0	0.023	0.000
11:04:00 AM	0.0	0.023	0.000
11:05:00 AM	0.0	0.029	0.000
11:06:00 AM	0.0	0.024	0.000
11:07:00 AM	0.0	0.024	0.000
11:08:00 AM	0.0	0.025	0.000
11:09:00 AM	0.0	0.025	0.000
11:10:00 AM	0.0	0.024	0.000
11:11:00 AM	0.0	0.024	0.000
11:12:00 AM	0.0	0.025	0.000
11:13:00 AM	0.0	0.025	0.000
11:14:00 AM	0.0	0.026	0.000
11:15:00 AM	0.0	0.032	0.000
11:16:00 AM	0.0	0.025	0.000
11:17:00 AM	0.0	0.022	0.000
11:18:00 AM	0.0	0.021	0.000
11:19:00 AM	0.0	0.021	0.000
11:20:00 AM	0.0	0.024	0.000
11:21:00 AM	0.0	0.021	0.000
11:22:00 AM	0.0	0.022	0.000
11:23:00 AM	0.0	0.021	0.000
11:24:00 AM	0.0	0.021	0.000
11:25:00 AM	0.0	0.021	0.000
11:26:00 AM	0.0	0.022	0.000
11:27:00 AM	0.0	0.023	0.000
11:28:00 AM	0.0	0.022	0.000
11:29:00 AM	0.0	0.021	0.000
11:30:00 AM	0.0	0.021	0.000
11:31:00 AM	0.0	0.021	0.000
11:32:00 AM	0.0	0.022	0.000
11:33:00 AM	0.0	0.022	0.000
11:34:00 AM	0.0	0.020	0.000
11:35:00 AM	0.0	0.020	0.000
11:36:00 AM	0.0	0.020	0.000
11:37:00 AM	0.0	0.020	0.000
11:38:00 AM	0.0	0.020	0.000
11:39:00 AM	0.0	0.021	0.000
11:40:00 AM	0.0	0.020	0.000
11:41:00 AM	0.0	0.022	0.000
11:42:00 AM	0.0	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:43:00 AM	0.0	0.019	0.000
11:44:00 AM	0.0	0.019	0.000
11:45:00 AM	0.0	0.019	0.000
11:46:00 AM	0.0	0.019	0.000
11:47:00 AM	0.0	0.019	0.000
11:48:00 AM	0.0	0.019	0.000
11:49:00 AM	0.0	0.019	0.000
11:50:00 AM	0.0	0.019	0.000
11:51:00 AM	0.0	0.019	0.000
11:52:00 AM	1.7	0.019	0.000
11:53:00 AM	0.0	0.049	0.000
11:54:00 AM	0.0	0.021	0.000
11:55:00 AM	0.0	0.019	0.000
11:56:00 AM	0.0	0.018	0.000
11:57:00 AM	0.0	0.018	0.000
11:58:00 AM	0.0	0.018	0.000
11:59:00 AM	0.0	0.019	0.000
12:00:00 PM	0.0	0.017	0.000
12:01:00 PM	0.0	0.017	0.000
12:02:00 PM	0.0	0.017	0.000
12:03:00 PM	0.0	0.016	0.000
12:04:00 PM	0.0	0.015	0.000
12:05:00 PM	0.0	0.016	0.000
12:06:00 PM	0.0	0.015	0.000
12:07:00 PM	0.0	0.016	0.000
12:08:00 PM	0.0	0.024	0.000
12:09:00 PM	0.0	0.017	0.000
12:10:00 PM	0.0	0.015	0.000
12:11:00 PM	0.0	0.015	0.000
12:12:00 PM	0.0	0.015	0.000
12:13:00 PM	0.0	0.015	0.000
12:14:00 PM	0.0	0.015	0.000
12:15:00 PM	0.0	0.016	0.000
12:16:00 PM	0.2	0.015	0.000
12:17:00 PM	0.0	0.015	0.000
12:18:00 PM	0.0	0.015	0.000
12:19:00 PM	0.0	0.015	0.000
12:20:00 PM	0.0	0.015	0.000
12:21:00 PM	0.0	0.014	0.000
12:22:00 PM	0.0	0.015	0.000
12:23:00 PM	0.0	0.015	0.000
12:24:00 PM	0.0	0.015	0.000
12:25:00 PM	0.0	0.015	0.000
12:26:00 PM	0.0	0.015	0.000
12:27:00 PM	0.1	0.015	0.000
12:28:00 PM	0.1	0.015	0.000
12:29:00 PM	0.0	0.015	0.000
12:30:00 PM	0.0	0.015	0.000
12:31:00 PM	0.0	0.014	0.000
12:32:00 PM	0.0	0.014	0.000
12:33:00 PM	0.0	0.014	0.000
12:34:00 PM	0.0	0.015	0.000
12:35:00 PM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:36:00 PM	0.0	0.014	0.000
12:37:00 PM	0.0	0.014	0.000
12:38:00 PM	0.0	0.014	0.000
12:39:00 PM	0.0	0.014	0.000
12:40:00 PM	0.0	0.014	0.000
12:41:00 PM	0.0	0.014	0.000
12:42:00 PM	0.0	0.014	0.000
12:43:00 PM	0.1	0.014	0.000
12:44:00 PM	0.0	0.014	0.000
12:45:00 PM	0.0	0.013	0.000
12:46:00 PM	0.0	0.014	0.000
12:47:00 PM	0.0	0.013	0.000
12:48:00 PM	3.1	0.014	0.000
12:49:00 PM	0.7	0.013	0.000
12:50:00 PM	10.3	0.014	0.000
12:51:00 PM	0.5	0.013	0.000
12:52:00 PM	0.1	0.012	0.000
12:53:00 PM	1.3	0.012	0.000
12:54:00 PM	1.4	0.011	0.000
12:55:00 PM	0.3	0.011	0.000
12:56:00 PM	0.0	0.011	0.000
12:57:00 PM	0.4	0.011	0.000
12:58:00 PM	1.1	0.011	0.000
12:59:00 PM	0.2	0.011	0.000
1:00:00 PM	0.5	0.010	0.000
1:01:00 PM	0.0	0.011	0.000
1:02:00 PM	0.0	0.011	0.000
1:03:00 PM	0.0	0.011	0.000
1:04:00 PM	0.0	0.010	0.000
1:05:00 PM	0.0	0.010	0.000
1:06:00 PM	0.0	0.011	0.000
1:07:00 PM	0.0	0.011	0.000
1:08:00 PM	0.5	0.010	0.000
1:09:00 PM	0.1	0.010	0.000
1:10:00 PM	0.0	0.011	0.000
1:11:00 PM	0.0	0.011	0.000
1:12:00 PM	0.0	0.010	0.000
1:13:00 PM	0.0	0.010	0.000
1:14:00 PM	0.0	0.011	0.000
1:15:00 PM	0.0	0.011	0.000
1:16:00 PM	0.4	0.010	0.000
1:17:00 PM	0.4	0.022	0.000
1:18:00 PM	0.1	0.009	0.000
1:19:00 PM	0.1	0.009	0.000
1:20:00 PM	0.1	0.009	0.000
1:21:00 PM	0.0	0.009	0.000
1:22:00 PM	0.1	0.009	0.000
1:23:00 PM	0.0	0.009	0.000
1:24:00 PM	0.2	0.009	0.000
1:25:00 PM	0.2	0.009	0.000
1:26:00 PM	0.2	0.009	0.000
1:27:00 PM	0.2	0.011	0.000
1:28:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:29:00 PM	0.0	0.011	0.000
1:30:00 PM	0.0	0.010	0.000
1:31:00 PM	0.0	0.011	0.000
1:32:00 PM	0.0	0.010	0.000
1:33:00 PM	0.1	0.011	0.000
1:34:00 PM	0.0	0.011	0.000
1:35:00 PM	0.0	0.011	0.000
1:36:00 PM	0.1	0.011	0.000
1:37:00 PM	0.1	0.012	0.000
1:38:00 PM	0.1	0.012	0.000
1:39:00 PM	0.1	0.011	0.000
1:40:00 PM	0.1	0.011	0.000
1:41:00 PM	0.0	0.011	0.000
1:42:00 PM	0.1	0.011	0.000
1:43:00 PM	0.1	0.011	0.000
1:44:00 PM	0.3	0.011	0.000
1:45:00 PM	0.1	0.011	0.000
1:46:00 PM	0.1	0.013	0.000
1:47:00 PM	0.2	0.011	0.000
1:48:00 PM	0.2	0.012	0.000
1:49:00 PM	0.2	0.012	0.000
1:50:00 PM	0.2	0.011	0.000
1:51:00 PM	0.2	0.011	0.000
1:52:00 PM	0.3	0.018	0.000
1:53:00 PM	0.2	0.013	0.000
1:54:00 PM	0.2	0.011	0.000
1:55:00 PM	0.2	0.011	0.000
1:56:00 PM	0.3	0.013	0.000
1:57:00 PM	0.1	0.012	0.000
1:58:00 PM	0.2	0.013	0.000
1:59:00 PM	0.1	0.011	0.000
2:00:00 PM	0.1	0.011	0.000
2:01:00 PM	0.2	0.012	0.000
2:02:00 PM	0.2	0.013	0.000
2:03:00 PM	0.2	0.012	0.000
2:04:00 PM	0.2	0.013	0.000
2:05:00 PM	0.1	0.015	0.000
2:06:00 PM	0.3	0.019	0.000
2:07:00 PM	0.4	0.013	0.000
2:08:00 PM	0.2	0.013	0.000
2:09:00 PM	0.2	0.016	0.000
2:10:00 PM	0.2	0.014	0.000
2:11:00 PM	0.1	0.012	0.000
2:12:00 PM	0.2	0.014	0.000
2:13:00 PM	0.3	0.013	0.000
2:14:00 PM	0.3	0.013	0.000
2:15:00 PM	0.2	0.013	0.000
2:16:00 PM	0.2	0.011	0.000
2:17:00 PM	0.1	0.011	0.000
2:18:00 PM	0.1	0.010	0.000
2:19:00 PM	0.1	0.011	0.000
2:20:00 PM	0.2	0.014	0.000
2:21:00 PM	0.2	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:22:00 PM	0.2	0.012	0.000
2:23:00 PM	0.3	0.013	0.000
2:24:00 PM	0.2	0.013	0.000
2:25:00 PM	0.1	0.012	0.000
2:26:00 PM	0.1	0.012	0.000
2:27:00 PM	0.2	0.011	0.000
2:28:00 PM	0.1	0.012	0.000
2:29:00 PM	0.2	0.012	0.000
2:30:00 PM	0.2	0.011	0.000
2:31:00 PM	0.6	0.043	0.000
2:32:00 PM	0.7	0.013	0.000
2:33:00 PM	0.3	0.017	0.000
2:34:00 PM	0.3	0.012	0.000
2:35:00 PM	0.3	0.034	0.000
2:36:00 PM	0.3	0.016	0.000
2:37:00 PM	0.2	0.015	0.000
2:38:00 PM	0.2	0.015	0.000
2:39:00 PM	0.2	0.013	0.000
2:40:00 PM	0.2	0.013	0.000
2:41:00 PM	0.2	0.011	0.000
2:42:00 PM	0.2	0.011	0.000
2:43:00 PM	0.1	0.012	0.000
2:44:00 PM	0.2	0.011	0.000
2:45:00 PM	0.2	0.011	0.000
2:46:00 PM	0.2	0.010	0.000
2:47:00 PM	0.2	0.011	0.000
2:48:00 PM	0.2	0.011	0.000
2:49:00 PM	0.2	0.011	0.000
2:50:00 PM	0.1	0.014	0.000
2:51:00 PM	0.1	0.012	0.000
2:52:00 PM	0.1	0.011	0.000
2:53:00 PM	0.2	0.011	0.000
2:54:00 PM	0.1	0.011	0.000
2:55:00 PM	0.1	0.011	0.000
2:56:00 PM	0.1	0.011	0.000
2:57:00 PM	0.1	0.011	0.000
2:58:00 PM	0.1	0.011	0.000
2:59:00 PM	0.1	0.013	0.000
3:00:00 PM	0.1	0.011	0.000
3:01:00 PM	0.2	0.011	0.000
3:02:00 PM	0.1	0.012	0.000
3:03:00 PM	0.1	0.011	0.000
3:04:00 PM	0.3	0.015	0.000
3:05:00 PM	0.2	0.012	0.000
3:06:00 PM	0.3	0.011	0.000
3:07:00 PM	0.4	0.010	0.000
3:08:00 PM	0.5	0.011	0.000
3:09:00 PM	0.2	0.011	0.000
3:10:00 PM	0.2	0.012	0.000
3:11:00 PM	0.2	0.012	0.000
3:12:00 PM	0.2	0.012	0.000
3:13:00 PM	0.2	0.011	0.000
3:14:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
3:15:00 PM	0.2	0.011	0.000
3:16:00 PM	0.2	0.012	0.000
3:17:00 PM	0.1	0.011	0.000
3:18:00 PM	0.1	0.011	0.000
3:19:00 PM	0.2	0.011	0.000
3:20:00 PM	0.2	0.011	0.000
3:21:00 PM	0.2	0.011	0.000
3:22:00 PM	0.2	0.011	0.000
3:23:00 PM	0.2	0.011	0.000
3:24:00 PM	0.2	0.011	0.000
3:25:00 PM	0.2	0.011	0.000
3:26:00 PM	0.2	0.011	0.000
3:27:00 PM	0.1	0.011	0.000
3:28:00 PM	0.2	0.011	0.000
3:29:00 PM	0.1	0.011	0.000
3:30:00 PM	0.3	0.012	0.000
3:31:00 PM	0.6	0.012	0.000
3:32:00 PM	0.5	0.011	0.000
3:33:00 PM	0.1	0.011	0.000
3:34:00 PM	0.2	0.012	0.000
3:35:00 PM	0.3	0.011	0.000
3:36:00 PM	0.1	0.010	0.000
3:37:00 PM	0.2	0.009	0.000
3:38:00 PM	0.1	0.008	0.000
3:39:00 PM	0.1	0.009	0.000
3:40:00 PM	0.1	0.008	0.000
3:41:00 PM	0.1	0.009	0.000
3:42:00 PM	0.1	0.011	0.000
3:43:00 PM	0.1	0.011	0.000
3:44:00 PM	0.1	0.010	0.000
3:45:00 PM	0.1	0.012	0.000
3:46:00 PM	0.0	0.011	0.000
3:47:00 PM	0.2	0.010	0.000
3:48:00 PM	0.1	0.009	0.000
3:49:00 PM	0.2	0.010	0.000
3:50:00 PM	0.1	0.008	0.000
3:51:00 PM	0.0	0.010	0.000
3:52:00 PM	0.0	0.009	0.000
3:53:00 PM	0.0	0.008	0.000
3:54:00 PM	0.1	0.008	0.000
3:55:00 PM	0.1	0.008	0.000
3:56:00 PM	0.0	0.008	0.000
3:57:00 PM	0.0	0.007	0.000
3:58:00 PM	0.1	0.008	0.000
3:59:00 PM	0.1	0.008	0.000
4:00:00 PM	0.1	0.008	0.000
4:01:00 PM	0.0	0.008	0.000
4:02:00 PM	0.1	0.008	0.000
4:03:00 PM	0.1	0.007	0.000
4:04:00 PM	0.0	0.008	0.000
4:05:00 PM	0.0	0.010	0.000
4:06:00 PM	0.1	0.008	0.000
4:07:00 PM	0.2	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
4:08:00 PM	0.1	0.013	0.000
4:09:00 PM	0.1	0.010	0.000
4:10:00 PM	0.1	0.010	0.000
4:11:00 PM	0.1	0.011	0.000
4:12:00 PM	0.1	0.010	0.000
4:13:00 PM	0.1	0.012	0.000
4:14:00 PM	0.1	0.008	0.000
4:15:00 PM	0.2	0.008	0.000
4:16:00 PM	0.1	0.008	0.000
4:17:00 PM	0.1	0.008	0.000
4:18:00 PM	0.2	0.008	0.000
4:19:00 PM	0.1	0.009	0.000
4:20:00 PM	0.1	0.009	0.000
4:21:00 PM	0.2	0.009	0.000
4:22:00 PM	0.1	0.009	0.000
4:23:00 PM	0.1	0.009	0.000
4:24:00 PM	0.1	0.009	0.000
4:25:00 PM	0.6	0.009	0.000
4:26:00 PM	0.6	0.010	0.000
4:27:00 PM	0.2	0.010	0.000
4:28:00 PM	0.4	0.010	0.000
4:29:00 PM	0.2	0.010	0.000
4:30:00 PM	0.2	0.010	0.000
4:31:00 PM	0.2	0.010	0.000
4:32:00 PM	0.2	0.009	0.000
4:33:00 PM	0.1	0.009	0.000
4:34:00 PM	0.1	0.009	0.000
4:35:00 PM	0.1	0.010	0.000
4:36:00 PM	0.1	0.010	0.000
4:37:00 PM	0.2	0.010	0.000
4:38:00 PM	0.1	0.010	0.000
4:39:00 PM	0.1	0.009	0.000
4:40:00 PM	0.1	0.009	0.000
4:41:00 PM	0.3	0.012	0.000
4:42:00 PM	0.2	0.010	0.000
4:43:00 PM	0.3	0.010	0.000
4:44:00 PM	0.1	0.009	0.000
4:45:00 PM	0.1	0.009	0.000
4:46:00 PM	0.1	0.009	0.000
4:47:00 PM	0.1	0.009	0.000
4:48:00 PM	0.0	0.009	0.000
4:49:00 PM	0.2	0.010	0.000
4:50:00 PM	0.7	0.010	0.000
4:51:00 PM	0.2	0.010	0.000
4:52:00 PM	0.3	0.010	0.000
4:53:00 PM	0.2	0.010	0.000
4:54:00 PM	0.1	0.010	0.000
4:55:00 PM	0.1	0.011	0.000
4:56:00 PM	0.1	0.010	0.000
4:57:00 PM	0.1	0.010	0.000
4:58:00 PM	0.2	0.010	0.000
4:59:00 PM	0.1	0.010	0.000
5:00:00 PM	0.1	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 17, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
5:01:00 PM	0.1	0.010	0.000
5:02:00 PM	0.3	0.010	0.000
5:03:00 PM	0.1	0.010	0.000
5:04:00 PM	0.1	0.010	0.000
5:05:00 PM	0.1	0.010	0.000
5:06:00 PM	0.2	0.010	0.000
5:07:00 PM	0.2	0.009	0.000
5:08:00 PM	0.1	0.010	0.000
5:09:00 PM	0.1	0.010	0.000
5:10:00 PM	0.1	0.009	0.000
5:11:00 PM	0.1	0.008	0.000
5:12:00 PM	0.1	0.009	0.000
5:13:00 PM	0.1	0.009	0.000
5:14:00 PM	0.1	0.008	0.000
5:15:00 PM	0.1	0.009	0.000
5:16:00 PM	0.1	0.009	0.000
5:17:00 PM	0.2	0.010	0.000
5:18:00 PM	0.1	0.010	0.000
5:19:00 PM	0.2	0.010	0.000
5:20:00 PM	0.5	0.011	0.000
5:21:00 PM	0.5	0.011	0.000
5:22:00 PM	0.7	0.011	0.000
5:23:00 PM	0.1	0.017	0.000
5:24:00 PM	0.3	0.011	0.000
5:25:00 PM	0.1	0.011	0.000
5:26:00 PM	0.3	0.014	0.000
5:27:00 PM	0.2	0.017	0.000
5:28:00 PM	0.7	0.011	0.000
5:29:00 PM	0.3	0.010	0.000
5:30:00 PM	0.3	0.010	0.000
5:31:00 PM	0.1	0.010	0.000
5:32:00 PM	0.1	0.012	0.000
5:33:00 PM	0.2	0.013	0.000
5:34:00 PM	0.2	0.013	0.000
5:35:00 PM	0.1	0.011	0.000
5:36:00 PM	0.1	0.011	0.000
5:37:00 PM	0.1	0.011	0.000
5:38:00 PM	0.1	0.010	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~16 mph	Date:	3/18/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15. Aarco loading out soils for disposal at Clean Earth. Aarco sends two loads of soil to Clean Earth for disposal.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp Due to Rain					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- None



Aarco loading out first load of soils for transport to Clean Earth.



View of flooded excavation due to water line leak.

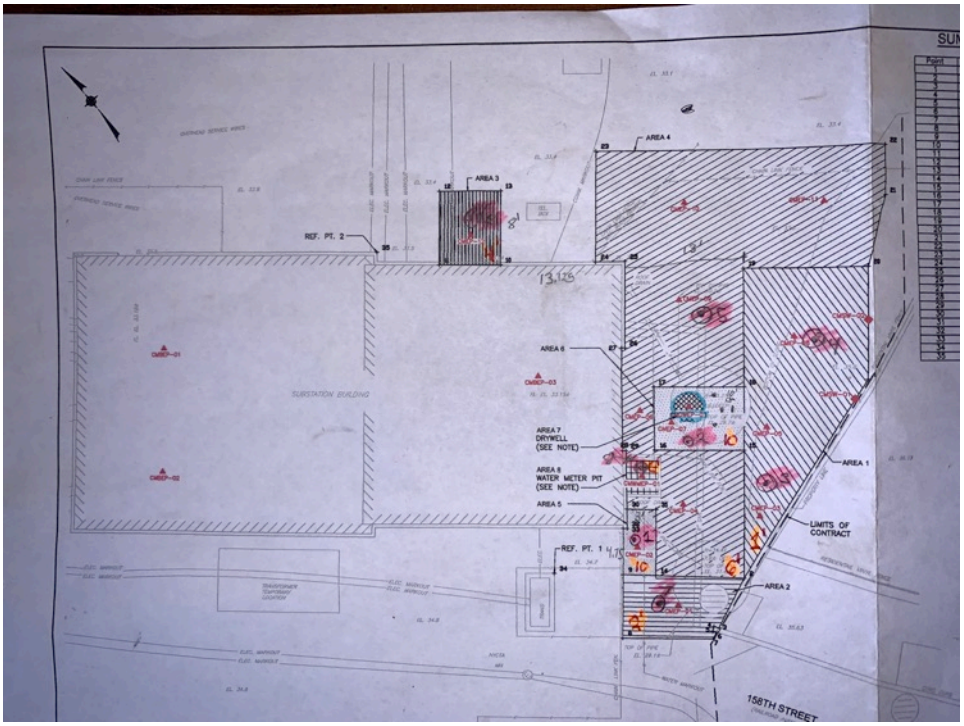


Aarco loading out second load of soils for disposal.



Aarco covering stockpile at the end of the day.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~ 23 mph	Date:	3/19/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 8:30 am. Aarco and JCC onsite waiting for DEP inspector. LIRR plumbers onsite, start dewatering excavation in an attempt to expose the cracked water line. DEP arrives onsite at 10:30 to assess leak, instructs JCC to notify DEP that they need a shutdown of the valves at the intersection of 158th street and 111th Avenue. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.006	0.000	0.1	0.006	0.000
Down Wind	0.0	0.007	0.000	0.0	0.007	0.000
Work Zone	0.0	0.007	0.000	0.0	0.008	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will mobilized to the site to attempt water line repair with DEP water main shutdown.



LIRR plumbers attempting to pump down excavation.



JCC attempting to expose leaking pipe that enters water meter box.

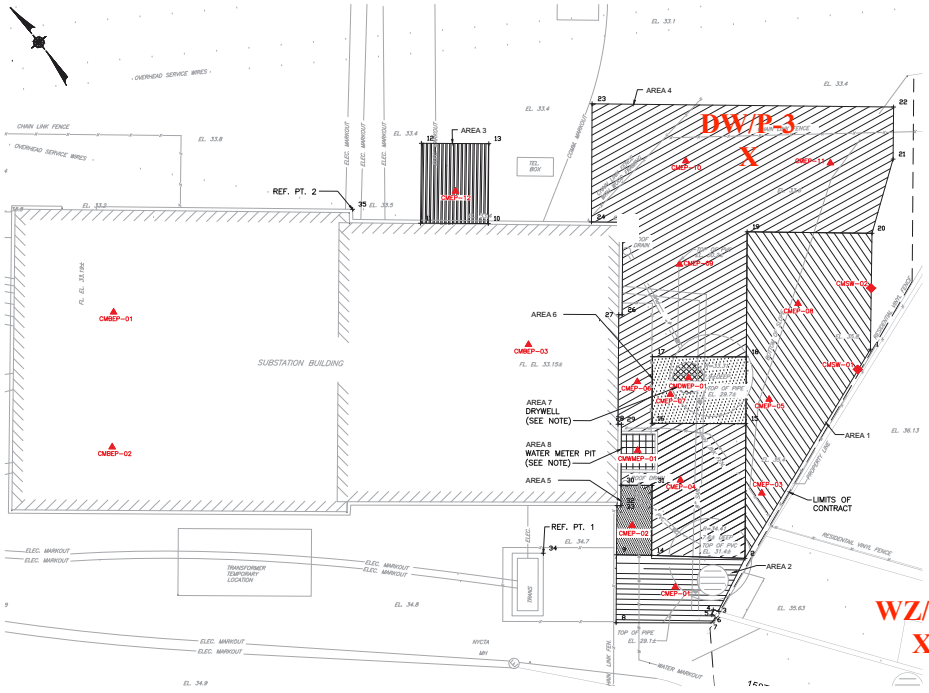


View of stuck valve and abandoned 1" water line valve.



Aarco closing up site to wait for DEP response to shut down water main.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
8:53:00 AM	0.0		0.000
8:54:00 AM	0.0	0.032	0.000
8:55:00 AM	0.0	0.007	0.000
8:56:00 AM	0.0	0.005	0.000
8:57:00 AM	0.0	0.005	0.000
8:58:00 AM	0.0	0.005	0.000
8:59:00 AM	0.0	0.005	0.000
9:00:00 AM	0.0	0.005	0.000
9:01:00 AM	0.0	0.005	0.000
9:02:00 AM	0.0	0.005	0.000
9:03:00 AM	0.0	0.005	0.000
9:04:00 AM	0.0	0.005	0.000
9:05:00 AM	0.0	0.006	0.000
9:06:00 AM	0.0	0.006	0.000
9:07:00 AM	0.0	0.005	0.000
9:08:00 AM	0.0	0.004	0.000
9:09:00 AM	0.0	0.005	0.000
9:10:00 AM	0.0	0.005	0.000
9:11:00 AM	0.0	0.004	0.000
9:12:00 AM	0.0	0.004	0.000
9:13:00 AM	0.0	0.005	0.000
9:14:00 AM	0.0	0.005	0.000
9:15:00 AM	0.0	0.005	0.000
9:16:00 AM	0.0	0.005	0.000
9:17:00 AM	0.0	0.005	0.000
9:18:00 AM	0.0	0.004	0.000
9:19:00 AM	0.0	0.005	0.000
9:20:00 AM	0.0	0.005	0.000
9:21:00 AM	0.0	0.005	0.000
9:22:00 AM	0.0	0.005	0.000
9:23:00 AM	0.0	0.005	0.000
9:24:00 AM	0.0	0.006	0.000
9:25:00 AM	0.0	0.005	0.000
9:26:00 AM	0.0	0.005	0.000
9:27:00 AM	0.0	0.005	0.000
9:28:00 AM	0.0	0.005	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.005	0.000
9:31:00 AM	0.0	0.005	0.000
9:32:00 AM	0.0	0.005	0.000
9:33:00 AM	0.0	0.005	0.000
9:34:00 AM	0.0	0.006	0.000
9:35:00 AM	0.0	0.007	0.000
9:36:00 AM	0.0	0.005	0.000
9:37:00 AM	0.0	0.006	0.000
9:38:00 AM	0.0	0.005	0.000
9:39:00 AM	0.0	0.005	0.000
9:40:00 AM	0.0	0.005	0.000
9:41:00 AM	0.0	0.005	0.000
9:42:00 AM	0.0	0.005	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:45:00 AM	0.0	0.005	0.000
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.005	0.000
9:48:00 AM	0.0	0.005	0.000
9:49:00 AM	0.0	0.005	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.005	0.000
9:53:00 AM	0.0	0.005	0.000
9:54:00 AM	0.0	0.005	0.000
9:55:00 AM	0.0	0.005	0.000
9:56:00 AM	0.0	0.005	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.005	0.000
9:59:00 AM	0.0	0.014	0.000
10:00:00 AM	0.0	0.008	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.005	0.000
10:03:00 AM	0.0	0.005	0.000
10:04:00 AM	0.0	0.005	0.000
10:05:00 AM	0.0	0.005	0.000
10:06:00 AM	0.0	0.006	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.006	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.005	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.006	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.006	0.000
10:17:00 AM	0.0	0.006	0.000
10:18:00 AM	0.0	0.005	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.006	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.005	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.005	0.000
10:30:00 AM	0.0	0.005	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.005	0.000
10:35:00 AM	0.0	0.006	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:38:00 AM	0.0	0.007	0.000
10:39:00 AM	0.0	0.006	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.006	0.000
10:42:00 AM	0.0	0.006	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.006	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.006	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.006	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.006	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.006	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.006	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.005	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.006	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.006	0.000
11:01:00 AM	0.0	0.006	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.005	0.000
11:04:00 AM	0.0	0.006	0.000
11:05:00 AM	0.0	0.006	0.000
11:06:00 AM	0.1	0.008	0.000
11:07:00 AM	0.0	0.007	0.000
11:08:00 AM	0.0	0.006	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.006	0.000
11:14:00 AM	0.7	0.006	0.000
11:15:00 AM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
8:56:00 AM	0.0		0.000
8:57:00 AM	0.0	0.100	0.000
8:58:00 AM	0.0	0.006	0.000
8:59:00 AM	0.0	0.005	0.000
9:00:00 AM	0.0	0.005	0.000
9:01:00 AM	0.0	0.005	0.000
9:02:00 AM	0.0	0.007	0.000
9:03:00 AM	0.0	0.006	0.000
9:04:00 AM	0.0	0.006	0.000
9:05:00 AM	0.0	0.006	0.000
9:06:00 AM	0.0	0.006	0.000
9:07:00 AM	0.0	0.005	0.000
9:08:00 AM	0.0	0.006	0.000
9:09:00 AM	0.0	0.006	0.000
9:10:00 AM	0.0	0.007	0.000
9:11:00 AM	0.0	0.005	0.000
9:12:00 AM	0.0	0.005	0.000
9:13:00 AM	0.0	0.006	0.000
9:14:00 AM	0.0	0.006	0.000
9:15:00 AM	0.0	0.007	0.000
9:16:00 AM	0.0	0.006	0.000
9:17:00 AM	0.0	0.010	0.000
9:18:00 AM	0.0	0.007	0.000
9:19:00 AM	0.0	0.006	0.000
9:20:00 AM	0.0	0.005	0.000
9:21:00 AM	0.0	0.005	0.000
9:22:00 AM	0.0	0.005	0.000
9:23:00 AM	0.0	0.006	0.000
9:24:00 AM	0.0	0.006	0.000
9:25:00 AM	0.0	0.006	0.000
9:26:00 AM	0.0	0.006	0.000
9:27:00 AM	0.0	0.006	0.000
9:28:00 AM	0.0	0.006	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.005	0.000
9:31:00 AM	0.0	0.009	0.000
9:32:00 AM	0.0	0.018	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.008	0.000
9:35:00 AM	0.0	0.009	0.000
9:36:00 AM	0.0	0.006	0.000
9:37:00 AM	0.0	0.007	0.000
9:38:00 AM	0.0	0.006	0.000
9:39:00 AM	0.0	0.006	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.006	0.000
9:42:00 AM	0.0	0.006	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.005	0.000
9:45:00 AM	0.0	0.006	0.000
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.009	0.000
9:51:00 AM	0.0	0.008	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.008	0.000
9:54:00 AM	0.0	0.006	0.000
9:55:00 AM	0.0	0.006	0.000
9:56:00 AM	0.1	0.006	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.007	0.000
10:00:00 AM	0.0	0.006	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.6	0.006	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.006	0.000
10:06:00 AM	0.0	0.006	0.000
10:07:00 AM	0.0	0.006	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.006	0.000
10:10:00 AM	0.0	0.006	0.000
10:11:00 AM	0.0	0.006	0.000
10:12:00 AM	0.0	0.006	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.006	0.000
10:15:00 AM	0.0	0.006	0.000
10:16:00 AM	0.0	0.006	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.006	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.006	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.006	0.000
10:27:00 AM	0.0	0.006	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.008	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.012	0.000
10:32:00 AM	0.0	0.006	0.000
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.006	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.006	0.000
10:38:00 AM	0.0	0.006	0.000
10:39:00 AM	0.0	0.006	0.000
10:40:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.006	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.006	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.005	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.006	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.006	0.000
10:57:00 AM	0.0	0.006	0.000
10:58:00 AM	0.0	0.005	0.000
10:59:00 AM	0.0	0.005	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.006	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.005	0.000
11:05:00 AM	0.0	0.005	0.000
11:06:00 AM	0.0	0.005	0.000
11:07:00 AM	0.0	0.005	0.000
11:08:00 AM	0.0	0.005	0.000
11:09:00 AM	0.0	0.005	0.000
11:10:00 AM	0.0	0.005	0.000
11:11:00 AM	0.0	0.005	0.000
11:12:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:26:00 AM	0.0	0.007	0.000
9:27:00 AM	0.0	0.007	0.000
9:28:00 AM	0.0	0.007	0.000
9:29:00 AM	0.0	0.007	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.007	0.000
9:32:00 AM	0.0	0.007	0.000
9:33:00 AM	0.0	0.007	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.012	0.000
9:36:00 AM	0.0	0.007	0.000
9:37:00 AM	0.0	0.008	0.000
9:38:00 AM	0.0	0.007	0.000
9:39:00 AM	0.0	0.006	0.000
9:40:00 AM	0.0	0.007	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.0	0.007	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.0	0.006	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.006	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000
9:51:00 AM	0.0	0.007	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.006	0.000
9:54:00 AM	0.0	0.007	0.000
9:55:00 AM	0.0	0.007	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.0	0.008	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.008	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.007	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.007	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.007	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.006	0.000
10:13:00 AM	0.0	0.007	0.000
10:14:00 AM	0.0	0.007	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:18:00 AM	0.0	0.007	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.008	0.000
10:24:00 AM	0.0	0.007	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.1	0.007	0.000
10:27:00 AM	0.1	0.007	0.000
10:28:00 AM	0.0	0.007	0.000
10:29:00 AM	0.2	0.007	0.000
10:30:00 AM	0.0	0.007	0.000
10:31:00 AM	0.0	0.007	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.007	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.007	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.007	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.007	0.000
10:43:00 AM	0.0	0.009	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.007	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.007	0.000
10:48:00 AM	0.0	0.008	0.000
10:49:00 AM	0.0	0.008	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.008	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.008	0.000
10:57:00 AM	0.0	0.008	0.000
10:58:00 AM	0.0	0.007	0.000
10:59:00 AM	0.0	0.007	0.000
11:00:00 AM	0.0	0.007	0.000
11:01:00 AM	0.0	0.007	0.000
11:02:00 AM	0.0	0.007	0.000
11:03:00 AM	0.0	0.007	0.000
11:04:00 AM	0.0	0.007	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.008	0.000
11:07:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 19, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From WSW ~ 12 mph	Date:	3/30/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco starts excavating area #4 in area of former water line leak utilizing soil guzzler truck. All soils are excavated down to six (6) feet bgs. Aarco installing shoring posts/plywood and box within the area to be excavated to support the fencing and foundation of the substation. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.008	0.000	0.0	0.010	0.000
Down Wind	0.0	0.012	0.000	0.0	0.025	0.000
Work Zone	0.0	0.005	0.000	0.0	0.007	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue with the excavation of area #4 and #5.



Aarco utilizing soil guzzler to remove soils.



Aarco excavating all soils with soil guzzler hose.

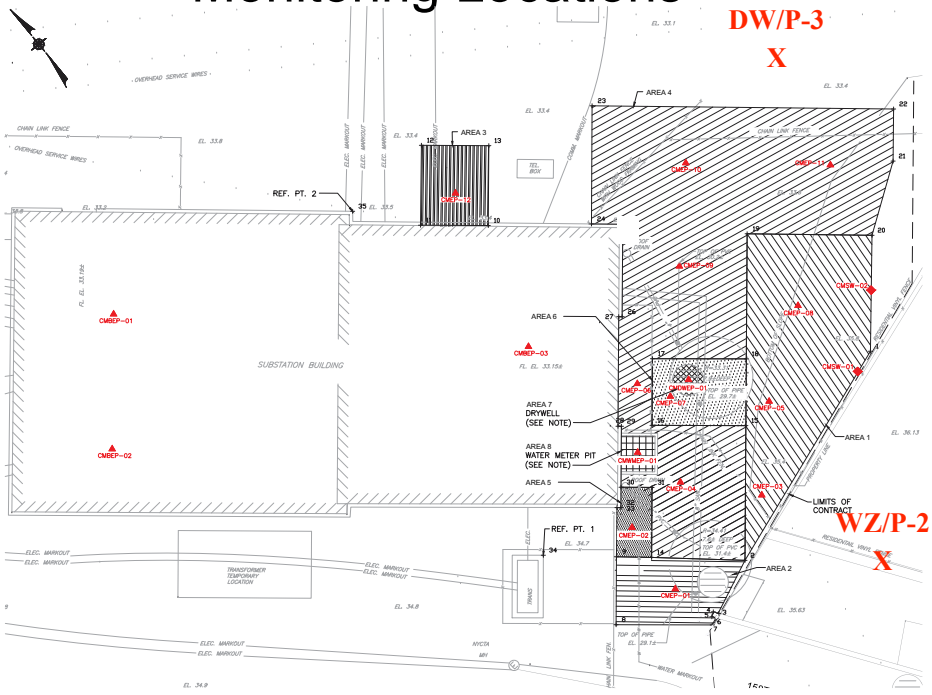


Aarco installing posts for shoring.



Plywood shoring installed.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:29:00 AM	0.0		0.000
9:30:00 AM	0.0		0.000
9:31:00 AM	0.0	0.027	0.000
9:32:00 AM	0.0	0.007	0.000
9:33:00 AM	0.0	0.008	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.007	0.000
9:36:00 AM	0.0	0.007	0.000
9:37:00 AM	0.0	0.007	0.000
9:38:00 AM	0.0	0.008	0.000
9:39:00 AM	0.0	0.010	0.000
9:40:00 AM	0.0	0.009	0.000
9:41:00 AM	0.0	0.009	0.000
9:42:00 AM	0.0	0.007	0.000
9:43:00 AM	0.0	0.007	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.0	0.007	0.000
9:46:00 AM	0.0	0.007	0.000
9:47:00 AM	0.0	0.009	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000
9:51:00 AM	0.0	0.007	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.007	0.000
9:54:00 AM	0.0	0.008	0.000
9:55:00 AM	0.0	0.007	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.008	0.000
9:59:00 AM	0.0	0.008	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.009	0.000
10:02:00 AM	0.0	0.008	0.000
10:03:00 AM	0.0	0.008	0.000
10:04:00 AM	0.0	0.007	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.007	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.007	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.008	0.000
10:12:00 AM	0.0	0.012	0.000
10:13:00 AM	0.0	0.008	0.000
10:14:00 AM	0.0	0.008	0.000
10:15:00 AM	0.0	0.007	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.008	0.000
10:18:00 AM	0.0	0.008	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:21:00 AM	0.0	0.007	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.007	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.011	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.007	0.000
10:32:00 AM	0.0	0.007	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.007	0.000
10:36:00 AM	0.0	0.009	0.000
10:37:00 AM	0.0	0.008	0.000
10:38:00 AM	0.0	0.008	0.000
10:39:00 AM	0.0	0.007	0.000
10:40:00 AM	0.0	0.008	0.000
10:41:00 AM	0.0	0.007	0.000
10:42:00 AM	0.0	0.009	0.000
10:43:00 AM	0.0	0.007	0.000
10:44:00 AM	0.0	0.007	0.000
10:45:00 AM	0.0	0.009	0.000
10:46:00 AM	0.0	0.007	0.000
10:47:00 AM	0.0	0.008	0.000
10:48:00 AM	0.0	0.007	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.007	0.000
10:52:00 AM	0.0	0.009	0.000
10:53:00 AM	0.0	0.007	0.000
10:54:00 AM	0.0	0.007	0.000
10:55:00 AM	0.0	0.007	0.000
10:56:00 AM	0.0	0.007	0.000
10:57:00 AM	0.0	0.007	0.000
10:58:00 AM	0.0	0.008	0.000
10:59:00 AM	0.0	0.009	0.000
11:00:00 AM	0.0	0.009	0.000
11:01:00 AM	0.0	0.009	0.000
11:02:00 AM	0.0	0.008	0.000
11:03:00 AM	0.0	0.008	0.000
11:04:00 AM	0.0	0.008	0.000
11:05:00 AM	0.0	0.009	0.000
11:06:00 AM	0.0	0.010	0.000
11:07:00 AM	0.0	0.017	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.0	0.009	0.000
11:10:00 AM	0.0	0.009	0.000
11:11:00 AM	0.0	0.008	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:14:00 AM	0.0	0.011	0.000
11:15:00 AM	0.0	0.019	0.000
11:16:00 AM	0.0	0.009	0.000
11:17:00 AM	0.0	0.009	0.000
11:18:00 AM	0.0	0.008	0.000
11:19:00 AM	0.0	0.010	0.000
11:20:00 AM	0.0	0.009	0.000
11:21:00 AM	0.0	0.009	0.000
11:22:00 AM	0.0	0.010	0.000
11:23:00 AM	0.0	0.010	0.000
11:24:00 AM	0.0	0.009	0.000
11:25:00 AM	0.0	0.009	0.000
11:26:00 AM	0.0	0.009	0.000
11:27:00 AM	0.0	0.008	0.000
11:28:00 AM	0.0	0.009	0.000
11:29:00 AM	0.0	0.009	0.000
11:30:00 AM	0.0	0.007	0.000
11:31:00 AM	0.0	0.007	0.000
11:32:00 AM	0.0	0.007	0.000
11:33:00 AM	0.0	0.009	0.000
11:34:00 AM	0.0	0.011	0.000
11:35:00 AM	0.0	0.012	0.000
11:36:00 AM	0.0	0.008	0.000
11:37:00 AM	0.0	0.009	0.000
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.007	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.007	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.008	0.000
11:45:00 AM	0.0	0.008	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.009	0.000
11:48:00 AM	0.0	0.010	0.000
11:49:00 AM	0.0	0.007	0.000
11:50:00 AM	0.0	0.008	0.000
11:51:00 AM	0.0	0.008	0.000
11:52:00 AM	0.0	0.008	0.000
11:53:00 AM	0.0	0.010	0.000
11:54:00 AM	0.0	0.008	0.000
11:55:00 AM	0.0	0.007	0.000
11:56:00 AM	0.0	0.008	0.000
11:57:00 AM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
8:54:00 AM	0.0	0.109	0.000
8:55:00 AM	0.0	0.007	0.000
8:56:00 AM	0.0	0.005	0.000
8:57:00 AM	0.0	0.005	0.000
8:58:00 AM	0.0	0.004	0.000
8:59:00 AM	0.0	0.005	0.000
9:00:00 AM	0.0	0.005	0.000
9:01:00 AM	0.0	0.005	0.000
9:02:00 AM	0.0	0.005	0.000
9:03:00 AM	0.0	0.005	0.000
9:04:00 AM	0.0	0.005	0.000
9:05:00 AM	0.0	0.006	0.000
9:06:00 AM	0.0	0.005	0.000
9:07:00 AM	0.0	0.005	0.000
9:08:00 AM	0.0	0.005	0.000
9:09:00 AM	0.0	0.006	0.000
9:10:00 AM	0.0	0.005	0.000
9:11:00 AM	0.0	0.006	0.000
9:12:00 AM	0.0	0.005	0.000
9:13:00 AM	0.0	0.005	0.000
9:14:00 AM	0.0	0.005	0.000
9:15:00 AM	0.0	0.005	0.000
9:16:00 AM	0.0	0.005	0.000
9:17:00 AM	0.0	0.005	0.000
9:18:00 AM	0.0	0.005	0.000
9:19:00 AM	0.0	0.005	0.000
9:20:00 AM	0.0	0.006	0.000
9:21:00 AM	0.0	0.005	0.000
9:22:00 AM	0.0	0.005	0.000
9:23:00 AM	0.0	0.005	0.000
9:24:00 AM	0.0	0.005	0.000
9:25:00 AM	0.0	0.005	0.000
9:26:00 AM	0.0	0.005	0.000
9:27:00 AM	0.0	0.005	0.000
9:28:00 AM	0.0	0.005	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.005	0.000
9:31:00 AM	0.0	0.006	0.000
9:32:00 AM	0.0	0.005	0.000
9:33:00 AM	0.0	0.006	0.000
9:34:00 AM	0.0	0.005	0.000
9:35:00 AM	0.0	0.005	0.000
9:36:00 AM	0.0	0.005	0.000
9:37:00 AM	0.0	0.005	0.000
9:38:00 AM	0.0	0.005	0.000
9:39:00 AM	0.0	0.005	0.000
9:40:00 AM	0.0	0.005	0.000
9:41:00 AM	0.0	0.005	0.000
9:42:00 AM	0.0	0.005	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.005	0.000
9:45:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.005	0.000
9:48:00 AM	0.0	0.005	0.000
9:49:00 AM	0.0	0.005	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.005	0.000
9:53:00 AM	0.0	0.005	0.000
9:54:00 AM	0.0	0.005	0.000
9:55:00 AM	0.0	0.005	0.000
9:56:00 AM	0.0	0.005	0.000
9:57:00 AM	0.0	0.005	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.006	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.006	0.000
10:02:00 AM	0.0	0.006	0.000
10:03:00 AM	0.0	0.006	0.000
10:04:00 AM	0.0	0.006	0.000
10:05:00 AM	0.0	0.006	0.000
10:06:00 AM	0.0	0.005	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.005	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.006	0.000
10:12:00 AM	0.0	0.005	0.000
10:13:00 AM	0.0	0.005	0.000
10:14:00 AM	0.0	0.005	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.005	0.000
10:17:00 AM	0.0	0.005	0.000
10:18:00 AM	0.0	0.005	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.005	0.000
10:21:00 AM	0.0	0.005	0.000
10:22:00 AM	0.0	0.005	0.000
10:23:00 AM	0.0	0.005	0.000
10:24:00 AM	0.0	0.005	0.000
10:25:00 AM	0.0	0.005	0.000
10:26:00 AM	0.0	0.005	0.000
10:27:00 AM	0.0	0.005	0.000
10:28:00 AM	0.0	0.005	0.000
10:29:00 AM	0.0	0.005	0.000
10:30:00 AM	0.0	0.005	0.000
10:31:00 AM	0.0	0.005	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.005	0.000
10:34:00 AM	0.0	0.005	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.0	0.004	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.004	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.004	0.000
10:50:00 AM	0.0	0.004	0.000
10:51:00 AM	0.0	0.004	0.000
10:52:00 AM	0.0	0.004	0.000
10:53:00 AM	0.0	0.004	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.005	0.000
10:57:00 AM	0.7	0.005	0.000
10:58:00 AM	0.0	0.005	0.000
10:59:00 AM	0.0	0.005	0.000
11:00:00 AM	0.0	0.005	0.000
11:01:00 AM	0.0	0.005	0.000
11:02:00 AM	0.0	0.005	0.000
11:03:00 AM	0.0	0.005	0.000
11:04:00 AM	0.0	0.005	0.000
11:05:00 AM	0.0	0.007	0.000
11:06:00 AM	0.0	0.006	0.000
11:07:00 AM	0.0	0.015	0.000
11:08:00 AM	0.0	0.008	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.006	0.000
11:11:00 AM	0.0	0.006	0.000
11:12:00 AM	0.0	0.007	0.000
11:13:00 AM	0.0	0.007	0.000
11:14:00 AM	0.0	0.006	0.000
11:15:00 AM	0.0	0.006	0.000
11:16:00 AM	0.0	0.007	0.000
11:17:00 AM	0.0	0.006	0.000
11:18:00 AM	0.0	0.005	0.000
11:19:00 AM	0.0	0.006	0.000
11:20:00 AM	0.0	0.006	0.000
11:21:00 AM	0.0	0.007	0.000
11:22:00 AM	0.0	0.006	0.000
11:23:00 AM	0.0	0.006	0.000
11:24:00 AM	0.0	0.006	0.000
11:25:00 AM	0.0	0.006	0.000
11:26:00 AM	0.0	0.006	0.000
11:27:00 AM	0.0	0.006	0.000
11:28:00 AM	0.0	0.005	0.000
11:29:00 AM	0.0	0.005	0.000
11:30:00 AM	0.0	0.006	0.000
11:31:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:32:00 AM	0.0	0.006	0.000
11:33:00 AM	0.0	0.006	0.000
11:34:00 AM	0.0	0.006	0.000
11:35:00 AM	0.0	0.006	0.000
11:36:00 AM	0.0	0.006	0.000
11:37:00 AM	0.0	0.005	0.000
11:38:00 AM	0.0	0.005	0.000
11:39:00 AM	0.0	0.006	0.000
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.005	0.000
11:43:00 AM	0.0	0.005	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.005	0.000
11:46:00 AM	0.0	0.005	0.000
11:47:00 AM	0.0	0.005	0.000
11:48:00 AM	0.0	0.005	0.000
11:49:00 AM	0.0	0.005	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.005	0.000
11:52:00 AM	0.0	0.006	0.000
11:53:00 AM	0.0	0.005	0.000
11:54:00 AM	0.0	0.006	0.000
11:55:00 AM	0.0	0.006	0.000
11:56:00 AM	0.0	0.006	0.000
11:57:00 AM	0.0	0.006	0.000
11:58:00 AM	0.0	0.006	0.000
11:59:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
8:59:00 AM	0.0		0.000
9:00:00 AM	0.0	0.015	0.000
9:01:00 AM	0.0	0.006	0.000
9:02:00 AM	0.0	0.006	0.000
9:03:00 AM	0.0	0.005	0.000
9:04:00 AM	0.0	0.005	0.000
9:05:00 AM	0.0	0.006	0.000
9:06:00 AM	0.0	0.006	0.000
9:07:00 AM	0.0	0.006	0.000
9:08:00 AM	0.0	0.006	0.000
9:09:00 AM	0.0	0.006	0.000
9:10:00 AM	0.0	0.005	0.000
9:11:00 AM	0.0	0.006	0.000
9:12:00 AM	0.0	0.006	0.000
9:13:00 AM	0.0	0.005	0.000
9:14:00 AM	0.0	0.005	0.000
9:15:00 AM	0.0	0.005	0.000
9:16:00 AM	0.0	0.005	0.000
9:17:00 AM	0.0	0.005	0.000
9:18:00 AM	0.0	0.005	0.000
9:19:00 AM	0.0	0.007	0.000
9:20:00 AM	0.0	0.011	0.000
9:21:00 AM	0.0	0.007	0.000
9:22:00 AM	0.0	0.022	0.000
9:23:00 AM	0.0	0.010	0.000
9:24:00 AM	0.0	0.012	0.000
9:25:00 AM	0.0	0.017	0.000
9:26:00 AM	0.0	0.067	0.000
9:27:00 AM	0.0	0.046	0.000
9:28:00 AM	0.0	0.006	0.000
9:29:00 AM	0.0	0.005	0.000
9:30:00 AM	0.0	0.006	0.000
9:31:00 AM	0.0	0.006	0.000
9:32:00 AM	0.0	0.007	0.000
9:33:00 AM	0.0	0.007	0.000
9:34:00 AM	0.0	0.007	0.000
9:35:00 AM	0.0	0.007	0.000
9:36:00 AM	0.0	0.007	0.000
9:37:00 AM	0.0	0.008	0.000
9:38:00 AM	0.0	0.007	0.000
9:39:00 AM	0.0	0.008	0.000
9:40:00 AM	0.0	0.006	0.000
9:41:00 AM	0.0	0.005	0.000
9:42:00 AM	0.0	0.005	0.000
9:43:00 AM	0.0	0.006	0.000
9:44:00 AM	0.0	0.007	0.000
9:45:00 AM	0.0	0.017	0.000
9:46:00 AM	0.0	0.037	0.000
9:47:00 AM	0.0	0.005	0.000
9:48:00 AM	0.0	0.007	0.000
9:49:00 AM	0.0	0.007	0.000
9:50:00 AM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:51:00 AM	0.0	0.007	0.000
9:52:00 AM	0.0	0.009	0.000
9:53:00 AM	0.0	0.008	0.000
9:54:00 AM	0.0	0.008	0.000
9:55:00 AM	0.0	0.009	0.000
9:56:00 AM	0.0	0.008	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.007	0.000
9:59:00 AM	0.0	0.009	0.000
10:00:00 AM	0.0	0.009	0.000
10:01:00 AM	0.0	0.008	0.000
10:02:00 AM	0.0	0.007	0.000
10:03:00 AM	0.0	0.007	0.000
10:04:00 AM	0.0	0.073	0.000
10:05:00 AM	0.0	0.008	0.000
10:06:00 AM	0.0	0.008	0.000
10:07:00 AM	0.0	0.007	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.008	0.000
10:10:00 AM	0.0	0.007	0.000
10:11:00 AM	0.0	0.007	0.000
10:12:00 AM	0.0	0.007	0.000
10:13:00 AM	0.0	0.008	0.000
10:14:00 AM	0.0	0.008	0.000
10:15:00 AM	0.0	0.008	0.000
10:16:00 AM	0.0	0.007	0.000
10:17:00 AM	0.0	0.007	0.000
10:18:00 AM	0.0	0.006	0.000
10:19:00 AM	0.0	0.007	0.000
10:20:00 AM	0.0	0.007	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.007	0.000
10:23:00 AM	0.0	0.016	0.000
10:24:00 AM	0.0	0.008	0.000
10:25:00 AM	0.0	0.008	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.008	0.000
10:28:00 AM	0.0	0.033	0.000
10:29:00 AM	0.0	0.138	0.000
10:30:00 AM	0.0	0.017	0.000
10:31:00 AM	0.0	0.014	0.000
10:32:00 AM	0.0	0.019	0.000
10:33:00 AM	0.0	0.014	0.000
10:34:00 AM	0.0	0.015	0.000
10:35:00 AM	0.0	0.037	0.000
10:36:00 AM	0.0	0.013	0.000
10:37:00 AM	0.0	0.013	0.000
10:38:00 AM	0.0	0.011	0.000
10:39:00 AM	0.0	0.016	0.000
10:40:00 AM	0.0	0.012	0.000
10:41:00 AM	0.0	0.010	0.000
10:42:00 AM	0.0	0.011	0.000
10:43:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:44:00 AM	0.0	0.012	0.000
10:45:00 AM	0.0	0.024	0.000
10:46:00 AM	0.0	0.014	0.000
10:47:00 AM	0.0	0.023	0.000
10:48:00 AM	0.0	0.009	0.000
10:49:00 AM	0.0	0.007	0.000
10:50:00 AM	0.0	0.007	0.000
10:51:00 AM	0.0	0.008	0.000
10:52:00 AM	0.0	0.007	0.000
10:53:00 AM	0.0	0.010	0.000
10:54:00 AM	0.0	0.008	0.000
10:55:00 AM	0.0	0.008	0.000
10:56:00 AM	0.0	0.016	0.000
10:57:00 AM	0.0	0.010	0.000
10:58:00 AM	0.0	0.010	0.000
10:59:00 AM	0.0	0.012	0.000
11:00:00 AM	0.0	0.013	0.000
11:01:00 AM	0.0	0.012	0.000
11:02:00 AM	0.0	0.012	0.000
11:03:00 AM	0.0	0.025	0.000
11:04:00 AM	0.0	0.011	0.000
11:05:00 AM	0.0	0.010	0.000
11:06:00 AM	0.0	0.009	0.000
11:07:00 AM	0.0	0.009	0.000
11:08:00 AM	0.0	0.009	0.000
11:09:00 AM	0.0	0.012	0.000
11:10:00 AM	0.0	0.009	0.000
11:11:00 AM	0.0	0.011	0.000
11:12:00 AM	0.0	0.008	0.000
11:13:00 AM	0.0	0.009	0.000
11:14:00 AM	0.0	0.011	0.000
11:15:00 AM	0.0	0.011	0.000
11:16:00 AM	0.0	0.013	0.000
11:17:00 AM	0.0	0.010	0.000
11:18:00 AM	0.0	0.010	0.000
11:19:00 AM	0.0	0.012	0.000
11:20:00 AM	0.0	0.010	0.000
11:21:00 AM	0.0	0.012	0.000
11:22:00 AM	0.0	0.019	0.000
11:23:00 AM	0.0	0.016	0.000
11:24:00 AM	0.0	0.010	0.000
11:25:00 AM	0.0	0.010	0.000
11:26:00 AM	0.0	0.018	0.000
11:27:00 AM	0.0	0.032	0.000
11:28:00 AM	0.0	0.011	0.000
11:29:00 AM	0.0	0.018	0.000
11:30:00 AM	0.0	0.020	0.000
11:31:00 AM	0.0	0.012	0.000
11:32:00 AM	0.0	0.012	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.011	0.000
11:35:00 AM	0.0	0.009	0.000
11:36:00 AM	0.0	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 30, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:37:00 AM	0.0	0.009	0.000
11:38:00 AM	0.0	0.007	0.000
11:39:00 AM	0.0	0.019	0.000
11:40:00 AM	0.0	0.009	0.000
11:41:00 AM	0.0	0.008	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.007	0.000
11:44:00 AM	0.0	0.007	0.000
11:45:00 AM	0.0	0.008	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.007	0.000
11:48:00 AM	0.0	0.007	0.000
11:49:00 AM	0.0	0.008	0.000
11:50:00 AM	0.0	0.009	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.008	0.000
11:54:00 AM	0.0	0.007	0.000
11:55:00 AM	0.0	0.008	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From S ~ 16 mph	Date:	3/31/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:15 am. Aarco continues excavating area #4, #5 and #2 in area of former water line leak utilizing soil guzzler truck. All soils are excavated down to six (6) feet bgs within area #4, ten (10) feet bgs within area #5 and two (2) feet bgs in area #2. AArco moving stone stockpile and fencing away from LIRR electrical gear to allow for access. Preferred screening all excavated soils for VOCs and Mercury. Preferred collected three endpoint samples CM-EP-02 B(10'), CM-EP-04 B(6') and CM-EP-01 B(2'). Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high-risk workers were sampled but and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.021	0.000	0.1	0.028	0.000
Down Wind	0.0	0.021	0.000	0.2	0.032	0.000
Work Zone	0.0	0.010	0.000	0.0	0.020	0.000

Exceedances (Since Last Report): None

Problems Encountered: Work Zone PID monitor not reporting till 13:10 due to connection issues with environet.

Planned Activities for the Next Day/ Week:

- Aarco will repair water line connection to substation.



Aarco utilizing soil guzzler to remove soils.



Aarco excavating all soils with soil guzzler hose.

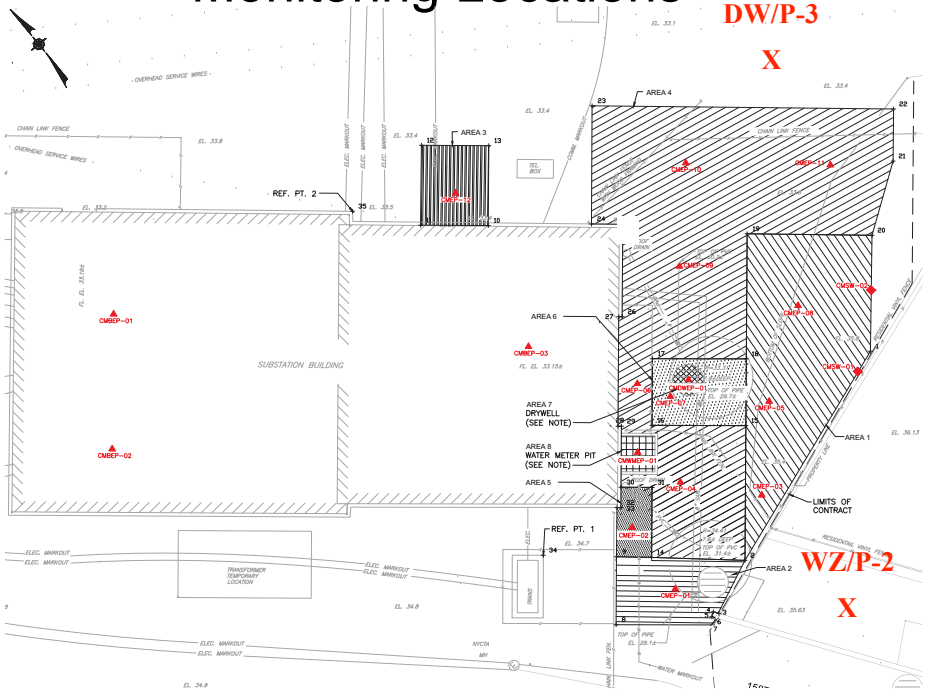


Preferred collecting endpoint samples.



Moving stone and fencing away from electrical gear as per LIRR request.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:23:00 AM	0.0	0.1	0.000
9:24:00 AM	0.0	0.039	0.000
9:25:00 AM	0.0	0.029	0.000
9:26:00 AM	0.0	0.027	0.000
9:27:00 AM	0.0	0.024	0.000
9:28:00 AM	0.0	0.023	0.000
9:29:00 AM	0.0	0.024	0.000
9:30:00 AM	0.0	0.024	0.000
9:31:00 AM	0.0	0.024	0.000
9:32:00 AM	0.0	0.023	0.000
9:33:00 AM	0.0	0.023	0.000
9:34:00 AM	0.0	0.024	0.000
9:35:00 AM	0.0	0.023	0.000
9:36:00 AM	0.0	0.025	0.000
9:37:00 AM	0.0	0.029	0.000
9:38:00 AM	0.0	0.022	0.000
9:39:00 AM	0.0	0.022	0.000
9:40:00 AM	0.0	0.022	0.000
9:41:00 AM	0.0	0.022	0.000
9:42:00 AM	0.0	0.022	0.000
9:43:00 AM	0.0	0.022	0.000
9:44:00 AM	0.0	0.021	0.000
9:45:00 AM	0.0	0.022	0.000
9:46:00 AM	0.0	0.022	0.000
9:47:00 AM	0.0	0.021	0.000
9:48:00 AM	0.0	0.021	0.000
9:49:00 AM	0.0	0.021	0.000
9:50:00 AM	0.0	0.021	0.000
9:51:00 AM	0.0	0.021	0.000
9:52:00 AM	0.0	0.020	0.000
9:53:00 AM	0.0	0.021	0.000
9:54:00 AM	0.0	0.021	0.000
9:55:00 AM	0.0	0.021	0.000
9:56:00 AM	0.0	0.021	0.000
9:57:00 AM	0.0	0.020	0.000
9:58:00 AM	0.0	0.019	0.000
9:59:00 AM	0.0	0.021	0.000
10:00:00 AM	0.0	0.022	0.000
10:01:00 AM	0.0	0.021	0.000
10:02:00 AM	0.0	0.020	0.000
10:03:00 AM	0.0	0.020	0.000
10:04:00 AM	0.0	0.020	0.000
10:05:00 AM	0.0	0.019	0.000
10:06:00 AM	0.0	0.022	0.000
10:07:00 AM	0.0	0.028	0.000
10:08:00 AM	0.0	0.021	0.000
10:09:00 AM	0.0	0.019	0.000
10:10:00 AM	0.0	0.020	0.000
10:11:00 AM	0.0	0.019	0.000
10:12:00 AM	0.0	0.020	0.000
10:13:00 AM	0.0	0.020	0.000
10:14:00 AM	0.0	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:15:00 AM	0.0	0.019	0.000
10:16:00 AM	0.0	0.018	0.000
10:17:00 AM	0.0	0.019	0.000
10:18:00 AM	0.0	0.018	0.000
10:19:00 AM	0.0	0.018	0.000
10:20:00 AM	0.0	0.022	0.000
10:21:00 AM	0.0	0.018	0.000
10:22:00 AM	0.0	0.021	0.000
10:23:00 AM	0.0	0.019	0.000
10:24:00 AM	0.0	0.020	0.000
10:25:00 AM	0.0	0.017	0.000
10:26:00 AM	0.0	0.018	0.000
10:27:00 AM	0.0	0.017	0.000
10:28:00 AM	0.0	0.020	0.000
10:29:00 AM	0.0	0.016	0.000
10:30:00 AM	0.0	0.016	0.000
10:31:00 AM	0.0	0.018	0.000
10:32:00 AM	0.0	0.017	0.000
10:33:00 AM	0.0	0.016	0.000
10:34:00 AM	0.0	0.017	0.000
10:35:00 AM	0.0	0.016	0.000
10:36:00 AM	0.0	0.016	0.000
10:37:00 AM	0.0	0.020	0.000
10:38:00 AM	0.0	0.028	0.000
10:39:00 AM	0.0	0.019	0.000
10:40:00 AM	0.0	0.017	0.000
10:41:00 AM	0.0	0.018	0.000
10:42:00 AM	0.0	0.017	0.000
10:43:00 AM	0.0	0.017	0.000
10:44:00 AM	0.0	0.017	0.000
10:45:00 AM	0.0	0.017	0.000
10:46:00 AM	0.0	0.018	0.000
10:47:00 AM	0.0	0.017	0.000
10:48:00 AM	0.0	0.016	0.000
10:49:00 AM	0.0	0.022	0.000
10:50:00 AM	0.0	0.017	0.000
10:51:00 AM	0.0	0.017	0.000
10:52:00 AM	0.0	0.017	0.000
10:53:00 AM	0.0	0.018	0.000
10:54:00 AM	0.0	0.016	0.000
10:55:00 AM	0.0	0.024	0.000
10:56:00 AM	0.0	0.019	0.000
10:57:00 AM	0.0	0.019	0.000
10:58:00 AM	0.0	0.019	0.000
10:59:00 AM	0.0	0.031	0.000
11:00:00 AM	0.0	0.021	0.000
11:01:00 AM	0.0	0.017	0.000
11:02:00 AM	0.0	0.016	0.000
11:03:00 AM	0.0	0.020	0.000
11:04:00 AM	0.0	0.022	0.000
11:05:00 AM	0.0	0.017	0.000
11:06:00 AM	0.0	0.016	0.000
11:07:00 AM	0.0	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:08:00 AM	0.0	0.018	0.000
11:09:00 AM	0.0	0.016	0.000
11:10:00 AM	0.0	0.016	0.000
11:11:00 AM	0.0	0.017	0.000
11:12:00 AM	0.0	0.017	0.000
11:13:00 AM	0.0	0.017	0.000
11:14:00 AM	0.0	0.017	0.000
11:15:00 AM	0.0	0.016	0.000
11:16:00 AM	0.0	0.016	0.000
11:17:00 AM	0.0	0.017	0.000
11:18:00 AM	0.0	0.018	0.000
11:19:00 AM	0.0	0.038	0.000
11:20:00 AM	0.0	0.024	0.000
11:21:00 AM	0.0	0.017	0.000
11:22:00 AM	0.0	0.018	0.000
11:23:00 AM	0.0	0.018	0.000
11:24:00 AM	0.0	0.017	0.000
11:25:00 AM	0.0	0.016	0.000
11:26:00 AM	0.0	0.019	0.000
11:27:00 AM	0.0	0.023	0.000
11:28:00 AM	0.0	0.017	0.000
11:29:00 AM	0.0	0.017	0.000
11:30:00 AM	0.0	0.016	0.000
11:31:00 AM	0.0	0.017	0.000
11:32:00 AM	0.0	0.016	0.000
11:33:00 AM	0.0	0.018	0.000
11:34:00 AM	0.0	0.017	0.000
11:35:00 AM	0.0	0.017	0.000
11:36:00 AM	0.0	0.018	0.000
11:37:00 AM	0.0	0.019	0.000
11:38:00 AM	0.0	0.017	0.000
11:39:00 AM	0.0	0.016	0.000
11:40:00 AM	0.0	0.017	0.000
11:41:00 AM	0.0	0.017	0.000
11:42:00 AM	0.0	0.017	0.000
11:43:00 AM	0.0	0.017	0.000
11:44:00 AM	0.0	0.019	0.000
11:45:00 AM	0.0	0.024	0.000
11:46:00 AM	0.0	0.020	0.000
11:47:00 AM	0.0	0.042	0.000
11:48:00 AM	0.0	0.025	0.000
11:49:00 AM	0.0	0.021	0.000
11:50:00 AM	0.0	0.017	0.000
11:51:00 AM	0.0	0.016	0.000
11:52:00 AM	0.0	0.026	0.000
11:53:00 AM	0.0	0.031	0.000
11:54:00 AM	0.0	0.031	0.000
11:55:00 AM	0.0	0.031	0.000
11:56:00 AM	0.0	0.023	0.000
11:57:00 AM	0.0	0.023	0.000
11:58:00 AM	0.0	0.017	0.000
11:59:00 AM	0.0	0.037	0.000
12:00:00 PM	0.0	0.020	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:01:00 PM	0.0	0.067	0.000
12:02:00 PM	0.0	0.022	0.000
12:03:00 PM	0.0	0.016	0.000
12:04:00 PM	0.0	0.023	0.000
12:05:00 PM	0.0	0.017	0.000
12:06:00 PM	0.0	0.015	0.000
12:07:00 PM	0.0	0.039	0.000
12:08:00 PM	0.0	0.018	0.000
12:09:00 PM	0.0	0.019	0.000
12:10:00 PM	0.0	0.017	0.000
12:11:00 PM	0.0	0.016	0.000
12:12:00 PM	0.0	0.021	0.000
12:13:00 PM	0.0	0.019	0.000
12:14:00 PM	0.0	0.015	0.000
12:15:00 PM	0.0	0.015	0.000
12:16:00 PM	0.0	0.018	0.000
12:17:00 PM	0.0	0.028	0.000
12:18:00 PM	0.0	0.033	0.000
12:19:00 PM	0.0	0.016	0.000
12:20:00 PM	0.0	0.023	0.000
12:21:00 PM	0.0	0.017	0.000
12:22:00 PM	0.0	0.038	0.000
12:23:00 PM	0.0	0.062	0.000
12:24:00 PM	0.5	0.031	0.000
12:25:00 PM	0.0	0.023	0.000
12:26:00 PM	0.0	0.018	0.000
12:27:00 PM	0.7	0.016	0.000
12:28:00 PM	0.0	0.017	0.000
12:29:00 PM	0.0	0.018	0.000
12:30:00 PM	0.0	0.016	0.000
12:31:00 PM	0.0	0.016	0.000
12:32:00 PM	0.0	0.015	0.000
12:33:00 PM	0.0	0.015	0.000
12:34:00 PM	0.0	0.016	0.000
12:35:00 PM	0.0	0.017	0.000
12:36:00 PM	0.0	0.018	0.000
12:37:00 PM	0.0	0.019	0.000
12:38:00 PM	0.1	0.015	0.000
12:39:00 PM	0.0	0.019	0.000
12:40:00 PM	0.0	0.018	0.000
12:41:00 PM	0.0	0.016	0.000
12:42:00 PM	0.0	0.022	0.000
12:43:00 PM	0.0	0.017	0.000
12:44:00 PM	0.0	0.025	0.000
12:45:00 PM	0.0	0.020	0.000
12:46:00 PM	0.0	0.033	0.000
12:47:00 PM	0.0	0.027	0.000
12:48:00 PM	0.0	0.027	0.000
12:49:00 PM	0.0	0.020	0.000
12:50:00 PM	0.0	0.022	0.000
12:51:00 PM	0.0	0.020	0.000
12:52:00 PM	0.0	0.019	0.000
12:53:00 PM	0.0	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:54:00 PM	0.0	0.017	0.000
12:55:00 PM	0.0	0.016	0.000
12:56:00 PM	0.0	0.020	0.000
12:57:00 PM	0.0	0.017	0.000
12:58:00 PM	0.0	0.017	0.000
12:59:00 PM	0.6	0.017	0.000
1:00:00 PM	0.0	0.017	0.000
1:01:00 PM	0.0	0.022	0.000
1:02:00 PM	0.0	0.016	0.000
1:03:00 PM	0.0	0.027	0.000
1:04:00 PM	0.0	0.017	0.000
1:05:00 PM	0.0	0.023	0.000
1:06:00 PM	0.0	0.019	0.000
1:07:00 PM	0.0	0.024	0.000
1:08:00 PM	0.0	0.020	0.000
1:09:00 PM	0.0	0.027	0.000
1:10:00 PM	0.0	0.020	0.000
1:11:00 PM	0.0	0.019	0.000
1:12:00 PM	0.0	0.023	0.000
1:13:00 PM	0.0	0.021	0.000
1:14:00 PM	0.3	0.025	0.000
1:15:00 PM	0.0	0.023	0.000
1:16:00 PM	0.0	0.020	0.000
1:17:00 PM	0.0	0.051	0.000
1:18:00 PM	0.0	0.018	0.000
1:19:00 PM	0.0	0.019	0.000
1:20:00 PM	0.0	0.024	0.000
1:21:00 PM	0.0	0.018	0.000
1:22:00 PM	0.0	0.016	0.000
1:23:00 PM	0.0	0.017	0.000
1:24:00 PM	0.3	0.020	0.000
1:25:00 PM	0.0	0.018	0.000
1:26:00 PM	0.0	0.017	0.000
1:27:00 PM	0.0	0.020	0.000
1:28:00 PM	0.0	0.017	0.000
1:29:00 PM	0.0	0.017	0.000
1:30:00 PM	0.0	0.016	0.000
1:31:00 PM	0.0	0.019	0.000
1:32:00 PM	0.0	0.016	0.000
1:33:00 PM	0.0	0.016	0.000
1:34:00 PM	0.0	0.072	0.000
1:35:00 PM	0.0	0.021	0.000
1:36:00 PM	0.0	0.017	0.000
1:37:00 PM	0.2	0.020	0.000
1:38:00 PM	0.0	0.023	0.000
1:39:00 PM	0.0	0.017	0.000
1:40:00 PM	0.0	0.017	0.000
1:41:00 PM	0.0	0.018	0.000
1:42:00 PM	0.5	0.018	0.000
1:43:00 PM	0.0	0.017	0.000
1:44:00 PM	0.0	0.019	0.000
1:45:00 PM	0.0	0.025	0.000
1:46:00 PM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:47:00 PM	0.0	0.019	0.000
1:48:00 PM	0.0	0.017	0.000
1:49:00 PM	0.0	0.015	0.000
1:50:00 PM	0.0	0.016	0.000
1:51:00 PM	0.0	0.017	0.000
1:52:00 PM	0.0	0.015	0.000
1:53:00 PM	0.0	0.017	0.000
1:54:00 PM	0.0	0.021	0.000
1:55:00 PM	0.0	0.016	0.000
1:56:00 PM	0.0	0.015	0.000
1:57:00 PM	0.0	0.016	0.000
1:58:00 PM	0.0	0.027	0.000
1:59:00 PM	0.0	0.016	0.000
2:00:00 PM	0.0	0.016	0.000
2:01:00 PM	0.0	0.016	0.000
2:02:00 PM	0.0	0.018	0.000
2:03:00 PM	0.0	0.105	0.000
2:04:00 PM	0.0	0.020	0.000
2:05:00 PM	0.0	0.029	0.000
2:06:00 PM	0.0	0.045	0.000
2:07:00 PM	0.0	0.024	0.000
2:08:00 PM	0.0	0.019	0.000
2:09:00 PM	0.0	0.019	0.000
2:10:00 PM	0.0	0.022	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:19:00 AM		0.142	0.000
9:20:00 AM		0.022	0.000
9:21:00 AM		0.021	0.000
9:22:00 AM		0.022	0.000
9:23:00 AM		0.022	0.000
9:24:00 AM		0.021	0.000
9:25:00 AM		0.021	0.000
9:26:00 AM		0.020	0.000
9:27:00 AM		0.021	0.000
9:28:00 AM		0.020	0.000
9:29:00 AM		0.020	0.000
9:30:00 AM		0.020	0.000
9:31:00 AM		0.020	0.000
9:32:00 AM		0.019	0.000
9:33:00 AM		0.020	0.000
9:34:00 AM		0.019	0.000
9:35:00 AM		0.019	0.000
9:36:00 AM		0.018	0.000
9:37:00 AM		0.018	0.000
9:38:00 AM		0.018	0.000
9:39:00 AM		0.018	0.000
9:40:00 AM		0.018	0.000
9:41:00 AM		0.017	0.000
9:42:00 AM		0.017	0.000
9:43:00 AM		0.019	0.000
9:44:00 AM		0.018	0.000
9:45:00 AM		0.017	0.000
9:46:00 AM		0.017	0.000
9:47:00 AM		0.018	0.000
9:48:00 AM		0.016	0.000
9:49:00 AM		0.016	0.000
9:50:00 AM		0.016	0.000
9:51:00 AM		0.016	0.000
9:52:00 AM		0.017	0.000
9:53:00 AM		0.016	0.000
9:54:00 AM		0.017	0.000
9:55:00 AM		0.018	0.000
9:56:00 AM		0.017	0.000
9:57:00 AM		0.033	0.000
9:58:00 AM		0.018	0.000
9:59:00 AM		0.017	0.000
10:00:00 AM		0.015	0.000
10:01:00 AM		0.018	0.000
10:02:00 AM		0.014	0.000
10:03:00 AM		0.015	0.000
10:04:00 AM		0.015	0.000
10:05:00 AM		0.014	0.000
10:06:00 AM		0.014	0.000
10:07:00 AM		0.014	0.000
10:08:00 AM		0.013	0.000
10:09:00 AM		0.014	0.000
10:10:00 AM		0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:11:00 AM		0.012	0.000
10:12:00 AM		0.013	0.000
10:13:00 AM		0.012	0.000
10:14:00 AM		0.012	0.000
10:15:00 AM		0.012	0.000
10:16:00 AM		0.013	0.000
10:17:00 AM		0.014	0.000
10:18:00 AM		0.013	0.000
10:19:00 AM		0.013	0.000
10:20:00 AM		0.013	0.000
10:21:00 AM		0.012	0.000
10:22:00 AM		0.012	0.000
10:23:00 AM		0.011	0.000
10:24:00 AM		0.011	0.000
10:25:00 AM		0.011	0.000
10:26:00 AM		0.010	0.000
10:27:00 AM		0.010	0.000
10:28:00 AM		0.012	0.000
10:29:00 AM		0.012	0.000
10:30:00 AM		0.010	0.000
10:31:00 AM		0.010	0.000
10:32:00 AM		0.011	0.000
10:33:00 AM		0.010	0.000
10:34:00 AM		0.010	0.000
10:35:00 AM		0.010	0.000
10:36:00 AM		0.011	0.000
10:37:00 AM		0.010	0.000
10:38:00 AM		0.012	0.000
10:39:00 AM		0.011	0.000
10:40:00 AM		0.010	0.000
10:41:00 AM		0.010	0.000
10:42:00 AM		0.009	0.000
10:43:00 AM		0.011	0.000
10:44:00 AM		0.009	0.000
10:45:00 AM		0.012	0.000
10:46:00 AM		0.010	0.000
10:47:00 AM		0.010	0.000
10:48:00 AM		0.009	0.000
10:49:00 AM		0.009	0.000
10:50:00 AM		0.010	0.000
10:51:00 AM		0.010	0.000
10:52:00 AM		0.010	0.000
10:53:00 AM		0.010	0.000
10:54:00 AM		0.009	0.000
10:55:00 AM		0.010	0.000
10:56:00 AM		0.009	0.000
10:57:00 AM		0.010	0.000
10:58:00 AM		0.010	0.000
10:59:00 AM		0.010	0.000
11:00:00 AM		0.009	0.000
11:01:00 AM		0.010	0.000
11:02:00 AM		0.010	0.000
11:03:00 AM		0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:04:00 AM		0.009	0.000
11:05:00 AM		0.009	0.000
11:06:00 AM		0.008	0.000
11:07:00 AM		0.009	0.000
11:08:00 AM		0.009	0.000
11:09:00 AM		0.009	0.000
11:10:00 AM		0.008	0.000
11:11:00 AM		0.009	0.000
11:12:00 AM		0.009	0.000
11:13:00 AM		0.009	0.000
11:14:00 AM		0.009	0.000
11:15:00 AM		0.009	0.000
11:16:00 AM		0.009	0.000
11:17:00 AM		0.010	0.000
11:18:00 AM		0.010	0.000
11:19:00 AM		0.009	0.000
11:20:00 AM		0.008	0.000
11:21:00 AM		0.009	0.000
11:22:00 AM		0.009	0.000
11:23:00 AM		0.009	0.000
11:24:00 AM		0.009	0.000
11:25:00 AM		0.010	0.000
11:26:00 AM		0.009	0.000
11:27:00 AM		0.009	0.000
11:28:00 AM		0.009	0.000
11:29:00 AM		0.009	0.000
11:30:00 AM		0.009	0.000
11:31:00 AM		0.009	0.000
11:32:00 AM		0.011	0.000
11:33:00 AM		0.009	0.000
11:34:00 AM		0.009	0.000
11:35:00 AM		0.008	0.000
11:36:00 AM		0.009	0.000
11:37:00 AM		0.011	0.000
11:38:00 AM		0.009	0.000
11:39:00 AM		0.009	0.000
11:40:00 AM		0.009	0.000
11:41:00 AM		0.009	0.000
11:42:00 AM		0.008	0.000
11:43:00 AM		0.008	0.000
11:44:00 AM		0.009	0.000
11:45:00 AM		0.009	0.000
11:46:00 AM		0.009	0.000
11:47:00 AM		0.008	0.000
11:48:00 AM		0.008	0.000
11:49:00 AM		0.007	0.000
11:50:00 AM		0.008	0.000
11:51:00 AM		0.008	0.000
11:52:00 AM		0.007	0.000
11:53:00 AM		0.007	0.000
11:54:00 AM		0.007	0.000
11:55:00 AM		0.008	0.000
11:56:00 AM		0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:57:00 AM		0.007	0.000
11:58:00 AM		0.008	0.000
11:59:00 AM		0.007	0.000
12:00:00 PM		0.008	0.000
12:01:00 PM		0.007	0.000
12:02:00 PM		0.007	0.000
12:03:00 PM		0.007	0.000
12:04:00 PM		0.007	0.000
12:05:00 PM		0.007	0.000
12:06:00 PM		0.007	0.000
12:07:00 PM		0.007	0.000
12:08:00 PM		0.007	0.000
12:09:00 PM		0.007	0.000
12:10:00 PM		0.007	0.000
12:11:00 PM		0.007	0.000
12:12:00 PM		0.007	0.000
12:13:00 PM		0.007	0.000
12:14:00 PM		0.007	0.000
12:15:00 PM		0.007	0.000
12:16:00 PM		0.007	0.000
12:17:00 PM		0.007	0.000
12:18:00 PM		0.009	0.000
12:19:00 PM		0.008	0.000
12:20:00 PM		0.007	0.000
12:21:00 PM		0.007	0.000
12:22:00 PM		0.007	0.000
12:23:00 PM		0.007	0.000
12:24:00 PM		0.007	0.000
12:25:00 PM		0.007	0.000
12:26:00 PM		0.007	0.000
12:27:00 PM		0.008	0.000
12:28:00 PM		0.008	0.000
12:29:00 PM		0.008	0.000
12:30:00 PM		0.007	0.000
12:31:00 PM		0.007	0.000
12:32:00 PM		0.007	0.000
12:33:00 PM		0.007	0.000
12:34:00 PM		0.007	0.000
12:35:00 PM		0.007	0.000
12:36:00 PM		0.007	0.000
12:37:00 PM		0.007	0.000
12:38:00 PM		0.008	0.000
12:39:00 PM		0.008	0.000
12:40:00 PM		0.007	0.000
12:41:00 PM		0.008	0.000
12:42:00 PM		0.008	0.000
12:43:00 PM		0.007	0.000
12:44:00 PM		0.007	0.000
12:45:00 PM		0.008	0.000
12:46:00 PM		0.011	0.000
12:47:00 PM		0.008	0.000
12:48:00 PM		0.013	0.000
12:49:00 PM		0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:50:00 PM		0.008	0.000
12:51:00 PM		0.007	0.000
12:52:00 PM		0.008	0.000
12:53:00 PM		0.008	0.000
12:54:00 PM		0.008	0.000
12:55:00 PM		0.008	0.000
12:56:00 PM		0.007	0.000
12:57:00 PM		0.007	0.000
12:58:00 PM		0.007	0.000
12:59:00 PM		0.007	0.000
1:00:00 PM		0.008	0.000
1:01:00 PM		0.009	0.000
1:02:00 PM		0.010	0.000
1:03:00 PM		0.010	0.000
1:04:00 PM		0.008	0.000
1:05:00 PM		0.008	0.000
1:06:00 PM		0.008	0.000
1:07:00 PM		0.011	0.000
1:08:00 PM		0.008	0.000
1:09:00 PM		0.008	0.000
1:10:00 PM		0.008	0.000
1:11:00 PM		0.008	0.000
1:12:00 PM		0.009	0.000
1:13:00 PM		0.009	0.000
1:16:00 PM	0.1		0.000
1:17:00 PM	0.0		0.000
1:18:00 PM	0.0		0.000
1:19:00 PM	0.0		0.000
1:20:00 PM	0.0	0.008	0.000
1:21:00 PM	0.0	0.008	0.000
1:22:00 PM	0.0	0.009	0.000
1:23:00 PM	0.0	0.007	0.000
1:24:00 PM	0.1	0.008	0.000
1:25:00 PM	0.0	0.008	0.000
1:26:00 PM	0.0	0.008	0.000
1:27:00 PM	0.3	0.008	0.000
1:28:00 PM	0.0	0.008	0.000
1:29:00 PM	0.0	0.008	0.000
1:30:00 PM	0.0	0.007	0.000
1:31:00 PM	0.0	0.008	0.000
1:32:00 PM	0.0	0.008	0.000
1:33:00 PM	0.0	0.007	0.000
1:34:00 PM	0.0	0.009	0.000
1:35:00 PM	0.0	0.007	0.000
1:36:00 PM	0.4	0.008	0.000
1:37:00 PM	0.0	0.010	0.000
1:38:00 PM	0.0	0.008	0.000
1:39:00 PM	0.0	0.008	0.000
1:40:00 PM	0.0	0.007	0.000
1:41:00 PM	0.0	0.008	0.000
1:42:00 PM	0.0	0.007	0.000
1:43:00 PM	0.0	0.007	0.000
1:44:00 PM	0.0	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:45:00 PM	0.0	0.007	0.000
1:46:00 PM	0.1	0.009	0.000
1:47:00 PM	0.0	0.009	0.000
1:48:00 PM	0.0	0.008	0.000
1:49:00 PM	0.0	0.007	0.000
1:50:00 PM	0.0	0.007	0.000
1:51:00 PM	0.0	0.007	0.000
1:52:00 PM	0.0	0.007	0.000
1:53:00 PM	0.0	0.007	0.000
1:54:00 PM	0.0	0.007	0.000
1:55:00 PM	0.0	0.007	0.000
1:56:00 PM	0.0	0.006	0.000
1:57:00 PM	0.0	0.007	0.000
1:58:00 PM	0.0	0.007	0.000
1:59:00 PM	0.0	0.006	0.000
2:00:00 PM	0.00	0.006	0.000
2:01:00 PM	0.00	0.006	0.000
2:02:00 PM	0.00	0.006	0.000
2:03:00 PM	0.00	0.008	0.000
2:04:00 PM	0.00	0.007	0.000
2:05:00 PM	0.08	0.007	0.000
2:06:00 PM	0.00	0.008	0.000
2:07:00 PM	0.00	0.006	0.000
2:08:00 PM	0.00	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0	0.037	0.000
9:17:00 AM	0.0	0.028	0.000
9:18:00 AM	0.0	0.029	0.000
9:19:00 AM	0.0	0.028	0.000
9:20:00 AM	0.0	0.028	0.000
9:21:00 AM	0.0	0.029	0.000
9:22:00 AM	0.0	0.028	0.000
9:23:00 AM	0.0	0.028	0.000
9:24:00 AM	0.0	0.030	0.000
9:25:00 AM	0.0	0.028	0.000
9:26:00 AM	0.0	0.030	0.000
9:27:00 AM	0.0	0.028	0.000
9:28:00 AM	0.0	0.027	0.000
9:29:00 AM	0.0	0.027	0.000
9:30:00 AM	0.0	0.027	0.000
9:31:00 AM	0.0	0.027	0.000
9:32:00 AM	0.0	0.027	0.000
9:33:00 AM	0.0	0.027	0.000
9:34:00 AM	0.0	0.026	0.000
9:35:00 AM	0.0	0.025	0.000
9:36:00 AM	0.0	0.025	0.000
9:37:00 AM	0.0	0.026	0.000
9:38:00 AM	0.0	0.025	0.000
9:39:00 AM	0.0	0.025	0.000
9:40:00 AM	0.0	0.025	0.000
9:41:00 AM	0.0	0.024	0.000
9:42:00 AM	0.0	0.025	0.000
9:43:00 AM	0.0	0.025	0.000
9:44:00 AM	0.0	0.025	0.000
9:45:00 AM	0.0	0.026	0.000
9:46:00 AM	0.0	0.025	0.000
9:47:00 AM	0.0	0.025	0.000
9:48:00 AM	0.0	0.024	0.000
9:49:00 AM	0.0	0.024	0.000
9:50:00 AM	0.0	0.024	0.000
9:51:00 AM	0.0	0.024	0.000
9:52:00 AM	0.0	0.024	0.000
9:53:00 AM	0.0	0.023	0.000
9:54:00 AM	0.0	0.024	0.000
9:55:00 AM	0.0	0.024	0.000
9:56:00 AM	0.0	0.024	0.000
9:57:00 AM	0.0	0.024	0.000
9:58:00 AM	0.0	0.024	0.000
9:59:00 AM	0.0	0.024	0.000
10:00:00 AM	0.0	0.029	0.000
10:01:00 AM	0.0	0.026	0.000
10:02:00 AM	0.0	0.024	0.000
10:03:00 AM	0.0	0.025	0.000
10:04:00 AM	0.0	0.023	0.000
10:05:00 AM	0.0	0.023	0.000
10:06:00 AM	0.0	0.023	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:07:00 AM	0.0	0.023	0.000
10:08:00 AM	0.0	0.023	0.000
10:09:00 AM	0.0	0.023	0.000
10:10:00 AM	0.0	0.023	0.000
10:11:00 AM	0.0	0.023	0.000
10:12:00 AM	0.0	0.022	0.000
10:13:00 AM	0.0	0.022	0.000
10:14:00 AM	0.0	0.022	0.000
10:15:00 AM	0.0	0.022	0.000
10:16:00 AM	0.0	0.021	0.000
10:17:00 AM	0.0	0.022	0.000
10:18:00 AM	0.0	0.021	0.000
10:19:00 AM	0.0	0.021	0.000
10:20:00 AM	0.0	0.023	0.000
10:21:00 AM	0.0	0.024	0.000
10:22:00 AM	0.0	0.021	0.000
10:23:00 AM	0.0	0.021	0.000
10:24:00 AM	0.0	0.020	0.000
10:25:00 AM	0.0	0.021	0.000
10:26:00 AM	0.0	0.020	0.000
10:27:00 AM	0.0	0.020	0.000
10:28:00 AM	0.0	0.020	0.000
10:29:00 AM	0.0	0.020	0.000
10:30:00 AM	0.0	0.019	0.000
10:31:00 AM	0.0	0.020	0.000
10:32:00 AM	0.0	0.020	0.000
10:33:00 AM	0.0	0.019	0.000
10:34:00 AM	0.0	0.019	0.000
10:35:00 AM	0.0	0.019	0.000
10:36:00 AM	0.0	0.020	0.000
10:37:00 AM	0.0	0.019	0.000
10:38:00 AM	0.0	0.020	0.000
10:39:00 AM	0.0	0.019	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.0	0.020	0.000
10:42:00 AM	0.0	0.019	0.000
10:43:00 AM	0.0	0.021	0.000
10:44:00 AM	0.0	0.020	0.000
10:45:00 AM	0.0	0.020	0.000
10:46:00 AM	0.0	0.020	0.000
10:47:00 AM	0.0	0.019	0.000
10:48:00 AM	0.0	0.019	0.000
10:49:00 AM	0.0	0.019	0.000
10:50:00 AM	0.0	0.019	0.000
10:51:00 AM	0.0	0.019	0.000
10:52:00 AM	0.0	0.019	0.000
10:53:00 AM	0.0	0.019	0.000
10:54:00 AM	0.0	0.018	0.000
10:55:00 AM	0.0	0.019	0.000
10:56:00 AM	0.0	0.019	0.000
10:57:00 AM	0.0	0.019	0.000
10:58:00 AM	0.0	0.019	0.000
10:59:00 AM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:00:00 AM	0.0	0.019	0.000
11:01:00 AM	0.0	0.021	0.000
11:02:00 AM	0.0	0.019	0.000
11:03:00 AM	0.0	0.021	0.000
11:04:00 AM	0.0	0.026	0.000
11:05:00 AM	0.0	0.019	0.000
11:06:00 AM	0.0	0.019	0.000
11:07:00 AM	0.0	0.020	0.000
11:08:00 AM	0.0	0.020	0.000
11:09:00 AM	0.0	0.020	0.000
11:10:00 AM	0.0	0.019	0.000
11:11:00 AM	0.0	0.019	0.000
11:12:00 AM	0.0	0.019	0.000
11:13:00 AM	0.0	0.020	0.000
11:14:00 AM	0.0	0.019	0.000
11:15:00 AM	0.0	0.020	0.000
11:16:00 AM	0.0	0.019	0.000
11:17:00 AM	0.0	0.019	0.000
11:18:00 AM	0.0	0.018	0.000
11:19:00 AM	0.0	0.019	0.000
11:20:00 AM	0.0	0.019	0.000
11:21:00 AM	0.0	0.019	0.000
11:22:00 AM	0.0	0.019	0.000
11:23:00 AM	0.0	0.019	0.000
11:24:00 AM	0.0	0.018	0.000
11:25:00 AM	0.0	0.019	0.000
11:26:00 AM	0.0	0.018	0.000
11:27:00 AM	0.0	0.018	0.000
11:28:00 AM	0.0	0.019	0.000
11:29:00 AM	0.0	0.019	0.000
11:30:00 AM	0.0	0.019	0.000
11:31:00 AM	0.0	0.020	0.000
11:32:00 AM	0.0	0.021	0.000
11:33:00 AM	0.0	0.019	0.000
11:34:00 AM	0.0	0.020	0.000
11:35:00 AM	0.0	0.018	0.000
11:36:00 AM	0.0	0.018	0.000
11:37:00 AM	0.0	0.018	0.000
11:38:00 AM	0.0	0.018	0.000
11:39:00 AM	0.0	0.019	0.000
11:40:00 AM	0.0	0.018	0.000
11:41:00 AM	0.0	0.018	0.000
11:42:00 AM	0.0	0.018	0.000
11:43:00 AM	0.0	0.018	0.000
11:44:00 AM	0.0	0.019	0.000
11:45:00 AM	0.0	0.022	0.000
11:46:00 AM	0.0	0.021	0.000
11:47:00 AM	0.0	0.110	0.000
11:48:00 AM	0.0	0.044	0.000
11:49:00 AM	0.0	0.031	0.000
11:50:00 AM	0.0	0.021	0.000
11:51:00 AM	0.0	0.019	0.000
11:52:00 AM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:53:00 AM	0.0	0.031	0.000
11:54:00 AM	0.0	0.023	0.000
11:55:00 AM	0.0	0.029	0.000
11:56:00 AM	0.0	0.040	0.000
11:57:00 AM	0.0	0.018	0.000
11:58:00 AM	0.0	0.018	0.000
11:59:00 AM	0.0	0.025	0.000
12:00:00 PM	0.0	0.019	0.000
12:01:00 PM	0.0	0.036	0.000
12:02:00 PM	0.0	0.018	0.000
12:03:00 PM	0.0	0.018	0.000
12:04:00 PM	0.0	0.017	0.000
12:05:00 PM	0.0	0.017	0.000
12:06:00 PM	0.0	0.018	0.000
12:07:00 PM	0.0	0.021	0.000
12:08:00 PM	0.0	0.021	0.000
12:09:00 PM	0.0	0.018	0.000
12:10:00 PM	0.0	0.017	0.000
12:11:00 PM	0.0	0.018	0.000
12:12:00 PM	0.0	0.028	0.000
12:13:00 PM	0.0	0.018	0.000
12:14:00 PM	0.0	0.018	0.000
12:15:00 PM	0.0	0.018	0.000
12:16:00 PM	0.0	0.018	0.000
12:17:00 PM	0.0	0.018	0.000
12:18:00 PM	0.0	0.018	0.000
12:19:00 PM	0.1	0.018	0.000
12:20:00 PM	0.1	0.018	0.000
12:21:00 PM	0.1	0.018	0.000
12:22:00 PM	0.1	0.018	0.000
12:23:00 PM	0.1	0.018	0.000
12:24:00 PM	0.1	0.017	0.000
12:25:00 PM	0.0	0.018	0.000
12:26:00 PM	0.1	0.017	0.000
12:27:00 PM	0.1	0.018	0.000
12:28:00 PM	0.2	0.017	0.000
12:29:00 PM	0.1	0.018	0.000
12:30:00 PM	0.1	0.018	0.000
12:31:00 PM	0.1	0.018	0.000
12:32:00 PM	0.1	0.017	0.000
12:33:00 PM	0.1	0.018	0.000
12:34:00 PM	0.1	0.017	0.000
12:35:00 PM	0.1	0.018	0.000
12:36:00 PM	0.1	0.017	0.000
12:37:00 PM	0.1	0.020	0.000
12:38:00 PM	0.2	0.017	0.000
12:39:00 PM	0.1	0.018	0.000
12:40:00 PM	0.1	0.018	0.000
12:41:00 PM	0.1	0.018	0.000
12:42:00 PM	0.1	0.018	0.000
12:43:00 PM	0.1	0.018	0.000
12:44:00 PM	0.1	0.018	0.000
12:45:00 PM	0.1	0.017	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:46:00 PM	0.1	0.018	0.000
12:47:00 PM	0.1	0.019	0.000
12:48:00 PM	0.1	0.018	0.000
12:49:00 PM	0.1	0.017	0.000
12:50:00 PM	0.1	0.018	0.000
12:51:00 PM	0.1	0.018	0.000
12:52:00 PM	0.1	0.018	0.000
12:53:00 PM	0.1	0.018	0.000
12:54:00 PM	0.1	0.018	0.000
12:55:00 PM	0.1	0.018	0.000
12:56:00 PM	0.1	0.018	0.000
12:57:00 PM	0.1	0.017	0.000
12:58:00 PM	0.1	0.018	0.000
12:59:00 PM	0.1	0.018	0.000
1:00:00 PM	0.1	0.018	0.000
1:01:00 PM	0.1	0.019	0.000
1:02:00 PM	0.1	0.018	0.000
1:03:00 PM	0.1	0.020	0.000
1:04:00 PM	0.1	0.018	0.000
1:05:00 PM	0.1	0.019	0.000
1:06:00 PM	0.2	0.020	0.000
1:07:00 PM	0.1	0.020	0.000
1:08:00 PM	0.1	0.019	0.000
1:09:00 PM	0.1	0.019	0.000
1:10:00 PM	0.1	0.019	0.000
1:11:00 PM	0.1	0.019	0.000
1:12:00 PM	0.1	0.019	0.000
1:13:00 PM	0.1	0.018	0.000
1:14:00 PM	0.2	0.020	0.000
1:15:00 PM	0.1	0.021	0.000
1:16:00 PM	0.2	0.021	0.000
1:17:00 PM	0.1	0.019	0.000
1:18:00 PM	0.1	0.019	0.000
1:19:00 PM	0.1	0.020	0.000
1:20:00 PM	0.1	0.019	0.000
1:21:00 PM	0.2	0.019	0.000
1:22:00 PM	0.1	0.018	0.000
1:23:00 PM	0.1	0.018	0.000
1:24:00 PM	0.1	0.018	0.000
1:25:00 PM	0.2	0.019	0.000
1:26:00 PM	0.1	0.019	0.000
1:27:00 PM	0.1	0.018	0.000
1:28:00 PM	0.1	0.018	0.000
1:29:00 PM	0.1	0.019	0.000
1:30:00 PM	0.1	0.018	0.000
1:31:00 PM	0.1	0.018	0.000
1:32:00 PM	0.1	0.018	0.000
1:33:00 PM	0.1	0.017	0.000
1:34:00 PM	0.1	0.030	0.000
1:35:00 PM	0.1	0.019	0.000
1:36:00 PM	0.1	0.018	0.000
1:37:00 PM	0.2	0.019	0.000
1:38:00 PM	0.1	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
March 31, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:39:00 PM	0.1	0.018	0.000
1:40:00 PM	0.1	0.018	0.000
1:41:00 PM	0.1	0.018	0.000
1:42:00 PM	0.1	0.017	0.000
1:43:00 PM	0.1	0.018	0.000
1:44:00 PM	0.1	0.017	0.000
1:45:00 PM	0.2	0.018	0.000
1:46:00 PM	0.3	0.02	0.000
1:47:00 PM	0.2	0.019	0.000
1:48:00 PM	0.1	0.018	0.000
1:49:00 PM	0.1	0.018	0.000
1:50:00 PM	0.1	0.018	0.000
1:51:00 PM	0.1	0.017	0.000
1:52:00 PM	0.2	0.017	0.000
1:53:00 PM	0.1	0.017	0.000
1:54:00 PM	0.1	0.017	0.000
1:55:00 PM	0.1	0.017	0.000
1:56:00 PM	0.1	0.017	0.000
1:57:00 PM	0.1	0.018	0.000
1:58:00 PM	0.1	0.018	0.000
1:59:00 PM	0.1	0.018	0.000
2:00:00 PM	0.1	0.017	0.000
2:01:00 PM	0.1	0.017	0.000
2:02:00 PM	0.1	0.023	0.000
2:03:00 PM	0.1	0.018	0.000
2:04:00 PM	0.1	0.017	0.000
2:05:00 PM	0.1	0.018	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From NW ~18 mph	Date:	4/1/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00. Aarco removing road plates JCC onsite to reconnect one (1") water line and install valve and road box next to water meter pit. Aarco exposing water main connection and newly installed valve and road box valve for DOT inspection. DOT inspector onsite at 14:00 and approves repair. Aarco backfilling the excavation and loading up JCC's road plates.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp Due to Rain/Non-Intrusive Work					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Continue with backfilling of excavation area #2 and #4.



Aarco and JCC exposing water main for repair and DOT inspection.



JCC installs 1” copper line and value box.

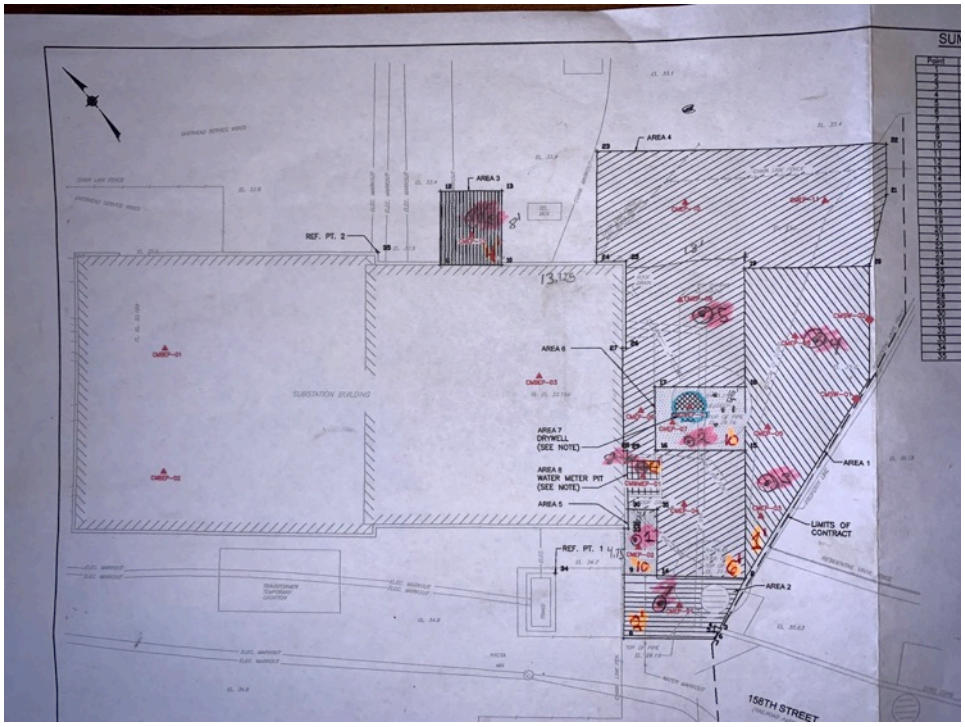


View of water main repair.



Aarco replaced road plates and will continue to backfill Monday.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~ 16 mph	Date:	4/5/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:30 am. Aarco backfilling the water main repair excavation within the end of 158th street. Backfilling with sand in ten (10) inch lifts and compacting the same. Aarco placed stone over the last six (6) inches backfilling to grade. Aarco also backfilled and compacted the first lift within the area #4 excavation compacting the same with a gas powered compactor. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.3	0.015	0.000	0.7	0.017	0.000
Down Wind	0.1	0.016	0.000	0.2	0.021	0.000
Work Zone	0.1	0.012	0.000	0.1	0.033	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue to backfill area #4.



Aarco backfilling water main excavation.



Aarco compacting the backfill in ten (10) inch lifts.

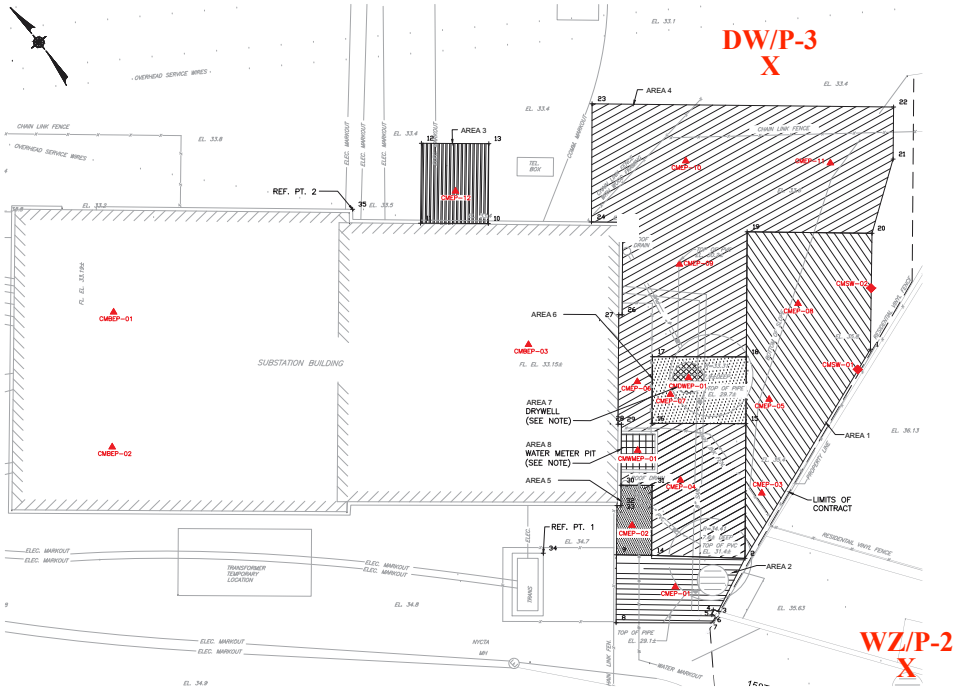


Aarco completed backfill with stone.



Backfilling excavation area #4 with first ten (10) inch lift to be tested tomorrow.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:31:00 AM	0.0		0.000
9:32:00 AM	0.0		0.000
9:33:00 AM	0.0	0.017	0.000
9:34:00 AM	0.0	0.019	0.000
9:35:00 AM	0.0	0.016	0.000
9:36:00 AM	0.0	0.016	0.000
9:37:00 AM	0.0	0.017	0.000
9:38:00 AM	0.0	0.016	0.000
9:39:00 AM	0.0	0.016	0.000
9:40:00 AM	0.0	0.015	0.000
9:41:00 AM	0.0	0.015	0.000
9:42:00 AM	0.0	0.014	0.000
9:43:00 AM	0.0	0.015	0.000
9:44:00 AM	0.0	0.016	0.000
9:45:00 AM	0.0	0.016	0.000
9:46:00 AM	0.0	0.016	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.017	0.000
9:49:00 AM	0.0	0.015	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.015	0.000
9:52:00 AM	0.0	0.015	0.000
9:53:00 AM	0.0	0.016	0.000
9:54:00 AM	0.0	0.016	0.000
9:55:00 AM	0.0	0.014	0.000
9:56:00 AM	0.0	0.014	0.000
9:57:00 AM	0.0	0.014	0.000
9:58:00 AM	0.0	0.015	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.018	0.000
10:01:00 AM	0.0	0.014	0.000
10:02:00 AM	0.0	0.014	0.000
10:03:00 AM	0.0	0.016	0.000
10:04:00 AM	0.0	0.016	0.000
10:05:00 AM	0.0	0.015	0.000
10:06:00 AM	0.0	0.016	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.015	0.000
10:09:00 AM	0.0	0.014	0.000
10:10:00 AM	0.0	0.014	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.015	0.000
10:14:00 AM	0.0	0.015	0.000
10:15:00 AM	0.0	0.014	0.000
10:16:00 AM	0.0	0.015	0.000
10:17:00 AM	0.0	0.015	0.000
10:18:00 AM	0.0	0.015	0.000
10:19:00 AM	0.0	0.014	0.000
10:20:00 AM	0.2	0.014	0.000
10:21:00 AM	0.0	0.015	0.000
10:22:00 AM	0.0	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:23:00 AM	0.0	0.014	0.000
10:24:00 AM	0.0	0.015	0.000
10:25:00 AM	0.0	0.015	0.000
10:26:00 AM	0.1	0.015	0.000
10:27:00 AM	0.0	0.015	0.000
10:28:00 AM	0.0	0.014	0.000
10:29:00 AM	0.0	0.014	0.000
10:30:00 AM	0.0	0.014	0.000
10:31:00 AM	0.0	0.013	0.000
10:32:00 AM	0.1	0.014	0.000
10:33:00 AM	0.0	0.014	0.000
10:34:00 AM	0.1	0.013	0.000
10:35:00 AM	0.1	0.013	0.000
10:36:00 AM	0.1	0.014	0.000
10:37:00 AM	0.1	0.014	0.000
10:38:00 AM	0.1	0.014	0.000
10:39:00 AM	0.1	0.014	0.000
10:40:00 AM	0.1	0.016	0.000
10:41:00 AM	0.1	0.014	0.000
10:42:00 AM	0.1	0.015	0.000
10:43:00 AM	0.1	0.014	0.000
10:44:00 AM	0.1	0.014	0.000
10:45:00 AM	0.1	0.014	0.000
10:46:00 AM	0.1	0.024	0.000
10:47:00 AM	0.1	0.015	0.000
10:48:00 AM	0.1	0.014	0.000
10:49:00 AM	0.1	0.013	0.000
10:50:00 AM	0.1	0.013	0.000
10:51:00 AM	0.2	0.013	0.000
10:52:00 AM	0.2	0.013	0.000
10:53:00 AM	0.2	0.013	0.000
10:54:00 AM	0.2	0.014	0.000
10:55:00 AM	0.2	0.014	0.000
10:56:00 AM	0.3	0.014	0.000
10:57:00 AM	0.3	0.013	0.000
10:58:00 AM	0.2	0.014	0.000
10:59:00 AM	0.2	0.015	0.000
11:00:00 AM	0.3	0.015	0.000
11:01:00 AM	0.3	0.015	0.000
11:02:00 AM	0.3	0.014	0.000
11:03:00 AM	0.3	0.013	0.000
11:04:00 AM	0.2	0.013	0.000
11:05:00 AM	0.3	0.014	0.000
11:06:00 AM	0.3	0.013	0.000
11:07:00 AM	0.3	0.013	0.000
11:08:00 AM	0.3	0.014	0.000
11:09:00 AM	0.2	0.013	0.000
11:10:00 AM	0.3	0.013	0.000
11:11:00 AM	0.3	0.014	0.000
11:12:00 AM	0.3	0.014	0.000
11:13:00 AM	0.3	0.014	0.000
11:14:00 AM	0.3	0.013	0.000
11:15:00 AM	0.3	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:16:00 AM	0.4	0.013	0.000
11:17:00 AM	0.3	0.013	0.000
11:18:00 AM	0.3	0.014	0.000
11:19:00 AM	0.3	0.013	0.000
11:20:00 AM	0.2	0.013	0.000
11:21:00 AM	0.2	0.013	0.000
11:22:00 AM	0.2	0.014	0.000
11:23:00 AM	0.3	0.013	0.000
11:24:00 AM	0.2	0.014	0.000
11:25:00 AM	0.3	0.013	0.000
11:26:00 AM	0.3	0.014	0.000
11:27:00 AM	0.2	0.013	0.000
11:28:00 AM	0.3	0.014	0.000
11:29:00 AM	0.2	0.013	0.000
11:30:00 AM	0.2	0.013	0.000
11:31:00 AM	0.3	0.014	0.000
11:32:00 AM	0.3	0.014	0.000
11:33:00 AM	0.3	0.014	0.000
11:34:00 AM	0.3	0.013	0.000
11:35:00 AM	0.3	0.014	0.000
11:36:00 AM	0.3	0.014	0.000
11:37:00 AM	0.2	0.014	0.000
11:38:00 AM	0.2	0.014	0.000
11:39:00 AM	0.2	0.014	0.000
11:40:00 AM	0.3	0.014	0.000
11:41:00 AM	0.2	0.014	0.000
11:42:00 AM	0.2	0.013	0.000
11:43:00 AM	0.3	0.014	0.000
11:44:00 AM	0.3	0.015	0.000
11:45:00 AM	0.3	0.015	0.000
11:46:00 AM	0.3	0.014	0.000
11:47:00 AM	0.4	0.016	0.000
11:48:00 AM	0.4	0.015	0.000
11:49:00 AM	0.4	0.016	0.000
11:50:00 AM	0.5	0.017	0.000
11:51:00 AM	0.4	0.015	0.000
11:52:00 AM	0.4	0.014	0.000
11:53:00 AM	0.4	0.014	0.000
11:54:00 AM	0.4	0.014	0.000
11:55:00 AM	0.4	0.014	0.000
11:56:00 AM	0.5	0.014	0.000
11:57:00 AM	0.5	0.014	0.000
11:58:00 AM	0.4	0.014	0.000
11:59:00 AM	0.4	0.015	0.000
12:00:00 PM	0.4	0.014	0.000
12:01:00 PM	0.4	0.014	0.000
12:02:00 PM	0.4	0.014	0.000
12:03:00 PM	0.4	0.014	0.000
12:04:00 PM	0.4	0.015	0.000
12:05:00 PM	0.4	0.014	0.000
12:06:00 PM	0.4	0.015	0.000
12:07:00 PM	0.3	0.016	0.000
12:08:00 PM	0.3	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:09:00 PM	0.4	0.014	0.000
12:10:00 PM	0.4	0.014	0.000
12:11:00 PM	0.4	0.014	0.000
12:12:00 PM	0.4	0.014	0.000
12:13:00 PM	0.4	0.014	0.000
12:14:00 PM	0.4	0.014	0.000
12:15:00 PM	0.4	0.014	0.000
12:16:00 PM	0.4	0.014	0.000
12:17:00 PM	0.4	0.015	0.000
12:18:00 PM	0.5	0.014	0.000
12:19:00 PM	0.4	0.016	0.000
12:20:00 PM	0.5	0.015	0.000
12:21:00 PM	0.4	0.015	0.000
12:22:00 PM	0.4	0.015	0.000
12:23:00 PM	0.4	0.015	0.000
12:24:00 PM	0.5	0.015	0.000
12:25:00 PM	0.5	0.016	0.000
12:26:00 PM	0.5	0.015	0.000
12:27:00 PM	0.5	0.015	0.000
12:28:00 PM	0.5	0.016	0.000
12:29:00 PM	0.5	0.017	0.000
12:30:00 PM	0.5	0.015	0.000
12:31:00 PM	0.5	0.015	0.000
12:32:00 PM	0.5	0.016	0.000
12:33:00 PM	0.5	0.016	0.000
12:34:00 PM	0.5	0.015	0.000
12:35:00 PM	0.5	0.016	0.000
12:36:00 PM	0.5	0.015	0.000
12:37:00 PM	0.5	0.015	0.000
12:38:00 PM	0.5	0.015	0.000
12:39:00 PM	0.5	0.015	0.000
12:40:00 PM	0.5	0.017	0.000
12:41:00 PM	0.5	0.015	0.000
12:42:00 PM	0.5	0.015	0.000
12:43:00 PM	0.5	0.015	0.000
12:44:00 PM	0.5	0.015	0.000
12:45:00 PM	0.6	0.015	0.000
12:46:00 PM	0.5	0.017	0.000
12:47:00 PM	0.5	0.016	0.000
12:48:00 PM	0.5	0.018	0.000
12:49:00 PM	0.5	0.020	0.000
12:50:00 PM	0.5	0.017	0.000
12:51:00 PM	0.5	0.017	0.000
12:52:00 PM	0.5	0.016	0.000
12:53:00 PM	0.5	0.014	0.000
12:54:00 PM	0.5	0.021	0.000
12:55:00 PM	0.5	0.016	0.000
12:56:00 PM	0.5	0.016	0.000
12:57:00 PM	0.5	0.015	0.000
12:58:00 PM	0.5	0.020	0.000
12:59:00 PM	0.5	0.016	0.000
1:00:00 PM	0.6	0.015	0.000
1:01:00 PM	0.5	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:02:00 PM	0.5	0.015	0.000
1:03:00 PM	0.6	0.017	0.000
1:04:00 PM	0.6	0.016	0.000
1:05:00 PM	0.6	0.015	0.000
1:06:00 PM	0.6	0.015	0.000
1:07:00 PM	0.5	0.017	0.000
1:08:00 PM	0.6	0.016	0.000
1:09:00 PM	0.6	0.016	0.000
1:10:00 PM	0.5	0.017	0.000
1:11:00 PM	0.6	0.020	0.000
1:12:00 PM	0.6	0.017	0.000
1:13:00 PM	0.6	0.015	0.000
1:14:00 PM	0.5	0.014	0.000
1:15:00 PM	0.5	0.014	0.000
1:16:00 PM	0.6	0.014	0.000
1:17:00 PM	0.6	0.014	0.000
1:18:00 PM	0.6	0.015	0.000
1:19:00 PM	0.6	0.014	0.000
1:20:00 PM	0.6	0.014	0.000
1:21:00 PM	0.6	0.014	0.000
1:22:00 PM	0.5	0.014	0.000
1:23:00 PM	0.6	0.014	0.000
1:24:00 PM	0.6	0.014	0.000
1:25:00 PM	0.6	0.014	0.000
1:26:00 PM	0.6	0.014	0.000
1:27:00 PM	0.6	0.015	0.000
1:28:00 PM	0.6	0.015	0.000
1:29:00 PM	0.6	0.015	0.000
1:30:00 PM	0.7	0.015	0.000
1:31:00 PM	0.7	0.015	0.000
1:32:00 PM	0.7	0.014	0.000
1:33:00 PM	0.6	0.016	0.000
1:34:00 PM	0.6	0.020	0.000
1:35:00 PM	0.6	0.017	0.000
1:36:00 PM	0.6	0.015	0.000
1:37:00 PM	0.7	0.015	0.000
1:38:00 PM	0.7	0.015	0.000
1:39:00 PM	0.7	0.015	0.000
1:40:00 PM	0.7	0.015	0.000
1:41:00 PM	0.6	0.015	0.000
1:42:00 PM	0.6	0.015	0.000
1:43:00 PM	0.6	0.015	0.000
1:44:00 PM	0.6	0.014	0.000
1:45:00 PM	0.6	0.015	0.000
1:46:00 PM	0.6	0.014	0.000
1:47:00 PM	0.6	0.014	0.000
1:48:00 PM	0.6	0.015	0.000
1:49:00 PM	0.6	0.016	0.000
1:50:00 PM	0.6	0.014	0.000
1:51:00 PM	0.6	0.015	0.000
1:52:00 PM	0.6	0.014	0.000
1:53:00 PM	0.6	0.014	0.000
1:54:00 PM	0.6	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:55:00 PM	0.7	0.014	0.000
1:56:00 PM	0.6	0.014	0.000
1:57:00 PM	0.7	0.014	0.000
1:58:00 PM	0.6	0.014	0.000
1:59:00 PM	0.7	0.015	0.000
2:00:00 PM	0.6	0.014	0.000
2:01:00 PM	0.7	0.014	0.000
2:02:00 PM	0.7	0.014	0.000
2:03:00 PM	0.7	0.014	0.000
2:04:00 PM	0.7	0.014	0.000
2:05:00 PM	0.7	0.016	0.000
2:06:00 PM	0.7	0.016	0.000
2:07:00 PM	0.6	0.015	0.000
2:08:00 PM	0.7	0.013	0.000
2:09:00 PM	0.7	0.013	0.000
2:10:00 PM	0.7	0.013	0.000
2:11:00 PM	0.6	0.013	0.000
2:12:00 PM	0.7	0.013	0.000
2:13:00 PM	0.7	0.014	0.000
2:14:00 PM	0.7	0.014	0.000
2:15:00 PM	0.7	0.014	0.000
2:16:00 PM	0.7	0.014	0.000
2:17:00 PM	0.7	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:33:00 AM	0.0		0.000
9:35:00 AM	0.0	0.022	0.000
9:36:00 AM	0.0	0.017	0.000
9:37:00 AM	0.0	0.017	0.000
9:38:00 AM	0.0	0.016	0.000
9:39:00 AM	0.0	0.014	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.0	0.013	0.000
9:42:00 AM	0.0	0.012	0.000
9:43:00 AM	0.0	0.013	0.000
9:44:00 AM	0.0	0.013	0.000
9:45:00 AM	0.0	0.014	0.000
9:46:00 AM	0.0	0.017	0.000
9:47:00 AM	0.0	0.020	0.000
9:48:00 AM	0.1	0.016	0.000
9:49:00 AM	0.0	0.013	0.000
9:50:00 AM	0.0	0.014	0.000
9:51:00 AM	0.1	0.015	0.000
9:52:00 AM	0.1	0.013	0.000
9:53:00 AM	0.1	0.015	0.000
9:54:00 AM	0.1	0.014	0.000
9:55:00 AM	0.1	0.011	0.000
9:56:00 AM	0.1	0.010	0.000
9:57:00 AM	0.1	0.012	0.000
9:58:00 AM	0.1	0.013	0.000
9:59:00 AM	0.1	0.011	0.000
10:00:00 AM	0.1	0.010	0.000
10:01:00 AM	0.1	0.011	0.000
10:02:00 AM	0.1	0.011	0.000
10:03:00 AM	0.1	0.011	0.000
10:04:00 AM	0.1	0.011	0.000
10:05:00 AM	0.1	0.011	0.000
10:06:00 AM	0.1	0.011	0.000
10:07:00 AM	0.1	0.014	0.000
10:08:00 AM	0.1	0.011	0.000
10:09:00 AM	0.1	0.010	0.000
10:10:00 AM	0.1	0.024	0.000
10:11:00 AM	0.1	0.012	0.000
10:12:00 AM	0.1	0.013	0.000
10:13:00 AM	0.1	0.010	0.000
10:14:00 AM	0.1	0.009	0.000
10:15:00 AM	0.1	0.009	0.000
10:16:00 AM	0.1	0.009	0.000
10:17:00 AM	0.1	0.009	0.000
10:18:00 AM	0.1	0.009	0.000
10:19:00 AM	0.1	0.009	0.000
10:20:00 AM	0.1	0.009	0.000
10:21:00 AM	0.2	0.014	0.000
10:22:00 AM	0.1	0.012	0.000
10:23:00 AM	0.1	0.008	0.000
10:24:00 AM	0.1	0.010	0.000
10:25:00 AM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:26:00 AM	0.2	0.008	0.000
10:27:00 AM	0.1	0.008	0.000
10:28:00 AM	0.1	0.008	0.000
10:29:00 AM	0.1	0.008	0.000
10:30:00 AM	0.1	0.008	0.000
10:31:00 AM	0.1	0.007	0.000
10:32:00 AM	0.1	0.009	0.000
10:33:00 AM	0.1	0.009	0.000
10:34:00 AM	0.1	0.011	0.000
10:35:00 AM	0.1	0.008	0.000
10:36:00 AM	0.1	0.009	0.000
10:37:00 AM	0.1	0.008	0.000
10:38:00 AM	0.1	0.012	0.000
10:39:00 AM	0.1	0.016	0.000
10:40:00 AM	0.1	0.012	0.000
10:41:00 AM	0.1	0.007	0.000
10:42:00 AM	0.1	0.007	0.000
10:43:00 AM	0.1	0.007	0.000
10:44:00 AM	0.1	0.007	0.000
10:45:00 AM	0.1	0.007	0.000
10:46:00 AM	0.1	0.012	0.000
10:47:00 AM	0.2	0.010	0.000
10:48:00 AM	0.2	0.008	0.000
10:49:00 AM	0.1	0.007	0.000
10:50:00 AM	0.1	0.007	0.000
10:51:00 AM	0.1	0.007	0.000
10:52:00 AM	0.1	0.007	0.000
10:53:00 AM	0.1	0.007	0.000
10:54:00 AM	0.1	0.012	0.000
10:55:00 AM	0.1	0.008	0.000
10:56:00 AM	0.1	0.008	0.000
10:57:00 AM	0.1	0.016	0.000
10:58:00 AM	0.1	0.012	0.000
10:59:00 AM	0.1	0.009	0.000
11:00:00 AM	0.1	0.012	0.000
11:01:00 AM	0.1	0.012	0.000
11:02:00 AM	0.1	0.014	0.000
11:03:00 AM	0.1	0.008	0.000
11:04:00 AM	0.1	0.043	0.000
11:05:00 AM	0.1	0.020	0.000
11:06:00 AM	0.1	0.014	0.000
11:07:00 AM	0.1	0.010	0.000
11:08:00 AM	0.1	0.016	0.000
11:09:00 AM	0.1	0.017	0.000
11:10:00 AM	0.1	0.014	0.000
11:11:00 AM	0.1	0.009	0.000
11:12:00 AM	0.1	0.008	0.000
11:13:00 AM	0.1	0.007	0.000
11:14:00 AM	0.1	0.007	0.000
11:15:00 AM	0.1	0.006	0.000
11:16:00 AM	0.1	0.005	0.000
11:17:00 AM	0.1	0.005	0.000
11:18:00 AM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:19:00 AM	0.1	0.006	0.000
11:20:00 AM	0.1	0.013	0.000
11:21:00 AM	0.1	0.007	0.000
11:22:00 AM	0.1	0.005	0.000
11:23:00 AM	0.1	0.005	0.000
11:24:00 AM	0.1	0.005	0.000
11:25:00 AM	0.1	0.005	0.000
11:26:00 AM	0.1	0.006	0.000
11:27:00 AM	0.1	0.006	0.000
11:28:00 AM	0.1	0.006	0.000
11:29:00 AM	0.2	0.005	0.000
11:30:00 AM	0.1	0.007	0.000
11:31:00 AM	0.1	0.006	0.000
11:32:00 AM	0.1	0.011	0.000
11:33:00 AM	0.1	0.007	0.000
11:34:00 AM	0.1	0.123	0.000
11:35:00 AM	0.0	0.050	0.000
11:36:00 AM	0.1	0.012	0.000
11:37:00 AM	0.1	0.038	0.000
11:38:00 AM	0.0	0.016	0.000
11:39:00 AM	0.0	0.015	0.000
11:40:00 AM	0.0	0.008	0.000
11:41:00 AM	0.0	0.005	0.000
11:42:00 AM	0.0	0.007	0.000
11:43:00 AM	0.0	0.037	0.000
11:44:00 AM	0.0	0.010	0.000
11:45:00 AM	0.0	0.015	0.000
11:46:00 AM	0.0	0.010	0.000
11:47:00 AM	0.0	0.006	0.000
11:48:00 AM	0.0	0.007	0.000
11:49:00 AM	0.0	0.011	0.000
11:50:00 AM	0.1	0.010	0.000
11:51:00 AM	0.0	0.009	0.000
11:52:00 AM	0.0	0.009	0.000
11:53:00 AM	0.0	0.007	0.000
11:54:00 AM	0.0	0.011	0.000
11:55:00 AM	0.0	0.008	0.000
11:56:00 AM	0.0	0.005	0.000
11:57:00 AM	0.0	0.006	0.000
11:58:00 AM	0.0	0.005	0.000
11:59:00 AM	0.0	0.006	0.000
12:00:00 PM	0.0	0.007	0.000
12:01:00 PM	0.0	0.006	0.000
12:02:00 PM	0.0	0.005	0.000
12:03:00 PM	0.0	0.005	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.005	0.000
12:06:00 PM	0.0	0.005	0.000
12:07:00 PM	0.0	0.006	0.000
12:08:00 PM	0.0	0.005	0.000
12:09:00 PM	0.0	0.005	0.000
12:10:00 PM	0.0	0.004	0.000
12:11:00 PM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:12:00 PM	0.0	0.005	0.000
12:13:00 PM	0.0	0.005	0.000
12:14:00 PM	0.0	0.005	0.000
12:15:00 PM	0.0	0.005	0.000
12:16:00 PM	0.1	0.005	0.000
12:17:00 PM	0.0	0.005	0.000
12:18:00 PM	0.0	0.005	0.000
12:19:00 PM	0.0	0.007	0.000
12:20:00 PM	0.0	0.005	0.000
12:21:00 PM	0.0	0.006	0.000
12:22:00 PM	0.1	0.005	0.000
12:23:00 PM	0.0	0.006	0.000
12:24:00 PM	0.1	0.006	0.000
12:25:00 PM	0.1	0.008	0.000
12:26:00 PM	0.1	0.007	0.000
12:27:00 PM	0.1	0.006	0.000
12:28:00 PM	0.1	0.007	0.000
12:29:00 PM	0.1	0.007	0.000
12:30:00 PM	0.1	0.007	0.000
12:31:00 PM	0.1	0.006	0.000
12:32:00 PM	0.1	0.006	0.000
12:33:00 PM	0.1	0.006	0.000
12:34:00 PM	0.1	0.006	0.000
12:35:00 PM	0.1	0.007	0.000
12:36:00 PM	0.1	0.007	0.000
12:37:00 PM	0.1	0.012	0.000
12:38:00 PM	0.1	0.006	0.000
12:39:00 PM	0.1	0.005	0.000
12:40:00 PM	0.1	0.006	0.000
12:41:00 PM	0.1	0.005	0.000
12:42:00 PM	0.1	0.005	0.000
12:43:00 PM	0.1	0.005	0.000
12:44:00 PM	0.1	0.006	0.000
12:45:00 PM	0.1	0.010	0.000
12:46:00 PM	0.0	0.028	0.000
12:47:00 PM	0.0	0.031	0.000
12:48:00 PM	0.0	0.035	0.000
12:49:00 PM	0.0	0.045	0.000
12:50:00 PM	0.0	0.024	0.000
12:51:00 PM	0.0	0.025	0.000
12:52:00 PM	0.0	0.017	0.000
12:53:00 PM	0.0	0.016	0.000
12:54:00 PM	0.1	0.017	0.000
12:55:00 PM	0.1	0.050	0.000
12:56:00 PM	0.1	0.032	0.000
12:57:00 PM	0.1	0.010	0.000
12:58:00 PM	0.1	0.012	0.000
12:59:00 PM	0.1	0.088	0.000
1:00:00 PM	0.1	0.061	0.000
1:01:00 PM	0.1	0.016	0.000
1:02:00 PM	0.1	0.010	0.000
1:03:00 PM	0.1	0.008	0.000
1:04:00 PM	0.1	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:05:00 PM	0.1	0.007	0.000
1:06:00 PM	0.1	0.005	0.000
1:07:00 PM	0.1	0.013	0.000
1:08:00 PM	0.1	0.007	0.000
1:09:00 PM	0.1	0.006	0.000
1:10:00 PM	0.1	0.016	0.000
1:11:00 PM	0.1	0.024	0.000
1:12:00 PM	0.1	0.014	0.000
1:13:00 PM	0.1	0.014	0.000
1:14:00 PM	0.1	0.020	0.000
1:15:00 PM	0.1	0.004	0.000
1:16:00 PM	0.4	0.009	0.000
1:17:00 PM	0.1	0.054	0.000
1:18:00 PM	0.1	0.019	0.000
1:19:00 PM	0.2	0.019	0.000
1:20:00 PM	0.1	0.011	0.000
1:21:00 PM	0.1	0.007	0.000
1:22:00 PM	0.1	0.009	0.000
1:23:00 PM	0.1	0.024	0.000
1:24:00 PM	0.1	0.005	0.000
1:25:00 PM	0.1	0.004	0.000
1:26:00 PM	0.0	0.017	0.000
1:27:00 PM	0.0	0.012	0.000
1:28:00 PM	0.0	0.006	0.000
1:29:00 PM	0.1	0.005	0.000
1:30:00 PM	0.1	0.004	0.000
1:31:00 PM	0.1	0.004	0.000
1:32:00 PM	0.1	0.007	0.000
1:33:00 PM	0.1	0.007	0.000
1:34:00 PM	0.1	0.015	0.000
1:35:00 PM	0.1	0.011	0.000
1:36:00 PM	0.1	0.006	0.000
1:37:00 PM	0.1	0.005	0.000
1:38:00 PM	0.1	0.007	0.000
1:39:00 PM	0.1	0.007	0.000
1:40:00 PM	0.1	0.005	0.000
1:41:00 PM	0.1	0.015	0.000
1:42:00 PM	0.1	0.033	0.000
1:43:00 PM	0.1	0.008	0.000
1:44:00 PM	0.1	0.004	0.000
1:45:00 PM	0.1	0.012	0.000
1:46:00 PM	0.0	0.029	0.000
1:47:00 PM	0.1	0.012	0.000
1:48:00 PM	0.1	0.029	0.000
1:49:00 PM	0.1	0.010	0.000
1:50:00 PM	0.1	0.014	0.000
1:51:00 PM	0.1	0.054	0.000
1:52:00 PM	0.1	0.015	0.000
1:53:00 PM	0.1	0.011	0.000
1:54:00 PM	0.1	0.047	0.000
1:55:00 PM	0.1	0.012	0.000
1:56:00 PM	0.1	0.013	0.000
1:57:00 PM	0.1	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:58:00 PM	0.1	0.007	0.000
1:59:00 PM	0.1	0.008	0.000
2:00:00 PM	0.1	0.006	0.000
2:01:00 PM	0.1	0.012	0.000
2:02:00 PM	0.1	0.008	0.000
2:03:00 PM	0.1	0.004	0.000
2:04:00 PM	0.1	0.053	0.000
2:05:00 PM	0.1	0.015	0.000
2:06:00 PM	0.1	0.014	0.000
2:07:00 PM	0.1	0.025	0.000
2:08:00 PM	0.1	0.009	0.000
2:09:00 PM	0.1	0.021	0.000
2:10:00 PM	0.1	0.008	0.000
2:11:00 PM	0.1	0.003	0.000
2:12:00 PM	0.1	0.003	0.000
2:13:00 PM	0.1	0.006	0.000
2:14:00 PM	0.1	0.005	0.000
2:15:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:48:00 AM	0.0		0.000
9:50:00 AM	0.0		0.000
9:51:00 AM	0.0	0.071	0.000
9:52:00 AM	0.0	0.019	0.000
9:53:00 AM	0.0	0.019	0.000
9:54:00 AM	0.0	0.018	0.000
9:55:00 AM	0.0	0.017	0.000
9:56:00 AM	0.0	0.016	0.000
9:57:00 AM	0.0	0.016	0.000
9:58:00 AM	0.0	0.018	0.000
9:59:00 AM	0.0	0.017	0.000
10:00:00 AM	0.0	0.015	0.000
10:01:00 AM	0.0	0.016	0.000
10:02:00 AM	0.0	0.019	0.000
10:03:00 AM	0.0	0.018	0.000
10:04:00 AM	0.0	0.018	0.000
10:05:00 AM	0.0	0.018	0.000
10:06:00 AM	0.0	0.018	0.000
10:07:00 AM	0.0	0.018	0.000
10:08:00 AM	0.0	0.019	0.000
10:09:00 AM	0.0	0.017	0.000
10:10:00 AM	0.0	0.017	0.000
10:11:00 AM	0.0	0.016	0.000
10:12:00 AM	0.0	0.017	0.000
10:13:00 AM	0.0	0.018	0.000
10:14:00 AM	0.0	0.018	0.000
10:15:00 AM	0.0	0.016	0.000
10:16:00 AM	0.0	0.016	0.000
10:17:00 AM	0.0	0.017	0.000
10:18:00 AM	0.0	0.018	0.000
10:19:00 AM	0.0	0.016	0.000
10:20:00 AM	0.0	0.016	0.000
10:21:00 AM	0.0	0.016	0.000
10:22:00 AM	0.0	0.015	0.000
10:23:00 AM	0.0	0.015	0.000
10:24:00 AM	0.0	0.018	0.000
10:25:00 AM	0.0	0.018	0.000
10:26:00 AM	0.0	0.017	0.000
10:27:00 AM	0.0	0.017	0.000
10:28:00 AM	0.0	0.015	0.000
10:29:00 AM	0.0	0.015	0.000
10:30:00 AM	0.0	0.016	0.000
10:31:00 AM	0.0	0.014	0.000
10:32:00 AM	0.0	0.015	0.000
10:33:00 AM	0.0	0.016	0.000
10:34:00 AM	0.0	0.015	0.000
10:35:00 AM	0.0	0.014	0.000
10:36:00 AM	0.0	0.014	0.000
10:37:00 AM	0.0	0.016	0.000
10:38:00 AM	0.0	0.016	0.000
10:39:00 AM	0.0	0.016	0.000
10:40:00 AM	0.0	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:41:00 AM	0.0	0.015	0.000
10:42:00 AM	0.0	0.016	0.000
10:43:00 AM	0.0	0.016	0.000
10:44:00 AM	0.0	0.016	0.000
10:45:00 AM	0.0	0.015	0.000
10:46:00 AM	0.0	0.018	0.000
10:47:00 AM	0.0	0.014	0.000
10:48:00 AM	0.0	0.014	0.000
10:49:00 AM	0.0	0.015	0.000
10:50:00 AM	0.0	0.014	0.000
10:51:00 AM	0.0	0.014	0.000
10:52:00 AM	0.0	0.014	0.000
10:53:00 AM	0.0	0.014	0.000
10:54:00 AM	0.0	0.015	0.000
10:55:00 AM	0.0	0.015	0.000
10:56:00 AM	0.0	0.015	0.000
10:57:00 AM	0.0	0.015	0.000
10:58:00 AM	0.0	0.014	0.000
10:59:00 AM	0.0	0.015	0.000
11:00:00 AM	0.0	0.016	0.000
11:01:00 AM	0.0	0.016	0.000
11:02:00 AM	0.0	0.016	0.000
11:03:00 AM	0.0	0.015	0.000
11:04:00 AM	0.0	0.014	0.000
11:05:00 AM	0.0	0.015	0.000
11:06:00 AM	0.0	0.014	0.000
11:07:00 AM	0.0	0.014	0.000
11:08:00 AM	0.0	0.016	0.000
11:09:00 AM	0.0	0.015	0.000
11:10:00 AM	0.0	0.014	0.000
11:11:00 AM	0.0	0.015	0.000
11:12:00 AM	0.0	0.014	0.000
11:13:00 AM	0.0	0.013	0.000
11:14:00 AM	0.0	0.014	0.000
11:15:00 AM	0.0	0.014	0.000
11:16:00 AM	0.0	0.014	0.000
11:17:00 AM	0.0	0.013	0.000
11:18:00 AM	0.0	0.014	0.000
11:19:00 AM	0.0	0.015	0.000
11:20:00 AM	0.0	0.014	0.000
11:21:00 AM	0.0	0.014	0.000
11:22:00 AM	0.0	0.014	0.000
11:23:00 AM	0.0	0.014	0.000
11:24:00 AM	0.0	0.014	0.000
11:25:00 AM	0.0	0.014	0.000
11:26:00 AM	0.0	0.015	0.000
11:27:00 AM	0.0	0.015	0.000
11:28:00 AM	0.0	0.015	0.000
11:29:00 AM	0.0	0.015	0.000
11:30:00 AM	0.0	0.016	0.000
11:31:00 AM	0.0	0.014	0.000
11:32:00 AM	0.0	0.014	0.000
11:33:00 AM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:34:00 AM	0.1	0.014	0.000
11:35:00 AM	0.1	0.014	0.000
11:36:00 AM	0.0	0.014	0.000
11:37:00 AM	0.1	0.014	0.000
11:38:00 AM	0.1	0.014	0.000
11:39:00 AM	0.1	0.014	0.000
11:40:00 AM	0.1	0.014	0.000
11:41:00 AM	0.0	0.014	0.000
11:42:00 AM	0.1	0.013	0.000
11:43:00 AM	0.1	0.014	0.000
11:44:00 AM	0.1	0.016	0.000
11:45:00 AM	0.1	0.015	0.000
11:46:00 AM	0.1	0.020	0.000
11:47:00 AM	0.1	0.016	0.000
11:48:00 AM	0.1	0.017	0.000
11:49:00 AM	0.1	0.019	0.000
11:50:00 AM	0.1	0.018	0.000
11:51:00 AM	0.1	0.017	0.000
11:52:00 AM	0.1	0.021	0.000
11:53:00 AM	0.1	0.015	0.000
11:54:00 AM	0.1	0.015	0.000
11:55:00 AM	0.1	0.014	0.000
11:56:00 AM	0.1	0.014	0.000
11:57:00 AM	0.1	0.015	0.000
11:58:00 AM	0.1	0.015	0.000
11:59:00 AM	0.1	0.016	0.000
12:00:00 PM	0.1	0.015	0.000
12:01:00 PM	0.1	0.015	0.000
12:02:00 PM	0.1	0.015	0.000
12:03:00 PM	0.1	0.015	0.000
12:04:00 PM	0.1	0.015	0.000
12:05:00 PM	0.1	0.015	0.000
12:06:00 PM	0.1	0.015	0.000
12:07:00 PM	0.1	0.016	0.000
12:08:00 PM	0.1	0.016	0.000
12:09:00 PM	0.1	0.015	0.000
12:10:00 PM	0.1	0.014	0.000
12:11:00 PM	0.1	0.015	0.000
12:12:00 PM	0.1	0.014	0.000
12:13:00 PM	0.1	0.015	0.000
12:14:00 PM	0.1	0.015	0.000
12:15:00 PM	0.1	0.015	0.000
12:16:00 PM	0.1	0.015	0.000
12:17:00 PM	0.1	0.016	0.000
12:18:00 PM	0.1	0.016	0.000
12:19:00 PM	0.1	0.016	0.000
12:20:00 PM	0.1	0.016	0.000
12:21:00 PM	0.1	0.016	0.000
12:22:00 PM	0.1	0.016	0.000
12:23:00 PM	0.1	0.015	0.000
12:24:00 PM	0.1	0.016	0.000
12:25:00 PM	0.1	0.016	0.000
12:26:00 PM	0.1	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:27:00 PM	0.1	0.016	0.000
12:28:00 PM	0.1	0.018	0.000
12:29:00 PM	0.1	0.016	0.000
12:30:00 PM	0.1	0.017	0.000
12:31:00 PM	0.1	0.016	0.000
12:32:00 PM	0.1	0.016	0.000
12:33:00 PM	0.1	0.017	0.000
12:34:00 PM	0.1	0.016	0.000
12:35:00 PM	0.1	0.016	0.000
12:36:00 PM	0.1	0.015	0.000
12:37:00 PM	0.1	0.015	0.000
12:38:00 PM	0.1	0.016	0.000
12:39:00 PM	0.1	0.016	0.000
12:40:00 PM	0.1	0.018	0.000
12:41:00 PM	0.1	0.015	0.000
12:42:00 PM	0.1	0.016	0.000
12:43:00 PM	0.1	0.016	0.000
12:44:00 PM	0.1	0.015	0.000
12:45:00 PM	0.1	0.016	0.000
12:46:00 PM	0.1	0.016	0.000
12:47:00 PM	0.1	0.037	0.000
12:48:00 PM	0.1	0.015	0.000
12:49:00 PM	0.1	0.015	0.000
12:50:00 PM	0.1	0.017	0.000
12:51:00 PM	0.1	0.016	0.000
12:52:00 PM	0.1	0.015	0.000
12:53:00 PM	0.1	0.015	0.000
12:54:00 PM	0.1	0.016	0.000
12:55:00 PM	0.1	0.018	0.000
12:56:00 PM	0.1	0.016	0.000
12:57:00 PM	0.1	0.016	0.000
12:58:00 PM	0.1	0.020	0.000
12:59:00 PM	0.1	0.020	0.000
1:00:00 PM	0.1	0.016	0.000
1:01:00 PM	0.1	0.015	0.000
1:02:00 PM	0.1	0.017	0.000
1:03:00 PM	0.1	0.015	0.000
1:04:00 PM	0.1	0.015	0.000
1:05:00 PM	0.1	0.015	0.000
1:06:00 PM	0.1	0.015	0.000
1:07:00 PM	0.1	0.016	0.000
1:08:00 PM	0.1	0.016	0.000
1:09:00 PM	0.1	0.016	0.000
1:10:00 PM	0.1	0.017	0.000
1:11:00 PM	0.1	0.018	0.000
1:12:00 PM	0.1	0.017	0.000
1:13:00 PM	0.1	0.014	0.000
1:14:00 PM	0.1	0.014	0.000
1:15:00 PM	0.1	0.013	0.000
1:16:00 PM	0.1	0.014	0.000
1:17:00 PM	0.1	0.014	0.000
1:18:00 PM	0.1	0.015	0.000
1:19:00 PM	0.1	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:20:00 PM	0.1	0.015	0.000
1:21:00 PM	0.1	0.015	0.000
1:22:00 PM	0.1	0.014	0.000
1:23:00 PM	0.2	0.014	0.000
1:24:00 PM	0.2	0.015	0.000
1:25:00 PM	0.2	0.015	0.000
1:26:00 PM	0.1	0.022	0.000
1:27:00 PM	0.2	0.017	0.000
1:28:00 PM	0.2	0.017	0.000
1:29:00 PM	0.2	0.015	0.000
1:30:00 PM	0.2	0.017	0.000
1:31:00 PM	0.2	0.017	0.000
1:32:00 PM	0.2	0.018	0.000
1:33:00 PM	0.2	0.017	0.000
1:34:00 PM	0.2	0.017	0.000
1:35:00 PM	0.2	0.016	0.000
1:36:00 PM	0.2	0.017	0.000
1:37:00 PM	0.2	0.016	0.000
1:38:00 PM	0.2	0.015	0.000
1:39:00 PM	0.2	0.015	0.000
1:40:00 PM	0.2	0.015	0.000
1:41:00 PM	0.2	0.015	0.000
1:42:00 PM	0.2	0.016	0.000
1:43:00 PM	0.2	0.015	0.000
1:44:00 PM	0.2	0.015	0.000
1:45:00 PM	0.2	0.015	0.000
1:46:00 PM	0.2	0.015	0.000
1:47:00 PM	0.2	0.014	0.000
1:48:00 PM	0.2	0.014	0.000
1:49:00 PM	0.2	0.015	0.000
1:50:00 PM	0.2	0.015	0.000
1:51:00 PM	0.2	0.015	0.000
1:52:00 PM	0.2	0.014	0.000
1:53:00 PM	0.2	0.014	0.000
1:54:00 PM	0.2	0.014	0.000
1:55:00 PM	0.2	0.014	0.000
1:56:00 PM	0.2	0.014	0.000
1:57:00 PM	0.2	0.014	0.000
1:58:00 PM	0.2	0.014	0.000
1:59:00 PM	0.2	0.014	0.000
2:00:00 PM	0.2	0.014	0.000
2:01:00 PM	0.2	0.014	0.000
2:02:00 PM	0.2	0.014	0.000
2:03:00 PM	0.2	0.014	0.000
2:04:00 PM	0.2	0.015	0.000
2:05:00 PM	0.2	0.015	0.000
2:06:00 PM	0.2	0.020	0.000
2:07:00 PM	0.2	0.023	0.000
2:08:00 PM	0.2	0.015	0.000
2:09:00 PM	0.2	0.014	0.000
2:10:00 PM	0.2	0.013	0.000
2:11:00 PM	0.2	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 5, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~ 16 mph	Date:	4/6/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco waiting for skytesting to arrive onsite to conduct compaction testing on first lift backfilled the previous day. Paul J. Petretti surveyor's onsite to survey all endpoint sample locations. Skytesting onsite at 10:00 to conduct compaction testing. All lifts are compacted to at least 95% compaction in ten (10) inch lifts. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.5	0.013	0.000	0.8	0.015	0.000
Down Wind	0.1	0.015	0.000	0.2	0.020	0.000
Work Zone	0.0	0.007	0.000	0.1	0.014	0.000

Exceedances (Since Last Report): None

Problems Encountered: Work Zone mercury monitor did not record data.

Planned Activities for the Next Day/ Week:

- Aarco will load out soils, digging box and continue backfilling.



Surveyors surveying endpoint sample locations.



Aarco backfilling excavation area.



Compaction testing.



Aarco compacting backfill.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:08:00 AM	0.0	0.1	0.000
9:09:00 AM	0.0	0.020	0.000
9:10:00 AM	0.0	0.014	0.000
9:11:00 AM	0.0	0.014	0.000
9:12:00 AM	0.0	0.014	0.000
9:13:00 AM	0.0	0.014	0.000
9:14:00 AM	0.0	0.014	0.000
9:15:00 AM	0.0	0.015	0.000
9:16:00 AM	0.0	0.014	0.000
9:17:00 AM	0.1	0.014	0.000
9:18:00 AM	0.0	0.017	0.000
9:19:00 AM	0.0	0.014	0.000
9:20:00 AM	0.0	0.014	0.000
9:21:00 AM	0.0	0.014	0.000
9:22:00 AM	0.0	0.014	0.000
9:23:00 AM	0.0	0.014	0.000
9:24:00 AM	0.0	0.014	0.000
9:25:00 AM	0.0	0.014	0.000
9:26:00 AM	0.0	0.014	0.000
9:27:00 AM	0.0	0.013	0.000
9:28:00 AM	0.0	0.014	0.000
9:29:00 AM	0.0	0.014	0.000
9:30:00 AM	0.0	0.014	0.000
9:31:00 AM	0.0	0.013	0.000
9:32:00 AM	0.0	0.013	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.1	0.013	0.000
9:35:00 AM	0.0	0.013	0.000
9:36:00 AM	0.1	0.013	0.000
9:37:00 AM	0.0	0.013	0.000
9:38:00 AM	0.1	0.014	0.000
9:39:00 AM	0.1	0.013	0.000
9:40:00 AM	0.0	0.013	0.000
9:41:00 AM	0.1	0.013	0.000
9:42:00 AM	0.1	0.012	0.000
9:43:00 AM	0.1	0.012	0.000
9:44:00 AM	0.1	0.013	0.000
9:45:00 AM	0.1	0.012	0.000
9:46:00 AM	0.1	0.016	0.000
9:47:00 AM	0.1	0.012	0.000
9:48:00 AM	0.2	0.012	0.000
9:49:00 AM	0.2	0.012	0.000
9:50:00 AM	0.1	0.013	0.000
9:51:00 AM	0.1	0.012	0.000
9:52:00 AM	0.2	0.012	0.000
9:53:00 AM	0.2	0.012	0.000
9:54:00 AM	0.1	0.013	0.000
9:55:00 AM	0.2	0.013	0.000
9:56:00 AM	0.2	0.013	0.000
9:57:00 AM	0.2	0.013	0.000
9:58:00 AM	0.2	0.013	0.000
9:59:00 AM	0.2	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:00:00 AM	0.2	0.012	0.000
10:01:00 AM	0.2	0.012	0.000
10:02:00 AM	0.2	0.012	0.000
10:03:00 AM	0.2	0.012	0.000
10:04:00 AM	0.2	0.013	0.000
10:05:00 AM	0.2	0.012	0.000
10:06:00 AM	0.2	0.012	0.000
10:07:00 AM	0.2	0.012	0.000
10:08:00 AM	0.2	0.012	0.000
10:09:00 AM	0.2	0.013	0.000
10:10:00 AM	0.2	0.013	0.000
10:11:00 AM	0.2	0.013	0.000
10:12:00 AM	0.3	0.012	0.000
10:13:00 AM	0.3	0.012	0.000
10:14:00 AM	0.2	0.013	0.000
10:15:00 AM	0.3	0.012	0.000
10:16:00 AM	0.3	0.014	0.000
10:17:00 AM	0.3	0.014	0.000
10:18:00 AM	0.3	0.014	0.000
10:19:00 AM	0.3	0.014	0.000
10:20:00 AM	0.3	0.013	0.000
10:21:00 AM	0.3	0.012	0.000
10:22:00 AM	0.4	0.012	0.000
10:23:00 AM	0.4	0.013	0.000
10:24:00 AM	0.4	0.013	0.000
10:25:00 AM	0.3	0.012	0.000
10:26:00 AM	0.3	0.012	0.000
10:27:00 AM	0.3	0.013	0.000
10:28:00 AM	0.4	0.013	0.000
10:29:00 AM	0.4	0.013	0.000
10:30:00 AM	0.3	0.013	0.000
10:31:00 AM	0.4	0.012	0.000
10:32:00 AM	0.4	0.013	0.000
10:33:00 AM	0.4	0.013	0.000
10:34:00 AM	0.4	0.013	0.000
10:35:00 AM	0.3	0.013	0.000
10:36:00 AM	0.4	0.012	0.000
10:37:00 AM	0.4	0.012	0.000
10:38:00 AM	0.4	0.012	0.000
10:39:00 AM	0.4	0.013	0.000
10:40:00 AM	0.4	0.013	0.000
10:41:00 AM	0.5	0.013	0.000
10:42:00 AM	0.4	0.013	0.000
10:43:00 AM	0.5	0.013	0.000
10:44:00 AM	0.4	0.013	0.000
10:45:00 AM	0.4	0.013	0.000
10:46:00 AM	0.4	0.013	0.000
10:47:00 AM	0.4	0.014	0.000
10:48:00 AM	0.5	0.013	0.000
10:49:00 AM	0.5	0.013	0.000
10:50:00 AM	0.5	0.013	0.000
10:51:00 AM	0.5	0.013	0.000
10:52:00 AM	0.5	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:53:00 AM	0.5	0.013	0.000
10:54:00 AM	0.4	0.013	0.000
10:55:00 AM	0.5	0.013	0.000
10:56:00 AM	0.5	0.014	0.000
10:57:00 AM	0.5	0.013	0.000
10:58:00 AM	0.5	0.013	0.000
10:59:00 AM	0.5	0.013	0.000
11:00:00 AM	0.5	0.013	0.000
11:01:00 AM	0.5	0.013	0.000
11:02:00 AM	0.5	0.013	0.000
11:03:00 AM	0.5	0.013	0.000
11:04:00 AM	0.5	0.013	0.000
11:05:00 AM	0.5	0.013	0.000
11:06:00 AM	0.5	0.013	0.000
11:07:00 AM	0.5	0.013	0.000
11:08:00 AM	0.5	0.013	0.000
11:09:00 AM	0.5	0.013	0.000
11:10:00 AM	0.5	0.013	0.000
11:11:00 AM	0.5	0.013	0.000
11:12:00 AM	0.6	0.013	0.000
11:13:00 AM	0.5	0.013	0.000
11:14:00 AM	0.5	0.013	0.000
11:15:00 AM	0.5	0.013	0.000
11:16:00 AM	0.5	0.013	0.000
11:17:00 AM	0.5	0.013	0.000
11:18:00 AM	0.5	0.013	0.000
11:19:00 AM	0.5	0.013	0.000
11:20:00 AM	0.5	0.012	0.000
11:21:00 AM	0.4	0.013	0.000
11:22:00 AM	0.5	0.013	0.000
11:23:00 AM	0.5	0.012	0.000
11:24:00 AM	0.5	0.013	0.000
11:25:00 AM	0.5	0.013	0.000
11:26:00 AM	0.5	0.013	0.000
11:27:00 AM	0.5	0.013	0.000
11:28:00 AM	0.5	0.013	0.000
11:29:00 AM	0.5	0.013	0.000
11:30:00 AM	0.4	0.012	0.000
11:31:00 AM	0.5	0.013	0.000
11:32:00 AM	0.5	0.013	0.000
11:33:00 AM	0.5	0.012	0.000
11:34:00 AM	0.5	0.012	0.000
11:35:00 AM	0.5	0.013	0.000
11:36:00 AM	0.5	0.013	0.000
11:37:00 AM	0.5	0.013	0.000
11:38:00 AM	0.5	0.012	0.000
11:39:00 AM	0.6	0.012	0.000
11:40:00 AM	0.6	0.013	0.000
11:41:00 AM	0.6	0.013	0.000
11:42:00 AM	0.5	0.013	0.000
11:43:00 AM	0.5	0.013	0.000
11:44:00 AM	0.6	0.012	0.000
11:45:00 AM	0.6	0.012	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:46:00 AM	0.6	0.012	0.000
11:47:00 AM	0.6	0.012	0.000
11:48:00 AM	0.6	0.012	0.000
11:49:00 AM	0.6	0.012	0.000
11:50:00 AM	0.6	0.012	0.000
11:51:00 AM	0.6	0.013	0.000
11:52:00 AM	0.6	0.013	0.000
11:53:00 AM	0.6	0.013	0.000
11:54:00 AM	0.6	0.013	0.000
11:55:00 AM	0.5	0.012	0.000
11:56:00 AM	0.6	0.012	0.000
11:57:00 AM	0.6	0.013	0.000
11:58:00 AM	0.6	0.013	0.000
11:59:00 AM	0.6	0.013	0.000
12:00:00 PM	0.6	0.013	0.000
12:01:00 PM	0.7	0.013	0.000
12:02:00 PM	0.7	0.013	0.000
12:03:00 PM	0.7	0.012	0.000
12:04:00 PM	0.7	0.017	0.000
12:05:00 PM	0.7	0.014	0.000
12:06:00 PM	0.7	0.013	0.000
12:07:00 PM	0.6	0.013	0.000
12:08:00 PM	0.6	0.014	0.000
12:09:00 PM	0.7	0.014	0.000
12:10:00 PM	0.6	0.013	0.000
12:11:00 PM	0.7	0.013	0.000
12:12:00 PM	0.7	0.013	0.000
12:13:00 PM	0.7	0.013	0.000
12:14:00 PM	0.7	0.013	0.000
12:15:00 PM	0.6	0.014	0.000
12:16:00 PM	0.6	0.014	0.000
12:17:00 PM	0.7	0.013	0.000
12:18:00 PM	0.7	0.013	0.000
12:19:00 PM	0.7	0.013	0.000
12:20:00 PM	0.7	0.013	0.000
12:21:00 PM	0.7	0.014	0.000
12:22:00 PM	0.7	0.014	0.000
12:23:00 PM	0.7	0.013	0.000
12:24:00 PM	0.7	0.013	0.000
12:25:00 PM	0.7	0.014	0.000
12:26:00 PM	0.7	0.014	0.000
12:27:00 PM	0.7	0.014	0.000
12:28:00 PM	0.8	0.014	0.000
12:29:00 PM	0.7	0.014	0.000
12:30:00 PM	0.8	0.014	0.000
12:31:00 PM	0.7	0.014	0.000
12:32:00 PM	0.8	0.014	0.000
12:33:00 PM	0.8	0.014	0.000
12:34:00 PM	0.8	0.014	0.000
12:35:00 PM	0.8	0.013	0.000
12:36:00 PM	0.7	0.013	0.000
12:37:00 PM	0.7	0.014	0.000
12:38:00 PM	0.7	0.013	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:39:00 PM	0.7	0.014	0.000
12:40:00 PM	0.8	0.014	0.000
12:41:00 PM	0.8	0.013	0.000
12:42:00 PM	0.7	0.014	0.000
12:43:00 PM	0.7	0.023	0.000
12:44:00 PM	0.7	0.014	0.000
12:45:00 PM	0.7	0.014	0.000
12:46:00 PM	0.7	0.014	0.000
12:47:00 PM	0.7	0.014	0.000
12:48:00 PM	0.8	0.013	0.000
12:49:00 PM	0.8	0.014	0.000
12:50:00 PM	0.7	0.014	0.000
12:51:00 PM	0.8	0.015	0.000
12:52:00 PM	0.7	0.015	0.000
12:53:00 PM	0.8	0.017	0.000
12:54:00 PM	0.7	0.014	0.000
12:55:00 PM	0.7	0.015	0.000
12:56:00 PM	0.7	0.016	0.000
12:57:00 PM	0.7	0.016	0.000
12:58:00 PM	0.8	0.015	0.000
12:59:00 PM	0.7	0.014	0.000
1:00:00 PM	0.7	0.015	0.000
1:01:00 PM	0.8	0.016	0.000
1:02:00 PM	0.8	0.014	0.000
1:03:00 PM	0.8	0.013	0.000
1:04:00 PM	0.8	0.013	0.000
1:05:00 PM	0.8	0.014	0.000
1:06:00 PM	0.8	0.014	0.000
1:07:00 PM	0.9	0.014	0.000
1:08:00 PM	0.8	0.015	0.000
1:09:00 PM	0.8	0.015	0.000
1:10:00 PM	0.8	0.014	0.000
1:11:00 PM	0.8	0.014	0.000
1:12:00 PM	0.8	0.014	0.000
1:13:00 PM	0.8	0.014	0.000
1:14:00 PM	0.8	0.013	0.000
1:15:00 PM	0.8	0.013	0.000
1:16:00 PM	0.8	0.014	0.000
1:17:00 PM	0.9	0.013	0.000
1:18:00 PM	0.9	0.014	0.000
1:19:00 PM	0.9	0.014	0.000
1:20:00 PM	0.9	0.014	0.000
1:21:00 PM	0.8	0.014	0.000
1:22:00 PM	0.8	0.014	0.000
1:23:00 PM	0.8	0.015	0.000
1:24:00 PM	0.8	0.013	0.000
1:25:00 PM	0.8	0.014	0.000
1:26:00 PM	0.8	0.014	0.000
1:27:00 PM	0.8	0.014	0.000
1:28:00 PM	0.9	0.013	0.000
1:29:00 PM	0.8	0.013	0.000
1:30:00 PM	0.8	0.013	0.000
1:31:00 PM	0.8	0.016	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:32:00 PM	0.8	0.014	0.000
1:33:00 PM	0.9	0.014	0.000
1:34:00 PM	0.8	0.013	0.000
1:35:00 PM	0.8	0.014	0.000
1:36:00 PM	0.9	0.013	0.000
1:37:00 PM	0.9	0.013	0.000
1:38:00 PM	0.9	0.013	0.000
1:39:00 PM	0.9	0.014	0.000
1:40:00 PM	0.8	0.014	0.000
1:41:00 PM	0.8	0.014	0.000
1:42:00 PM	0.8	0.014	0.000
1:43:00 PM	0.8	0.013	0.000
1:44:00 PM	0.8	0.014	0.000
1:45:00 PM	0.9	0.014	0.000
1:46:00 PM	0.8	0.014	0.000
1:47:00 PM	0.8	0.014	0.000
1:48:00 PM	0.8	0.014	0.000
1:49:00 PM	0.8	0.014	0.000
1:50:00 PM	0.9	0.014	0.000
1:51:00 PM	0.9	0.015	0.000
1:52:00 PM	0.8	0.014	0.000
1:53:00 PM	0.8	0.014	0.000
1:54:00 PM	0.9	0.014	0.000
1:55:00 PM	0.8	0.014	0.000
1:56:00 PM	0.8	0.013	0.000
1:57:00 PM	0.8	0.013	0.000
1:58:00 PM	0.8	0.013	0.000
1:59:00 PM	0.9	0.014	0.000
2:00:00 PM	0.9	0.017	0.000
2:01:00 PM	0.8	0.014	0.000
2:02:00 PM	0.9	0.014	0.000
2:03:00 PM	0.9	0.014	0.000
2:04:00 PM	0.8	0.014	0.000
2:05:00 PM	0.8	0.014	0.000
2:06:00 PM	0.8	0.014	0.000
2:07:00 PM	0.8	0.014	0.000
2:08:00 PM	0.8	0.014	0.000
2:09:00 PM	0.8	0.014	0.000
2:10:00 PM	0.8	0.014	0.000
2:11:00 PM	0.8	0.013	0.000
2:12:00 PM	0.8	0.014	0.000
2:13:00 PM	0.9	0.014	0.000
2:14:00 PM	0.9	0.014	0.000
2:15:00 PM	0.8	0.014	0.000
2:16:00 PM	0.8	0.015	0.000
2:17:00 PM	0.8	0.014	0.000
2:18:00 PM	0.8	0.013	0.000
2:19:00 PM	0.8	0.013	0.000
2:20:00 PM	0.8	0.013	0.000
2:21:00 PM	0.8	0.014	0.000
2:22:00 PM	0.8	0.015	0.000
2:23:00 PM	0.8	0.015	0.000
2:24:00 PM	0.8	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:25:00 PM	0.8	0.015	0.000
2:26:00 PM	0.8	0.014	0.000
2:27:00 PM	0.8	0.014	0.000
2:28:00 PM	0.8	0.019	0.000
2:29:00 PM	0.8	0.014	0.000
2:30:00 PM	0.8	0.014	0.000
2:31:00 PM	0.8	0.014	0.000
2:32:00 PM	0.7	0.015	0.000
2:33:00 PM	0.7	0.014	0.000
2:34:00 PM	0.7	0.013	0.000
2:35:00 PM	0.7	0.013	0.000
2:36:00 PM	0.8	0.013	0.000
2:37:00 PM	0.7	0.014	0.000
2:38:00 PM	0.7	0.014	0.000
2:39:00 PM	0.7	0.014	0.000
2:40:00 PM	0.7	0.014	0.000
2:41:00 PM	0.8	0.014	0.000
2:42:00 PM	0.7	0.014	0.000
2:43:00 PM	0.7	0.014	0.000
2:44:00 PM	0.7	0.014	0.000
2:45:00 PM	0.7	0.013	0.000
2:46:00 PM	0.7	0.013	0.000
2:47:00 PM	0.7	0.013	0.000
2:48:00 PM	0.7	0.013	0.000
2:49:00 PM	0.6	0.013	0.000
2:50:00 PM	0.7	0.014	0.000
2:51:00 PM	0.7	0.013	0.000
2:52:00 PM	0.7	0.015	0.000
2:53:00 PM	0.7	0.017	0.000
2:54:00 PM	0.7	0.016	0.000
2:55:00 PM	0.7	0.016	0.000
2:56:00 PM	0.6	0.017	0.000
2:57:00 PM	0.6	0.017	0.000
2:58:00 PM	0.6	0.016	0.000
2:59:00 PM	0.7	0.015	0.000
3:00:00 PM	0.7	0.015	0.000
3:01:00 PM	0.7	0.014	0.000
3:02:00 PM	0.8	0.014	0.000
3:03:00 PM	0.8	0.016	0.000
3:04:00 PM	0.6	0.016	0.000
3:05:00 PM	0.7	0.015	0.000
3:06:00 PM	0.7	0.025	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:09:00 AM	0.0	0.472	
9:10:00 AM	0.0	0.038	
9:11:00 AM	0.0	0.014	
9:12:00 AM	0.0	0.014	
9:13:00 AM	0.0	0.013	
9:14:00 AM	0.0	0.013	
9:15:00 AM	0.0	0.014	
9:16:00 AM	0.0	0.012	
9:17:00 AM	0.1	0.013	
9:18:00 AM	0.2	0.025	
9:19:00 AM	0.0	0.014	
9:20:00 AM	0.0	0.013	
9:21:00 AM	0.0	0.014	
9:22:00 AM	0.0	0.013	
9:23:00 AM	0.0	0.013	
9:24:00 AM	0.0	0.014	
9:25:00 AM	0.1	0.013	
9:26:00 AM	0.0	0.014	
9:27:00 AM	0.0	0.012	
9:28:00 AM	0.0	0.012	
9:29:00 AM	0.0	0.012	
9:30:00 AM	0.0	0.011	
9:31:00 AM	0.0	0.011	
9:32:00 AM	0.0	0.011	
9:33:00 AM	0.0	0.010	
9:34:00 AM	0.0	0.010	
9:35:00 AM	0.0	0.010	
9:36:00 AM	0.0	0.012	
9:37:00 AM	0.0	0.013	
9:38:00 AM	0.0	0.012	
9:39:00 AM	0.0	0.013	
9:40:00 AM	0.0	0.010	
9:41:00 AM	0.0	0.010	
9:42:00 AM	0.0	0.009	
9:43:00 AM	0.0	0.009	
9:44:00 AM	0.0	0.009	
9:45:00 AM	0.0	0.009	
9:46:00 AM	0.0	0.010	
9:47:00 AM	0.0	0.014	
9:48:00 AM	0.0	0.009	
9:49:00 AM	0.0	0.008	
9:50:00 AM	0.0	0.009	
9:51:00 AM	0.0	0.008	
9:52:00 AM	0.0	0.008	
9:53:00 AM	0.0	0.007	
9:54:00 AM	0.0	0.008	
9:55:00 AM	0.0	0.008	
9:56:00 AM	0.0	0.008	
9:57:00 AM	0.0	0.008	
9:58:00 AM	0.0	0.008	
9:59:00 AM	0.0	0.008	
10:00:00 AM	0.0	0.007	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:01:00 AM	0.0	0.008	
10:02:00 AM	0.0	0.007	
10:03:00 AM	0.0	0.008	
10:04:00 AM	0.0	0.007	
10:05:00 AM	0.0	0.007	
10:06:00 AM	0.0	0.009	
10:07:00 AM	0.0	0.008	
10:08:00 AM	0.0	0.008	
10:09:00 AM	0.0	0.008	
10:10:00 AM	0.0	0.008	
10:11:00 AM	0.0	0.008	
10:12:00 AM	0.0	0.008	
10:13:00 AM	0.0	0.007	
10:14:00 AM	0.0	0.007	
10:15:00 AM	0.0	0.006	
10:16:00 AM	0.0	0.007	
10:17:00 AM	0.0	0.007	
10:18:00 AM	0.0	0.007	
10:19:00 AM	0.0	0.008	
10:20:00 AM	0.0	0.007	
10:21:00 AM	0.0	0.006	
10:22:00 AM	0.0	0.007	
10:23:00 AM	0.0	0.006	
10:24:00 AM	0.0	0.007	
10:25:00 AM	0.0	0.006	
10:26:00 AM	0.0	0.007	
10:27:00 AM	0.0	0.007	
10:28:00 AM	0.0	0.007	
10:29:00 AM	0.0	0.008	
10:30:00 AM	0.0	0.007	
10:31:00 AM	0.0	0.007	
10:32:00 AM	0.0	0.007	
10:33:00 AM	0.0	0.007	
10:34:00 AM	0.0	0.011	
10:35:00 AM	0.0	0.006	
10:36:00 AM	0.0	0.006	
10:37:00 AM	0.0	0.006	
10:38:00 AM	0.0	0.007	
10:39:00 AM	0.0	0.006	
10:40:00 AM	0.0	0.007	
10:41:00 AM	0.0	0.006	
10:42:00 AM	0.0	0.006	
10:43:00 AM	0.0	0.006	
10:44:00 AM	0.0	0.006	
10:45:00 AM	0.0	0.006	
10:46:00 AM	0.0	0.006	
10:47:00 AM	0.0	0.007	
10:48:00 AM	0.0	0.006	
10:49:00 AM	0.0	0.006	
10:50:00 AM	0.0	0.007	
10:51:00 AM	0.0	0.006	
10:52:00 AM	0.0	0.006	
10:53:00 AM	0.0	0.007	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:54:00 AM	0.0	0.007	
10:55:00 AM	0.0	0.008	
10:56:00 AM	0.0	0.007	
10:57:00 AM	0.0	0.007	
10:58:00 AM	0.0	0.008	
10:59:00 AM	0.0	0.006	
11:00:00 AM	0.0	0.006	
11:01:00 AM	0.0	0.006	
11:02:00 AM	0.0	0.006	
11:03:00 AM	0.0	0.006	
11:04:00 AM	0.0	0.013	
11:05:00 AM	0.0	0.007	
11:06:00 AM	0.0	0.011	
11:07:00 AM	0.0	0.011	
11:08:00 AM	0.1	0.007	
11:09:00 AM	0.0	0.008	
11:10:00 AM	0.0	0.007	
11:11:00 AM	0.0	0.010	
11:12:00 AM	0.0	0.020	
11:13:00 AM	0.0	0.009	
11:14:00 AM	0.0	0.011	
11:15:00 AM	0.0	0.008	
11:16:00 AM	0.0	0.017	
11:17:00 AM	0.0	0.013	
11:18:00 AM	0.0	0.009	
11:19:00 AM	0.0	0.011	
11:20:00 AM	0.0	0.006	
11:21:00 AM	0.0	0.006	
11:22:00 AM	0.0	0.005	
11:23:00 AM	0.0	0.008	
11:24:00 AM	0.0	0.015	
11:25:00 AM	0.0	0.006	
11:26:00 AM	0.0	0.006	
11:27:00 AM	0.0	0.006	
11:28:00 AM	0.0	0.005	
11:29:00 AM	0.2	0.005	
11:30:00 AM	0.1	0.005	
11:31:00 AM	0.0	0.005	
11:32:00 AM	0.0	0.005	
11:33:00 AM	0.0	0.005	
11:34:00 AM	0.0	0.004	
11:35:00 AM	0.0	0.006	
11:36:00 AM	0.0	0.006	
11:37:00 AM	0.0	0.005	
11:38:00 AM	0.0	0.005	
11:39:00 AM	0.0	0.004	
11:40:00 AM	0.0	0.005	
11:41:00 AM	0.0	0.007	
11:42:00 AM	0.0	0.007	
11:43:00 AM	0.0	0.005	
11:44:00 AM	0.0	0.005	
11:45:00 AM	0.0	0.005	
11:46:00 AM	0.0	0.005	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:47:00 AM	0.0	0.005	
11:48:00 AM	0.0	0.004	
11:49:00 AM	0.0	0.005	
11:50:00 AM	0.0	0.005	
11:51:00 AM	0.0	0.005	
11:52:00 AM	0.0	0.006	
11:53:00 AM	0.0	0.005	
11:54:00 AM	0.0	0.005	
11:55:00 AM	0.1	0.004	
11:56:00 AM	0.0	0.004	
11:57:00 AM	0.1	0.004	
11:58:00 AM	0.0	0.004	
11:59:00 AM	0.0	0.004	
12:00:00 PM	0.0	0.004	
12:01:00 PM	0.0	0.004	
12:02:00 PM	0.0	0.006	
12:03:00 PM	0.0	0.007	
12:04:00 PM	0.0	0.035	
12:05:00 PM	0.0	0.011	
12:06:00 PM	0.0	0.007	
12:07:00 PM	0.0	0.005	
12:08:00 PM	0.0	0.006	
12:09:00 PM	0.0	0.006	
12:10:00 PM	0.0	0.006	
12:11:00 PM	0.0	0.007	
12:12:00 PM	0.0	0.006	
12:13:00 PM	0.0	0.008	
12:14:00 PM	0.0	0.008	
12:15:00 PM	0.0	0.006	
12:16:00 PM	0.0	0.014	
12:17:00 PM	0.0	0.005	
12:18:00 PM	0.0	0.004	
12:19:00 PM	0.0	0.004	
12:20:00 PM	0.0	0.004	
12:21:00 PM	0.0	0.005	
12:22:00 PM	0.0	0.004	
12:23:00 PM	0.0	0.006	
12:24:00 PM	0.0	0.004	
12:25:00 PM	0.0	0.007	
12:26:00 PM	0.0	0.004	
12:27:00 PM	0.0	0.005	
12:28:00 PM	0.0	0.004	
12:29:00 PM	0.0	0.006	
12:30:00 PM	0.0	0.005	
12:31:00 PM	0.0	0.006	
12:32:00 PM	0.0	0.008	
12:33:00 PM	0.0	0.005	
12:34:00 PM	0.0	0.006	
12:35:00 PM	0.0	0.004	
12:36:00 PM	0.0	0.008	
12:37:00 PM	0.0	0.016	
12:38:00 PM	0.0	0.005	
12:39:00 PM	0.0	0.005	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:40:00 PM	0.0	0.004	
12:41:00 PM	0.0	0.005	
12:42:00 PM	0.0	0.004	
12:43:00 PM	0.0	0.005	
12:44:00 PM	0.1	0.005	
12:45:00 PM	0.0	0.005	
12:46:00 PM	0.1	0.005	
12:47:00 PM	0.0	0.006	
12:48:00 PM	0.1	0.005	
12:49:00 PM	0.0	0.008	
12:50:00 PM	0.0	0.007	
12:51:00 PM	0.0	0.004	
12:52:00 PM	0.0	0.006	
12:53:00 PM	0.0	0.005	
12:54:00 PM	0.0	0.004	
12:55:00 PM	0.0	0.003	
12:56:00 PM	0.0	0.003	
12:57:00 PM	0.0	0.004	
12:58:00 PM	0.0	0.004	
12:59:00 PM	0.1	0.004	
1:00:00 PM	0.1	0.004	
1:01:00 PM	0.1	0.004	
1:02:00 PM	0.1	0.003	
1:03:00 PM	0.1	0.002	
1:04:00 PM	0.1	0.004	
1:05:00 PM	0.1	0.008	
1:06:00 PM	0.1	0.009	
1:07:00 PM	0.1	0.010	
1:08:00 PM	0.1	0.010	
1:09:00 PM	0.1	0.016	
1:10:00 PM	0.1	0.008	
1:11:00 PM	0.1	0.011	
1:12:00 PM	0.1	0.009	
1:13:00 PM	0.1	0.013	
1:14:00 PM	0.1	0.005	
1:15:00 PM	0.1	0.003	
1:16:00 PM	0.1	0.005	
1:17:00 PM	0.1	0.003	
1:18:00 PM	0.1	0.003	
1:19:00 PM	0.1	0.003	
1:20:00 PM	0.1	0.003	
1:21:00 PM	0.1	0.003	
1:22:00 PM	0.1	0.003	
1:23:00 PM	0.1	0.004	
1:24:00 PM	0.1	0.003	
1:25:00 PM	0.1	0.004	
1:26:00 PM	0.1	0.003	
1:27:00 PM	0.1	0.003	
1:28:00 PM	0.1	0.002	
1:29:00 PM	0.1	0.003	
1:30:00 PM	0.1	0.003	
1:31:00 PM	0.1	0.003	
1:32:00 PM	0.1	0.003	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:33:00 PM	0.1	0.003	
1:34:00 PM	0.1	0.002	
1:35:00 PM	0.1	0.002	
1:36:00 PM	0.1	0.004	
1:37:00 PM	0.1	0.002	
1:38:00 PM	0.1	0.002	
1:39:00 PM	0.1	0.003	
1:40:00 PM	0.1	0.004	
1:41:00 PM	0.1	0.005	
1:42:00 PM	0.1	0.003	
1:43:00 PM	0.1	0.005	
1:44:00 PM	0.1	0.003	
1:45:00 PM	0.1	0.003	
1:46:00 PM	0.2	0.003	
1:47:00 PM	0.1	0.004	
1:48:00 PM	0.1	0.003	
1:49:00 PM	0.1	0.004	
1:50:00 PM	0.1	0.003	
1:51:00 PM	0.1	0.004	
1:52:00 PM	0.2	0.004	
1:53:00 PM	0.1	0.003	
1:54:00 PM	0.1	0.008	
1:55:00 PM	0.1	0.005	
1:56:00 PM	0.1	0.005	
1:57:00 PM	0.1	0.003	
1:58:00 PM	0.1	0.005	
1:59:00 PM	0.1	0.013	
2:00:00 PM	0.1	0.004	
2:01:00 PM	0.1	0.004	
2:02:00 PM	0.1	0.014	
2:03:00 PM	0.1	0.006	
2:04:00 PM	0.1	0.007	
2:05:00 PM	0.1	0.011	
2:06:00 PM	0.1	0.006	
2:07:00 PM	0.1	0.012	
2:08:00 PM	0.1	0.006	
2:09:00 PM	0.1	0.005	
2:10:00 PM	0.1	0.003	
2:11:00 PM	0.1	0.007	
2:12:00 PM	0.2	0.002	
2:13:00 PM	0.2	0.007	
2:14:00 PM	0.2	0.003	
2:15:00 PM	0.1	0.007	
2:16:00 PM	0.1	0.003	
2:17:00 PM	0.1	0.002	
2:18:00 PM	0.2	0.003	
2:19:00 PM	0.2	0.007	
2:20:00 PM	0.2	0.008	
2:21:00 PM	0.2	0.005	
2:22:00 PM	0.1	0.014	
2:23:00 PM	0.2	0.003	
2:24:00 PM	0.2	0.003	
2:25:00 PM	0.2	0.002	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:26:00 PM	0.1	0.004	
2:27:00 PM	0.1	0.007	
2:28:00 PM	0.1	0.002	
2:29:00 PM	0.2	0.005	
2:30:00 PM	0.2	0.003	
2:31:00 PM	0.2	0.005	
2:32:00 PM	0.2	0.004	
2:33:00 PM	0.2	0.004	
2:34:00 PM	0.2	0.002	
2:35:00 PM	0.2	0.002	
2:36:00 PM	0.2	0.003	
2:37:00 PM	0.2	0.004	
2:38:00 PM	0.2	0.003	
2:39:00 PM	0.2	0.002	
2:40:00 PM	0.2	0.003	
2:41:00 PM	0.2	0.003	
2:42:00 PM	0.2	0.003	
2:43:00 PM	0.2	0.003	
2:44:00 PM	0.2	0.005	
2:45:00 PM	0.2	0.002	
2:46:00 PM	0.2	0.003	
2:47:00 PM	0.2	0.001	
2:48:00 PM	0.3	0.001	
2:49:00 PM	0.3	0.001	
2:50:00 PM	0.3	0.001	
2:51:00 PM	0.3	0.002	
2:52:00 PM	0.3	0.004	
2:53:00 PM	0.3	0.004	
2:54:00 PM	0.3	0.004	
2:55:00 PM	0.3	0.051	
2:56:00 PM	0.3	0.035	
2:57:00 PM	0.3	0.007	
2:58:00 PM	0.3	0.008	
2:59:00 PM	0.3	0.008	
3:00:00 PM	0.3	0.004	
3:01:00 PM	0.3	0.004	
3:02:00 PM	0.3	0.003	
3:03:00 PM	0.3	0.003	
3:04:00 PM	0.3	0.004	

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:14:00 AM	0.0		0.000
9:15:00 AM	0.0		0.000
9:16:00 AM	0.0	0.053	0.000
9:17:00 AM	0.0	0.019	0.000
9:18:00 AM	0.0	0.019	0.000
9:19:00 AM	0.0	0.018	0.000
9:20:00 AM	0.0	0.017	0.000
9:21:00 AM	0.0	0.018	0.000
9:22:00 AM	0.0	0.018	0.000
9:23:00 AM	0.0	0.017	0.000
9:24:00 AM	0.0	0.017	0.000
9:25:00 AM	0.0	0.017	0.000
9:26:00 AM	0.0	0.016	0.000
9:27:00 AM	0.0	0.016	0.000
9:28:00 AM	0.0	0.017	0.000
9:29:00 AM	0.0	0.018	0.000
9:30:00 AM	0.0	0.016	0.000
9:31:00 AM	0.0	0.016	0.000
9:32:00 AM	0.0	0.016	0.000
9:33:00 AM	0.0	0.017	0.000
9:34:00 AM	0.0	0.016	0.000
9:35:00 AM	0.0	0.017	0.000
9:36:00 AM	0.0	0.017	0.000
9:37:00 AM	0.0	0.016	0.000
9:38:00 AM	0.0	0.016	0.000
9:39:00 AM	0.0	0.016	0.000
9:40:00 AM	0.0	0.016	0.000
9:41:00 AM	0.0	0.016	0.000
9:42:00 AM	0.0	0.015	0.000
9:43:00 AM	0.0	0.017	0.000
9:44:00 AM	0.0	0.016	0.000
9:45:00 AM	0.0	0.015	0.000
9:46:00 AM	0.0	0.018	0.000
9:47:00 AM	0.0	0.015	0.000
9:48:00 AM	0.0	0.015	0.000
9:49:00 AM	0.0	0.014	0.000
9:50:00 AM	0.0	0.015	0.000
9:51:00 AM	0.0	0.015	0.000
9:52:00 AM	0.0	0.015	0.000
9:53:00 AM	0.0	0.015	0.000
9:54:00 AM	0.0	0.015	0.000
9:55:00 AM	0.0	0.015	0.000
9:56:00 AM	0.0	0.015	0.000
9:57:00 AM	0.0	0.016	0.000
9:58:00 AM	0.0	0.015	0.000
9:59:00 AM	0.0	0.015	0.000
10:00:00 AM	0.0	0.014	0.000
10:01:00 AM	0.0	0.015	0.000
10:02:00 AM	0.0	0.014	0.000
10:03:00 AM	0.0	0.015	0.000
10:04:00 AM	0.0	0.014	0.000
10:05:00 AM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:06:00 AM	0.0	0.014	0.000
10:07:00 AM	0.0	0.016	0.000
10:08:00 AM	0.0	0.014	0.000
10:09:00 AM	0.0	0.015	0.000
10:10:00 AM	0.0	0.015	0.000
10:11:00 AM	0.0	0.015	0.000
10:12:00 AM	0.0	0.015	0.000
10:13:00 AM	0.0	0.014	0.000
10:14:00 AM	0.0	0.015	0.000
10:15:00 AM	0.0	0.014	0.000
10:16:00 AM	0.0	0.015	0.000
10:17:00 AM	0.0	0.016	0.000
10:18:00 AM	0.0	0.016	0.000
10:19:00 AM	0.0	0.016	0.000
10:20:00 AM	0.0	0.015	0.000
10:21:00 AM	0.0	0.014	0.000
10:22:00 AM	0.0	0.014	0.000
10:23:00 AM	0.0	0.015	0.000
10:24:00 AM	0.0	0.015	0.000
10:25:00 AM	0.0	0.014	0.000
10:26:00 AM	0.0	0.014	0.000
10:27:00 AM	0.1	0.014	0.000
10:28:00 AM	0.1	0.014	0.000
10:29:00 AM	0.1	0.015	0.000
10:30:00 AM	0.1	0.015	0.000
10:31:00 AM	0.1	0.015	0.000
10:32:00 AM	0.1	0.015	0.000
10:33:00 AM	0.1	0.016	0.000
10:34:00 AM	0.1	0.015	0.000
10:35:00 AM	0.1	0.014	0.000
10:36:00 AM	0.1	0.014	0.000
10:37:00 AM	0.1	0.014	0.000
10:38:00 AM	0.1	0.014	0.000
10:39:00 AM	0.1	0.015	0.000
10:40:00 AM	0.1	0.015	0.000
10:41:00 AM	0.1	0.015	0.000
10:42:00 AM	0.1	0.015	0.000
10:43:00 AM	0.1	0.016	0.000
10:44:00 AM	0.1	0.016	0.000
10:45:00 AM	0.1	0.017	0.000
10:46:00 AM	0.1	0.016	0.000
10:47:00 AM	0.1	0.016	0.000
10:48:00 AM	0.1	0.015	0.000
10:49:00 AM	0.1	0.016	0.000
10:50:00 AM	0.1	0.015	0.000
10:51:00 AM	0.1	0.014	0.000
10:52:00 AM	0.1	0.014	0.000
10:53:00 AM	0.1	0.015	0.000
10:54:00 AM	0.1	0.015	0.000
10:55:00 AM	0.1	0.016	0.000
10:56:00 AM	0.1	0.016	0.000
10:57:00 AM	0.1	0.016	0.000
10:58:00 AM	0.1	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:59:00 AM	0.1	0.015	0.000
11:00:00 AM	0.1	0.014	0.000
11:01:00 AM	0.1	0.014	0.000
11:02:00 AM	0.1	0.014	0.000
11:03:00 AM	0.1	0.015	0.000
11:04:00 AM	0.1	0.015	0.000
11:05:00 AM	0.1	0.015	0.000
11:06:00 AM	0.1	0.015	0.000
11:07:00 AM	0.1	0.015	0.000
11:08:00 AM	0.1	0.017	0.000
11:09:00 AM	0.1	0.016	0.000
11:10:00 AM	0.1	0.015	0.000
11:11:00 AM	0.1	0.016	0.000
11:12:00 AM	0.1	0.016	0.000
11:13:00 AM	0.1	0.017	0.000
11:14:00 AM	0.1	0.014	0.000
11:15:00 AM	0.1	0.014	0.000
11:16:00 AM	0.2	0.015	0.000
11:17:00 AM	0.1	0.015	0.000
11:18:00 AM	0.1	0.014	0.000
11:19:00 AM	0.2	0.014	0.000
11:20:00 AM	0.1	0.015	0.000
11:21:00 AM	0.1	0.014	0.000
11:22:00 AM	0.1	0.013	0.000
11:23:00 AM	0.1	0.014	0.000
11:24:00 AM	0.1	0.013	0.000
11:25:00 AM	0.1	0.014	0.000
11:26:00 AM	0.1	0.014	0.000
11:27:00 AM	0.1	0.015	0.000
11:28:00 AM	0.1	0.017	0.000
11:29:00 AM	0.1	0.015	0.000
11:30:00 AM	0.1	0.015	0.000
11:31:00 AM	0.1	0.014	0.000
11:32:00 AM	0.1	0.014	0.000
11:33:00 AM	0.1	0.013	0.000
11:34:00 AM	0.1	0.013	0.000
11:35:00 AM	0.1	0.017	0.000
11:36:00 AM	0.1	0.015	0.000
11:37:00 AM	0.1	0.014	0.000
11:38:00 AM	0.1	0.014	0.000
11:39:00 AM	0.1	0.014	0.000
11:40:00 AM	0.1	0.015	0.000
11:41:00 AM	0.2	0.016	0.000
11:42:00 AM	0.1	0.014	0.000
11:43:00 AM	0.1	0.014	0.000
11:44:00 AM	0.1	0.014	0.000
11:45:00 AM	0.1	0.014	0.000
11:46:00 AM	0.1	0.013	0.000
11:47:00 AM	0.2	0.014	0.000
11:48:00 AM	0.2	0.014	0.000
11:49:00 AM	0.2	0.014	0.000
11:50:00 AM	0.2	0.014	0.000
11:51:00 AM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:52:00 AM	0.2	0.014	0.000
11:53:00 AM	0.2	0.013	0.000
11:54:00 AM	0.2	0.014	0.000
11:55:00 AM	0.2	0.013	0.000
11:56:00 AM	0.2	0.014	0.000
11:57:00 AM	0.2	0.013	0.000
11:58:00 AM	0.2	0.014	0.000
11:59:00 AM	0.2	0.014	0.000
12:00:00 PM	0.2	0.014	0.000
12:01:00 PM	0.2	0.014	0.000
12:02:00 PM	0.2	0.015	0.000
12:03:00 PM	0.2	0.017	0.000
12:04:00 PM	0.2	0.018	0.000
12:05:00 PM	0.2	0.016	0.000
12:06:00 PM	0.2	0.015	0.000
12:07:00 PM	0.2	0.015	0.000
12:08:00 PM	0.2	0.016	0.000
12:09:00 PM	0.2	0.016	0.000
12:10:00 PM	0.2	0.015	0.000
12:11:00 PM	0.2	0.015	0.000
12:12:00 PM	0.2	0.016	0.000
12:13:00 PM	0.2	0.014	0.000
12:14:00 PM	0.2	0.015	0.000
12:15:00 PM	0.2	0.015	0.000
12:16:00 PM	0.2	0.015	0.000
12:17:00 PM	0.2	0.016	0.000
12:18:00 PM	0.2	0.014	0.000
12:19:00 PM	0.2	0.014	0.000
12:20:00 PM	0.2	0.015	0.000
12:21:00 PM	0.2	0.015	0.000
12:22:00 PM	0.2	0.015	0.000
12:23:00 PM	0.2	0.015	0.000
12:24:00 PM	0.2	0.015	0.000
12:25:00 PM	0.2	0.015	0.000
12:26:00 PM	0.2	0.015	0.000
12:27:00 PM	0.2	0.015	0.000
12:28:00 PM	0.2	0.015	0.000
12:29:00 PM	0.2	0.016	0.000
12:30:00 PM	0.2	0.015	0.000
12:31:00 PM	0.2	0.015	0.000
12:32:00 PM	0.2	0.015	0.000
12:33:00 PM	0.2	0.016	0.000
12:34:00 PM	0.2	0.015	0.000
12:35:00 PM	0.2	0.015	0.000
12:36:00 PM	0.2	0.015	0.000
12:37:00 PM	0.2	0.018	0.000
12:38:00 PM	0.2	0.016	0.000
12:39:00 PM	0.2	0.015	0.000
12:40:00 PM	0.2	0.015	0.000
12:41:00 PM	0.2	0.015	0.000
12:42:00 PM	0.2	0.015	0.000
12:43:00 PM	0.2	0.015	0.000
12:44:00 PM	0.2	0.015	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:45:00 PM	0.2	0.016	0.000
12:46:00 PM	0.2	0.016	0.000
12:47:00 PM	0.2	0.016	0.000
12:48:00 PM	0.2	0.016	0.000
12:49:00 PM	0.2	0.015	0.000
12:50:00 PM	0.2	0.015	0.000
12:51:00 PM	0.2	0.016	0.000
12:52:00 PM	0.2	0.015	0.000
12:53:00 PM	0.2	0.016	0.000
12:54:00 PM	0.2	0.015	0.000
12:55:00 PM	0.2	0.015	0.000
12:56:00 PM	0.2	0.018	0.000
12:57:00 PM	0.2	0.020	0.000
12:58:00 PM	0.2	0.016	0.000
12:59:00 PM	0.2	0.015	0.000
1:00:00 PM	0.2	0.014	0.000
1:01:00 PM	0.2	0.015	0.000
1:02:00 PM	0.2	0.014	0.000
1:03:00 PM	0.2	0.014	0.000
1:04:00 PM	0.2	0.015	0.000
1:05:00 PM	0.2	0.015	0.000
1:06:00 PM	0.2	0.015	0.000
1:07:00 PM	0.2	0.015	0.000
1:08:00 PM	0.2	0.016	0.000
1:09:00 PM	0.2	0.015	0.000
1:10:00 PM	0.2	0.016	0.000
1:11:00 PM	0.2	0.015	0.000
1:12:00 PM	0.2	0.015	0.000
1:13:00 PM	0.2	0.015	0.000
1:14:00 PM	0.2	0.015	0.000
1:15:00 PM	0.2	0.013	0.000
1:16:00 PM	0.2	0.014	0.000
1:17:00 PM	0.2	0.014	0.000
1:18:00 PM	0.2	0.015	0.000
1:19:00 PM	0.2	0.015	0.000
1:20:00 PM	0.2	0.015	0.000
1:21:00 PM	0.2	0.014	0.000
1:22:00 PM	0.2	0.015	0.000
1:23:00 PM	0.2	0.015	0.000
1:24:00 PM	0.2	0.014	0.000
1:25:00 PM	0.2	0.015	0.000
1:26:00 PM	0.2	0.014	0.000
1:27:00 PM	0.2	0.014	0.000
1:28:00 PM	0.2	0.014	0.000
1:29:00 PM	0.2	0.014	0.000
1:30:00 PM	0.2	0.015	0.000
1:31:00 PM	0.2	0.015	0.000
1:32:00 PM	0.2	0.015	0.000
1:33:00 PM	0.2	0.014	0.000
1:34:00 PM	0.2	0.014	0.000
1:35:00 PM	0.2	0.014	0.000
1:36:00 PM	0.2	0.014	0.000
1:37:00 PM	0.2	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:38:00 PM	0.2	0.014	0.000
1:39:00 PM	0.2	0.015	0.000
1:40:00 PM	0.2	0.015	0.000
1:41:00 PM	0.2	0.014	0.000
1:42:00 PM	0.2	0.014	0.000
1:43:00 PM	0.2	0.014	0.000
1:44:00 PM	0.2	0.014	0.000
1:45:00 PM	0.2	0.015	0.000
1:46:00 PM	0.2	0.015	0.000
1:47:00 PM	0.2	0.015	0.000
1:48:00 PM	0.2	0.015	0.000
1:49:00 PM	0.2	0.014	0.000
1:50:00 PM	0.2	0.015	0.000
1:51:00 PM	0.3	0.018	0.000
1:52:00 PM	0.3	0.015	0.000
1:53:00 PM	0.3	0.014	0.000
1:54:00 PM	0.3	0.016	0.000
1:55:00 PM	0.3	0.016	0.000
1:56:00 PM	0.2	0.014	0.000
1:57:00 PM	0.3	0.014	0.000
1:58:00 PM	0.3	0.014	0.000
1:59:00 PM	0.2	0.014	0.000
2:00:00 PM	0.3	0.014	0.000
2:01:00 PM	0.3	0.014	0.000
2:02:00 PM	0.3	0.014	0.000
2:03:00 PM	0.3	0.014	0.000
2:04:00 PM	0.3	0.015	0.000
2:05:00 PM	0.3	0.015	0.000
2:06:00 PM	0.3	0.015	0.000
2:07:00 PM	0.3	0.014	0.000
2:08:00 PM	0.3	0.016	0.000
2:09:00 PM	0.3	0.015	0.000
2:10:00 PM	0.3	0.015	0.000
2:11:00 PM	0.3	0.015	0.000
2:12:00 PM	0.3	0.015	0.000
2:13:00 PM	0.3	0.015	0.000
2:14:00 PM	0.3	0.015	0.000
2:15:00 PM	0.3	0.015	0.000
2:16:00 PM	0.3	0.016	0.000
2:17:00 PM	0.3	0.015	0.000
2:18:00 PM	0.3	0.014	0.000
2:19:00 PM	0.3	0.014	0.000
2:20:00 PM	0.3	0.014	0.000
2:21:00 PM	0.3	0.015	0.000
2:22:00 PM	0.3	0.015	0.000
2:23:00 PM	0.3	0.016	0.000
2:24:00 PM	0.3	0.016	0.000
2:25:00 PM	0.3	0.014	0.000
2:26:00 PM	0.3	0.013	0.000
2:27:00 PM	0.3	0.013	0.000
2:28:00 PM	0.3	0.013	0.000
2:29:00 PM	0.3	0.013	0.000
2:30:00 PM	0.3	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 6, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:31:00 PM	0.3	0.017	0.000
2:32:00 PM	0.3	0.016	0.000
2:33:00 PM	0.3	0.014	0.000
2:34:00 PM	0.3	0.014	0.000
2:35:00 PM	0.3	0.013	0.000
2:36:00 PM	0.3	0.013	0.000
2:37:00 PM	0.3	0.015	0.000
2:38:00 PM	0.3	0.017	0.000
2:39:00 PM	0.3	0.014	0.000
2:40:00 PM	0.3	0.015	0.000
2:41:00 PM	0.3	0.016	0.000
2:42:00 PM	0.3	0.015	0.000
2:43:00 PM	0.3	0.014	0.000
2:44:00 PM	0.3	0.014	0.000
2:45:00 PM	0.3	0.014	0.000
2:46:00 PM	0.3	0.013	0.000
2:47:00 PM	0.3	0.014	0.000
2:48:00 PM	0.3	0.015	0.000
2:49:00 PM	0.3	0.017	0.000
2:50:00 PM	0.3	0.017	0.000
2:51:00 PM	0.3	0.022	0.000
2:52:00 PM	0.3	0.027	0.000
2:53:00 PM	0.3	0.021	0.000
2:54:00 PM	0.3	0.016	0.000
2:55:00 PM	0.3	0.017	0.000
2:56:00 PM	0.3	0.017	0.000
2:57:00 PM	0.3	0.016	0.000
2:58:00 PM	0.3	0.017	0.000
2:59:00 PM	0.3	0.016	0.000
3:00:00 PM	0.3	0.015	0.000
3:01:00 PM	0.3	0.014	0.000
3:02:00 PM	0.3	0.016	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~ 10 mph	Date:	4/7/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco loading out roll off with soils from stockpile for transport and disposal at clean earth Carteret. Aarco continues to backfill and compact the excavation area with sand and stone. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site and two high risk workers were sampled and submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.1	0.014	0.000	0.3	0.136	0.000
Down Wind	0.1	0.006	0.000	0.3	0.0104-7-21	0.000
Work Zone	0.1	0.003	-	0.2	0.020	-

Exceedances (Since Last Report): None

Problems Encountered: Work Zone Mercury monitor data corrupted and not able to be read.

Planned Activities for the Next Day/ Week:

- Aarco will continue to backfill the excavation.



Aarco loading out soils for disposal.



Aarco loading out digging box.

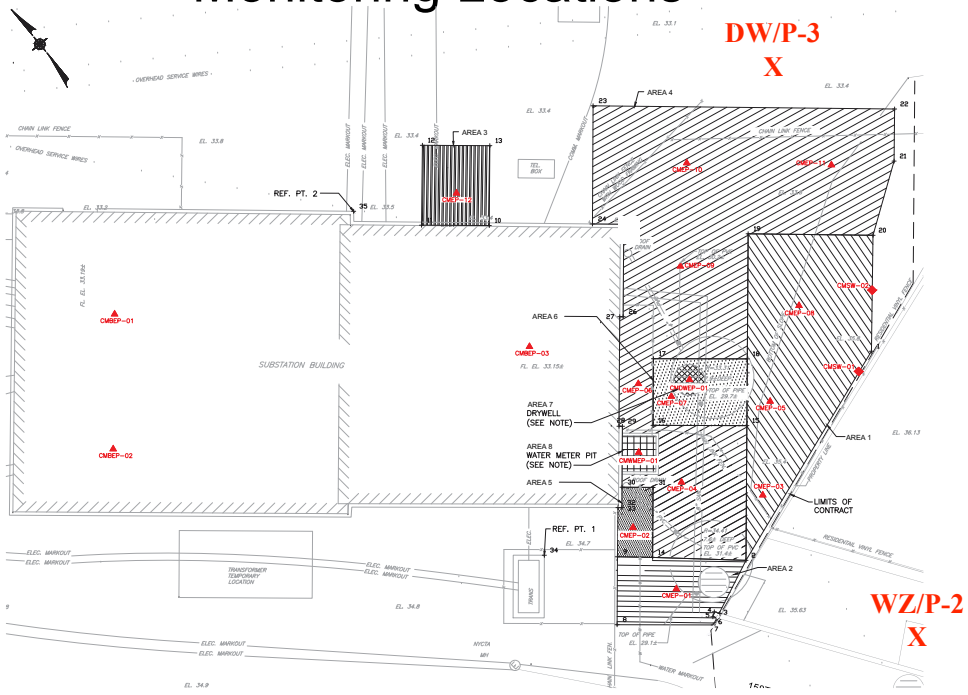


Aarco backfilling excavation area.



Aarco compacting all backfilled areas.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:21:00 AM	0.0		0.000
9:22:00 AM	0.0	0.034	0.000
9:23:00 AM	0.0	0.010	0.000
9:24:00 AM	0.0	0.009	0.000
9:25:00 AM	0.0	0.007	0.000
9:26:00 AM	0.0	0.007	0.000
9:27:00 AM	0.0	0.008	0.000
9:28:00 AM	0.0	0.006	0.000
9:29:00 AM	0.0	0.006	0.000
9:30:00 AM	0.0	0.007	0.000
9:31:00 AM	0.0	0.009	0.000
9:32:00 AM	0.0	0.006	0.000
9:33:00 AM	0.0	0.006	0.000
9:34:00 AM	0.0	0.005	0.000
9:35:00 AM	0.0	0.005	0.000
9:36:00 AM	0.0	0.006	0.000
9:37:00 AM	0.0	0.006	0.000
9:38:00 AM	0.0	0.007	0.000
9:39:00 AM	0.0	0.005	0.000
9:40:00 AM	0.0	0.005	0.000
9:41:00 AM	0.0	0.007	0.000
9:42:00 AM	0.0	0.005	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.005	0.000
9:45:00 AM	0.0	0.006	0.000
9:46:00 AM	0.0	0.005	0.000
9:47:00 AM	0.0	0.005	0.000
9:48:00 AM	0.0	0.005	0.000
9:49:00 AM	0.0	0.005	0.000
9:50:00 AM	0.0	0.005	0.000
9:51:00 AM	0.0	0.005	0.000
9:52:00 AM	0.0	0.006	0.000
9:53:00 AM	0.0	0.007	0.000
9:54:00 AM	0.0	0.009	0.000
9:55:00 AM	0.0	0.008	0.000
9:56:00 AM	0.0	0.007	0.000
9:57:00 AM	0.0	0.007	0.000
9:58:00 AM	0.0	0.005	0.000
9:59:00 AM	0.0	1.430	0.000
10:00:00 AM	0.0	0.467	0.000
10:01:00 AM	0.0	0.034	0.000
10:02:00 AM	0.0	0.008	0.000
10:03:00 AM	0.0	0.006	0.000
10:04:00 AM	0.0	0.005	0.000
10:05:00 AM	0.0	0.005	0.000
10:06:00 AM	0.0	0.005	0.000
10:07:00 AM	0.0	0.005	0.000
10:08:00 AM	0.0	0.045	0.000
10:09:00 AM	0.0	0.009	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.005	0.000
10:12:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:13:00 AM	0.0	0.005	0.000
10:14:00 AM	0.0	0.004	0.000
10:15:00 AM	0.0	0.004	0.000
10:16:00 AM	0.0	0.004	0.000
10:17:00 AM	0.0	0.004	0.000
10:18:00 AM	0.0	0.005	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.006	0.000
10:21:00 AM	0.0	0.009	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.005	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.008	0.000
10:27:00 AM	0.0	0.007	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.006	0.000
10:30:00 AM	0.0	0.005	0.000
10:31:00 AM	0.0	0.005	0.000
10:32:00 AM	0.0	0.005	0.000
10:33:00 AM	0.0	0.007	0.000
10:34:00 AM	0.0	0.011	0.000
10:35:00 AM	0.0	0.005	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.005	0.000
10:39:00 AM	0.0	0.005	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.005	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.006	0.000
10:52:00 AM	0.0	0.005	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.005	0.000
10:57:00 AM	0.0	0.004	0.000
10:58:00 AM	0.0	0.004	0.000
10:59:00 AM	0.0	0.004	0.000
11:00:00 AM	0.0	0.004	0.000
11:01:00 AM	0.0	0.004	0.000
11:02:00 AM	0.0	0.004	0.000
11:03:00 AM	0.0	0.005	0.000
11:04:00 AM	0.0	0.005	0.000
11:05:00 AM	0.0	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:06:00 AM	0.0	0.004	0.000
11:07:00 AM	0.0	0.004	0.000
11:08:00 AM	0.0	0.005	0.000
11:09:00 AM	0.0	0.007	0.000
11:10:00 AM	0.0	0.004	0.000
11:11:00 AM	0.0	0.004	0.000
11:12:00 AM	0.0	0.005	0.000
11:13:00 AM	0.0	0.004	0.000
11:14:00 AM	0.0	0.004	0.000
11:15:00 AM	0.0	0.004	0.000
11:16:00 AM	0.0	0.004	0.000
11:17:00 AM	0.0	0.004	0.000
11:18:00 AM	0.0	0.006	0.000
11:19:00 AM	0.0	0.005	0.000
11:20:00 AM	0.0	0.004	0.000
11:21:00 AM	0.0	0.005	0.000
11:22:00 AM	0.0	0.005	0.000
11:23:00 AM	0.0	0.004	0.000
11:24:00 AM	0.0	0.005	0.000
11:25:00 AM	0.0	0.005	0.000
11:26:00 AM	0.0	0.005	0.000
11:27:00 AM	0.0	0.005	0.000
11:28:00 AM	0.0	0.005	0.000
11:29:00 AM	0.0	0.004	0.000
11:30:00 AM	0.0	0.006	0.000
11:31:00 AM	0.0	0.004	0.000
11:32:00 AM	0.0	0.004	0.000
11:33:00 AM	0.0	0.005	0.000
11:34:00 AM	0.0	0.007	0.000
11:35:00 AM	0.0	0.004	0.000
11:36:00 AM	0.0	0.007	0.000
11:37:00 AM	0.0	0.005	0.000
11:38:00 AM	0.0	0.005	0.000
11:39:00 AM	0.0	0.005	0.000
11:40:00 AM	0.0	0.005	0.000
11:41:00 AM	0.0	0.006	0.000
11:42:00 AM	0.0	0.006	0.000
11:43:00 AM	0.0	0.005	0.000
11:44:00 AM	0.0	0.005	0.000
11:45:00 AM	0.0	0.005	0.000
11:46:00 AM	0.0	0.008	0.000
11:47:00 AM	0.0	0.004	0.000
11:48:00 AM	0.0	0.004	0.000
11:49:00 AM	0.1	0.004	0.000
11:50:00 AM	0.0	0.005	0.000
11:51:00 AM	0.0	0.004	0.000
11:52:00 AM	0.0	0.014	0.000
11:53:00 AM	0.0	0.019	0.000
11:54:00 AM	0.0	0.014	0.000
11:55:00 AM	0.0	0.010	0.000
11:56:00 AM	0.0	0.004	0.000
11:57:00 AM	0.0	0.005	0.000
11:58:00 AM	0.0	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:59:00 AM	0.0	0.004	0.000
12:00:00 PM	0.0	0.004	0.000
12:01:00 PM	0.1	0.005	0.000
12:02:00 PM	0.0	0.004	0.000
12:03:00 PM	0.0	0.005	0.000
12:04:00 PM	0.0	0.005	0.000
12:05:00 PM	0.0	0.004	0.000
12:06:00 PM	0.0	0.004	0.000
12:07:00 PM	0.1	0.004	0.000
12:08:00 PM	0.1	0.004	0.000
12:09:00 PM	0.0	0.004	0.000
12:10:00 PM	0.1	0.006	0.000
12:11:00 PM	0.1	0.005	0.000
12:12:00 PM	0.1	0.005	0.000
12:13:00 PM	0.1	0.005	0.000
12:14:00 PM	0.1	0.005	0.000
12:15:00 PM	0.1	0.005	0.000
12:16:00 PM	0.0	0.005	0.000
12:17:00 PM	0.1	0.005	0.000
12:18:00 PM	0.1	0.005	0.000
12:19:00 PM	0.1	0.005	0.000
12:20:00 PM	0.1	0.005	0.000
12:21:00 PM	0.1	0.006	0.000
12:22:00 PM	0.1	0.005	0.000
12:23:00 PM	0.1	0.005	0.000
12:24:00 PM	0.1	0.005	0.000
12:25:00 PM	0.1	0.006	0.000
12:26:00 PM	0.1	0.005	0.000
12:27:00 PM	0.1	0.005	0.000
12:28:00 PM	0.2	0.005	0.000
12:29:00 PM	0.1	0.005	0.000
12:30:00 PM	0.1	0.005	0.000
12:31:00 PM	0.1	0.006	0.000
12:32:00 PM	0.2	0.007	0.000
12:33:00 PM	0.1	0.007	0.000
12:34:00 PM	0.1	0.007	0.000
12:35:00 PM	0.1	0.007	0.000
12:36:00 PM	0.2	0.007	0.000
12:37:00 PM	0.1	0.008	0.000
12:38:00 PM	0.1	0.007	0.000
12:39:00 PM	0.2	0.008	0.000
12:40:00 PM	0.2	0.008	0.000
12:41:00 PM	0.1	0.008	0.000
12:42:00 PM	0.2	0.008	0.000
12:43:00 PM	0.2	0.007	0.000
12:44:00 PM	0.2	0.008	0.000
12:45:00 PM	0.2	0.008	0.000
12:46:00 PM	0.2	0.008	0.000
12:47:00 PM	0.2	0.008	0.000
12:48:00 PM	0.2	0.009	0.000
12:49:00 PM	0.3	0.008	0.000
12:50:00 PM	0.2	0.007	0.000
12:51:00 PM	0.2	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:52:00 PM	0.2	0.008	0.000
12:53:00 PM	0.2	0.007	0.000
12:54:00 PM	0.3	0.007	0.000
12:55:00 PM	0.3	0.009	0.000
12:56:00 PM	0.3	0.010	0.000
12:57:00 PM	0.3	0.010	0.000
12:58:00 PM	0.3	0.009	0.000
12:59:00 PM	0.3	0.009	0.000
1:00:00 PM	0.3	0.009	0.000
1:01:00 PM	0.2	0.009	0.000
1:02:00 PM	0.3	0.009	0.000
1:03:00 PM	0.2	0.009	0.000
1:04:00 PM	0.3	0.010	0.000
1:05:00 PM	0.3	0.010	0.000
1:06:00 PM	0.3	0.013	0.000
1:07:00 PM	0.3	0.012	0.000
1:08:00 PM	0.3	0.010	0.000
1:09:00 PM	0.3	0.010	0.000
1:10:00 PM	0.4	0.010	0.000
1:11:00 PM	0.6	0.010	0.000
1:12:00 PM	0.6	0.040	0.000
1:13:00 PM	0.4	0.028	0.000
1:14:00 PM	0.3	0.010	0.000
1:15:00 PM	0.2	0.009	0.000
1:16:00 PM	0.3	0.009	0.000
1:17:00 PM	0.2	0.009	0.000
1:18:00 PM	0.2	0.009	0.000
1:19:00 PM	0.2	0.009	0.000
1:20:00 PM	0.2	0.009	0.000
1:21:00 PM	0.2	0.008	0.000
1:22:00 PM	0.1	0.008	0.000
1:23:00 PM	0.2	0.009	0.000
1:24:00 PM	0.2	0.008	0.000
1:25:00 PM	0.2	0.009	0.000
1:26:00 PM	0.2	0.009	0.000
1:27:00 PM	0.2	0.009	0.000
1:28:00 PM	0.1	0.008	0.000
1:29:00 PM	0.2	0.008	0.000
1:30:00 PM	0.2	0.008	0.000
1:31:00 PM	0.1	0.009	0.000
1:32:00 PM	0.1	0.009	0.000
1:33:00 PM	0.0	0.009	0.000
1:34:00 PM	0.2	0.014	0.000
1:35:00 PM	0.0	0.010	0.000
1:36:00 PM	0.0	0.009	0.000
1:37:00 PM	0.1	0.008	0.000
1:38:00 PM	0.0	0.009	0.000
1:39:00 PM	0.1	0.012	0.000
1:40:00 PM	0.1	0.010	0.000
1:41:00 PM	0.1	0.011	0.000
1:42:00 PM	0.1	0.015	0.000
1:43:00 PM	0.1	0.011	0.000
1:44:00 PM	0.1	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:45:00 PM	0.1	0.009	0.000
1:46:00 PM	0.1	0.009	0.000
1:47:00 PM	0.1	0.011	0.000
1:48:00 PM	0.1	0.009	0.000
1:49:00 PM	0.1	0.009	0.000
1:50:00 PM	0.1	0.009	0.000
1:51:00 PM	0.1	0.009	0.000
1:52:00 PM	0.2	0.017	0.000
1:53:00 PM	0.1	0.013	0.000
1:54:00 PM	0.0	0.015	0.000
1:55:00 PM	0.1	0.013	0.000
1:56:00 PM	0.1	0.009	0.000
1:57:00 PM	0.1	0.011	0.000
1:58:00 PM	0.0	0.010	0.000
1:59:00 PM	0.0	0.009	0.000
2:00:00 PM	0.1	0.009	0.000
2:01:00 PM	0.1	0.009	0.000
2:02:00 PM	0.1	0.021	0.000
2:03:00 PM	0.1	0.010	0.000
2:04:00 PM	0.1	0.017	0.000
2:05:00 PM	0.1	0.015	0.000
2:06:00 PM	0.1	0.010	0.000
2:07:00 PM	0.1	0.009	0.000
2:08:00 PM	0.1	0.009	0.000
2:09:00 PM	0.1	0.008	0.000
2:10:00 PM	0.1	0.008	0.000
2:11:00 PM	0.1	0.008	0.000
2:12:00 PM	0.1	0.009	0.000
2:13:00 PM	0.1	0.009	0.000
2:14:00 PM	0.0	0.009	0.000
2:15:00 PM	0.1	0.008	0.000
2:16:00 PM	0.0	0.008	0.000
2:17:00 PM	0.0	0.009	0.000
2:18:00 PM	0.0	0.008	0.000
2:19:00 PM	0.0	0.009	0.000
2:20:00 PM	0.0	0.008	0.000
2:21:00 PM	0.0	0.009	0.000
2:22:00 PM	0.0	0.008	0.000
2:23:00 PM	0.1	0.009	0.000
2:24:00 PM	0.0	0.009	0.000
2:25:00 PM	0.0	0.008	0.000
2:26:00 PM	0.0	0.008	0.000
2:27:00 PM	0.0	0.009	0.000
2:28:00 PM	0.0	0.010	0.000
2:29:00 PM	0.0	0.010	0.000
2:30:00 PM	0.0	0.009	0.000
2:31:00 PM	0.0	0.010	0.000
2:32:00 PM	0.0	0.012	0.000
2:33:00 PM	0.0	0.010	0.000
2:34:00 PM	0.0	0.010	0.000
2:35:00 PM	0.0	0.009	0.000
2:36:00 PM	0.0	0.009	0.000
2:37:00 PM	0.0	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
2:38:00 PM	0.0	0.012	0.000
2:39:00 PM	0.0	0.014	0.000
2:40:00 PM	0.0	0.010	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:25:00 AM	0.0	0.134	
9:26:00 AM	0.0	0.012	
9:27:00 AM	0.0	0.009	
9:28:00 AM	0.0	0.004	
9:29:00 AM	0.0	0.004	
9:30:00 AM	0.0	0.004	
9:31:00 AM	0.0	0.004	
9:32:00 AM	0.0	0.004	
9:33:00 AM	0.0	0.003	
9:34:00 AM	0.0	0.003	
9:35:00 AM	0.0	0.003	
9:36:00 AM	0.0	0.003	
9:37:00 AM	0.0	0.003	
9:38:00 AM	0.0	0.003	
9:39:00 AM	0.0	0.002	
9:40:00 AM	0.0	0.002	
9:41:00 AM	0.0	0.003	
9:42:00 AM	0.0	0.002	
9:43:00 AM	0.0	0.002	
9:44:00 AM	0.0	0.001	
9:45:00 AM	0.0	0.001	
9:46:00 AM	0.0	0.002	
9:47:00 AM	0.0	0.001	
9:48:00 AM	0.0	0.001	
9:49:00 AM	0.0	0.001	
9:50:00 AM	0.0	0.002	
9:51:00 AM	0.0	0.003	
9:52:00 AM	0.0	0.003	
9:53:00 AM	0.0	0.004	
9:54:00 AM	0.0	0.003	
9:55:00 AM	0.0	0.003	
9:56:00 AM	0.0	0.003	
9:57:00 AM	0.0	0.002	
9:58:00 AM	0.0	0.002	
9:59:00 AM	0.0	0.003	
10:00:00 AM	0.0	0.002	
10:01:00 AM	0.0	0.005	
10:02:00 AM	0.0	0.002	
10:03:00 AM	0.0	0.001	
10:04:00 AM	0.0	0.001	
10:05:00 AM	0.0	0.001	
10:06:00 AM	0.0	0.002	
10:07:00 AM	0.0	0.002	
10:08:00 AM	0.0	0.008	
10:09:00 AM	0.0	0.003	
10:10:00 AM	0.0	0.002	
10:11:00 AM	0.0	0.001	
10:12:00 AM	0.0	0.007	
10:13:00 AM	0.0	0.003	
10:14:00 AM	0.0	0.004	
10:15:00 AM	0.0	0.004	
10:16:00 AM	0.0	0.003	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:17:00 AM	0.0	0.005	
10:18:00 AM	0.0	0.005	
10:19:00 AM	0.0	0.002	
10:20:00 AM	0.0	0.004	
10:21:00 AM	0.0	0.003	
10:22:00 AM	0.0	0.001	
10:23:00 AM	0.0	0.002	
10:24:00 AM	0.0	0.001	
10:25:00 AM	0.0	0.001	
10:26:00 AM	0.0	0.001	
10:27:00 AM	0.0	0.003	
10:28:00 AM	0.0	0.002	
10:29:00 AM	0.0	0.001	
10:30:00 AM	0.0	0.004	
10:31:00 AM	0.0	0.006	
10:32:00 AM	0.0	0.002	
10:33:00 AM	0.0	0.003	
10:34:00 AM	0.0	0.002	
10:35:00 AM	0.0	0.005	
10:36:00 AM	0.0	0.005	
10:37:00 AM	0.0	0.002	
10:38:00 AM	0.0	0.004	
10:39:00 AM	0.0	0.007	
10:40:00 AM	0.0	0.003	
10:41:00 AM	0.0	0.002	
10:42:00 AM	0.0	0.004	
10:43:00 AM	0.0	0.006	
10:44:00 AM	0.0	0.007	
10:45:00 AM	0.0	0.008	
10:46:00 AM	0.0	0.005	
10:47:00 AM	0.0	0.002	
10:48:00 AM	0.0	0.003	
10:49:00 AM	0.0	0.004	
10:50:00 AM	0.0	0.001	
10:51:00 AM	0.0	0.004	
10:52:00 AM	0.0	0.003	
10:53:00 AM	0.0	0.005	
10:54:00 AM	0.0	0.005	
10:55:00 AM	0.0	0.005	
10:56:00 AM	0.0	0.007	
10:57:00 AM	0.0	0.005	
10:58:00 AM	0.0	0.002	
10:59:00 AM	0.0	0.001	
11:00:00 AM	0.0	0.000	
11:01:00 AM	0.0	0.001	
11:02:00 AM	0.0	0.002	
11:03:00 AM	0.0	0.000	
11:04:00 AM	0.0	0.001	
11:05:00 AM	0.0	0.002	
11:06:00 AM	0.0	0.003	
11:07:00 AM	0.0	0.001	
11:08:00 AM	0.0	0.001	
11:09:00 AM	0.0	0.001	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:10:00 AM	0.0	0.000	
11:11:00 AM	0.0	0.000	
11:12:00 AM	0.1	0.001	
11:13:00 AM	0.1	0.000	
11:14:00 AM	0.0	0.000	
11:15:00 AM	0.0	0.000	
11:16:00 AM	0.0	0.000	
11:17:00 AM	0.0	0.000	
11:18:00 AM	0.1	0.001	
11:19:00 AM	0.0	0.000	
11:20:00 AM	0.0	0.000	
11:21:00 AM	0.0	0.000	
11:22:00 AM	0.0	0.000	
11:23:00 AM	0.0	0.000	
11:24:00 AM	0.0	0.000	
11:25:00 AM	0.0	0.000	
11:26:00 AM	0.0	0.000	
11:27:00 AM	0.0	0.000	
11:28:00 AM	0.0	0.000	
11:29:00 AM	0.0	0.000	
11:30:00 AM	0.0	0.000	
11:31:00 AM	0.0	0.000	
11:32:00 AM	0.0	0.000	
11:33:00 AM	0.0	0.000	
11:34:00 AM	0.0	0.000	
11:35:00 AM	0.0	0.000	
11:36:00 AM	0.0	0.000	
11:37:00 AM	0.0	0.000	
11:38:00 AM	0.0	0.005	
11:39:00 AM	0.0	0.002	
11:40:00 AM	0.2	0.000	
11:41:00 AM	0.0	0.000	
11:42:00 AM	0.0	0.000	
11:43:00 AM	0.1	0.000	
11:44:00 AM	0.0	0.002	
11:45:00 AM	0.0	0.006	
11:46:00 AM	0.0	0.004	
11:47:00 AM	0.0	0.000	
11:48:00 AM	0.0	0.000	
11:49:00 AM	0.0	0.000	
11:50:00 AM	0.0	0.000	
11:51:00 AM	0.0	0.001	
11:52:00 AM	0.0	0.010	
11:53:00 AM	0.0	0.011	
11:54:00 AM	0.1	0.002	
11:55:00 AM	0.1	0.015	
11:56:00 AM	0.1	0.004	
11:57:00 AM	0.1	0.001	
11:58:00 AM	0.1	0.002	
11:59:00 AM	0.0	0.001	
12:00:00 PM	0.1	0.000	
12:01:00 PM	0.1	0.000	
12:02:00 PM	0.1	0.000	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:03:00 PM	0.1	0.000	
12:04:00 PM	0.1	0.000	
12:05:00 PM	0.1	0.000	
12:06:00 PM	0.1	0.000	
12:07:00 PM	0.1	0.000	
12:08:00 PM	0.1	0.000	
12:09:00 PM	0.1	0.000	
12:10:00 PM	0.1	0.001	
12:11:00 PM	0.1	0.001	
12:12:00 PM	0.1	0.000	
12:13:00 PM	0.1	0.000	
12:14:00 PM	0.1	0.000	
12:15:00 PM	0.1	0.000	
12:16:00 PM	0.1	0.000	
12:17:00 PM	0.1	0.000	
12:18:00 PM	0.1	0.000	
12:19:00 PM	0.1	0.001	
12:20:00 PM	0.1	0.000	
12:21:00 PM	0.1	0.000	
12:22:00 PM	0.1	0.000	
12:23:00 PM	0.1	0.000	
12:24:00 PM	0.1	0.000	
12:25:00 PM	0.1	0.000	
12:26:00 PM	0.1	0.000	
12:27:00 PM	0.1	0.000	
12:28:00 PM	0.1	0.000	
12:29:00 PM	0.1	0.000	
12:30:00 PM	0.1	0.000	
12:31:00 PM	0.1	0.000	
12:32:00 PM	0.1	0.000	
12:33:00 PM	0.1	0.000	
12:34:00 PM	0.1	0.000	
12:35:00 PM	0.1	0.000	
12:36:00 PM	0.1	0.000	
12:37:00 PM	0.1	0.000	
12:38:00 PM	0.1	0.000	
12:39:00 PM	0.1	0.000	
12:40:00 PM	0.1	0.000	
12:41:00 PM	0.1	0.000	
12:42:00 PM	0.1	0.001	
12:43:00 PM	0.1	0.000	
12:44:00 PM	0.1	0.003	
12:45:00 PM	0.1	0.002	
12:46:00 PM	0.1	0.019	
12:47:00 PM	0.1	0.002	
12:48:00 PM	0.1	0.001	
12:49:00 PM	0.1	0.000	
12:50:00 PM	0.1	0.000	
12:51:00 PM	0.1	0.000	
12:52:00 PM	0.1	0.000	
12:53:00 PM	0.1	0.004	
12:54:00 PM	0.2	0.001	
12:55:00 PM	0.1	0.005	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:56:00 PM	0.2	0.001	
12:57:00 PM	0.2	0.001	
12:58:00 PM	0.2	0.010	
12:59:00 PM	0.2	0.001	
1:00:00 PM	0.1	0.010	
1:01:00 PM	0.1	0.001	
1:02:00 PM	0.1	0.005	
1:03:00 PM	0.2	0.002	
1:04:00 PM	0.2	0.011	
1:05:00 PM	0.2	0.002	
1:06:00 PM	0.2	0.003	
1:07:00 PM	0.2	0.001	
1:08:00 PM	0.1	0.013	
1:09:00 PM	0.2	0.007	
1:10:00 PM	0.2	0.002	
1:11:00 PM	0.2	0.009	
1:12:00 PM	0.2	0.009	
1:13:00 PM	0.2	0.114	
1:14:00 PM	0.2	0.021	
1:15:00 PM	0.2	0.012	
1:16:00 PM	0.2	0.001	
1:17:00 PM	0.2	0.001	
1:18:00 PM	0.2	0.003	
1:19:00 PM	0.2	0.097	
1:20:00 PM	0.2	0.007	
1:21:00 PM	0.2	0.001	
1:22:00 PM	0.2	0.000	
1:23:00 PM	0.2	0.002	
1:24:00 PM	0.1	0.000	
1:25:00 PM	0.1	0.001	
1:26:00 PM	0.1	0.002	
1:27:00 PM	0.1	0.001	
1:28:00 PM	0.1	0.000	
1:29:00 PM	0.1	0.006	
1:30:00 PM	0.1	0.021	
1:31:00 PM	0.1	0.005	
1:32:00 PM	0.1	0.003	
1:33:00 PM	0.1	0.001	
1:34:00 PM	0.1	0.003	
1:35:00 PM	0.1	0.002	
1:36:00 PM	0.1	0.001	
1:37:00 PM	0.1	0.004	
1:38:00 PM	0.1	0.002	
1:39:00 PM	0.1	0.000	
1:40:00 PM	0.1	0.000	
1:41:00 PM	0.1	0.000	
1:42:00 PM	0.1	0.000	
1:43:00 PM	0.1	0.001	
1:44:00 PM	0.1	0.002	
1:45:00 PM	0.1	0.002	
1:46:00 PM	0.1	0.001	
1:47:00 PM	0.1	0.001	
1:48:00 PM	0.1	0.007	

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:49:00 PM	0.1	0.000	
1:50:00 PM	0.2	0.006	
1:51:00 PM	0.1	0.007	
1:52:00 PM	0.1	0.000	
1:53:00 PM	0.1	0.000	
1:54:00 PM	0.1	0.003	
1:55:00 PM	0.1	0.010	
1:56:00 PM	0.1	0.001	
1:57:00 PM	0.1	0.000	
1:58:00 PM	0.1	0.005	
1:59:00 PM	0.1	0.009	
2:00:00 PM	0.1	0.002	
2:01:00 PM	0.1	0.001	
2:02:00 PM	0.1	0.002	
2:03:00 PM	0.1	0.000	
2:04:00 PM	0.1	0.000	
2:05:00 PM	0.1	0.000	
2:06:00 PM	0.1	0.000	
2:07:00 PM	0.1	0.000	
2:08:00 PM	0.1	0.000	
2:09:00 PM	0.1	0.001	
2:10:00 PM	0.1	0.002	
2:11:00 PM	0.1	0.011	
2:12:00 PM	0.1	0.001	
2:13:00 PM	0.1	0.001	
2:14:00 PM	0.1	0.000	
2:15:00 PM	0.1	0.000	
2:16:00 PM	0.1	0.000	
2:17:00 PM	0.1	0.013	
2:18:00 PM	0.1	0.001	
2:19:00 PM	0.1	0.000	
2:20:00 PM	0.1	0.000	
2:21:00 PM	0.1	0.000	
2:22:00 PM	0.1	0.000	
2:23:00 PM	0.1	0.000	
2:24:00 PM	0.1	0.000	
2:25:00 PM	0.1	0.001	
2:26:00 PM	0.1	0.000	
2:27:00 PM	0.1	0.001	
2:28:00 PM	0.1	0.001	
2:29:00 PM	0.1	0.001	
2:30:00 PM	0.1	0.000	
2:31:00 PM	0.1	0.008	
2:32:00 PM	0.1	0.003	
2:33:00 PM	0.1	0.000	
2:34:00 PM	0.1	0.018	
2:35:00 PM	0.1	0.001	
2:36:00 PM	0.1	0.010	
2:37:00 PM	0.1	0.000	

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:29:00 AM	0.0		0.000
9:30:00 AM	0.0		0.000
9:31:00 AM	0.0	0.032	0.000
9:32:00 AM	0.0	0.008	0.000
9:33:00 AM	0.0	0.005	0.000
9:34:00 AM	0.0	0.006	0.000
9:35:00 AM	0.0	0.006	0.000
9:36:00 AM	0.0	0.006	0.000
9:37:00 AM	0.0	0.006	0.000
9:38:00 AM	0.0	0.006	0.000
9:39:00 AM	0.0	0.006	0.000
9:40:00 AM	0.0	0.006	0.000
9:41:00 AM	0.0	0.005	0.000
9:42:00 AM	0.0	0.006	0.000
9:43:00 AM	0.0	0.005	0.000
9:44:00 AM	0.0	0.006	0.000
9:45:00 AM	0.0	0.006	0.000
9:46:00 AM	0.0	0.006	0.000
9:47:00 AM	0.0	0.006	0.000
9:48:00 AM	0.0	0.006	0.000
9:49:00 AM	0.0	0.005	0.000
9:50:00 AM	0.0	0.006	0.000
9:51:00 AM	0.0	0.007	0.000
9:52:00 AM	0.0	0.008	0.000
9:53:00 AM	0.0	0.010	0.000
9:54:00 AM	0.0	0.009	0.000
9:55:00 AM	0.0	0.009	0.000
9:56:00 AM	0.0	0.009	0.000
9:57:00 AM	0.0	0.006	0.000
9:58:00 AM	0.0	0.006	0.000
9:59:00 AM	0.0	0.007	0.000
10:00:00 AM	0.0	0.007	0.000
10:01:00 AM	0.0	0.007	0.000
10:02:00 AM	0.0	0.006	0.000
10:03:00 AM	0.0	0.006	0.000
10:04:00 AM	0.0	0.005	0.000
10:05:00 AM	0.0	0.006	0.000
10:06:00 AM	0.0	0.006	0.000
10:07:00 AM	0.0	0.006	0.000
10:08:00 AM	0.0	0.007	0.000
10:09:00 AM	0.0	0.005	0.000
10:10:00 AM	0.0	0.005	0.000
10:11:00 AM	0.0	0.005	0.000
10:12:00 AM	0.0	0.006	0.000
10:13:00 AM	0.0	0.006	0.000
10:14:00 AM	0.0	0.005	0.000
10:15:00 AM	0.0	0.005	0.000
10:16:00 AM	0.0	0.005	0.000
10:17:00 AM	0.0	0.005	0.000
10:18:00 AM	0.0	0.005	0.000
10:19:00 AM	0.0	0.005	0.000
10:20:00 AM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:21:00 AM	0.0	0.006	0.000
10:22:00 AM	0.0	0.006	0.000
10:23:00 AM	0.0	0.006	0.000
10:24:00 AM	0.0	0.006	0.000
10:25:00 AM	0.0	0.006	0.000
10:26:00 AM	0.0	0.007	0.000
10:27:00 AM	0.0	0.009	0.000
10:28:00 AM	0.0	0.006	0.000
10:29:00 AM	0.0	0.007	0.000
10:30:00 AM	0.0	0.006	0.000
10:31:00 AM	0.0	0.006	0.000
10:32:00 AM	0.0	0.006	0.000
10:33:00 AM	0.0	0.006	0.000
10:34:00 AM	0.0	0.008	0.000
10:35:00 AM	0.0	0.006	0.000
10:36:00 AM	0.0	0.005	0.000
10:37:00 AM	0.0	0.005	0.000
10:38:00 AM	0.0	0.006	0.000
10:39:00 AM	0.0	0.013	0.000
10:40:00 AM	0.0	0.006	0.000
10:41:00 AM	0.0	0.005	0.000
10:42:00 AM	0.0	0.005	0.000
10:43:00 AM	0.0	0.005	0.000
10:44:00 AM	0.0	0.005	0.000
10:45:00 AM	0.0	0.005	0.000
10:46:00 AM	0.0	0.005	0.000
10:47:00 AM	0.0	0.005	0.000
10:48:00 AM	0.0	0.005	0.000
10:49:00 AM	0.0	0.005	0.000
10:50:00 AM	0.0	0.005	0.000
10:51:00 AM	0.0	0.009	0.000
10:52:00 AM	0.0	0.004	0.000
10:53:00 AM	0.0	0.005	0.000
10:54:00 AM	0.0	0.005	0.000
10:55:00 AM	0.0	0.005	0.000
10:56:00 AM	0.0	0.005	0.000
10:57:00 AM	0.0	0.004	0.000
10:58:00 AM	0.0	0.004	0.000
10:59:00 AM	0.0	0.004	0.000
11:00:00 AM	0.0	0.003	0.000
11:01:00 AM	0.0	0.003	0.000
11:02:00 AM	0.0	0.004	0.000
11:03:00 AM	0.0	0.004	0.000
11:04:00 AM	0.0	0.004	0.000
11:05:00 AM	0.0	0.003	0.000
11:06:00 AM	0.0	0.004	0.000
11:07:00 AM	0.0	0.004	0.000
11:08:00 AM	0.0	0.008	0.000
11:09:00 AM	0.0	0.006	0.000
11:10:00 AM	0.0	0.004	0.000
11:11:00 AM	0.1	0.004	0.000
11:12:00 AM	0.1	0.005	0.000
11:13:00 AM	0.1	0.004	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:14:00 AM	0.1	0.004	0.000
11:15:00 AM	0.1	0.003	0.000
11:16:00 AM	0.1	0.003	0.000
11:17:00 AM	0.1	0.003	0.000
11:18:00 AM	0.1	0.004	0.000
11:19:00 AM	0.1	0.004	0.000
11:20:00 AM	0.1	0.004	0.000
11:21:00 AM	0.1	0.004	0.000
11:22:00 AM	0.1	0.004	0.000
11:23:00 AM	0.1	0.004	0.000
11:24:00 AM	0.1	0.004	0.000
11:25:00 AM	0.1	0.005	0.000
11:26:00 AM	0.1	0.005	0.000
11:27:00 AM	0.1	0.003	0.000
11:28:00 AM	0.1	0.003	0.000
11:29:00 AM	0.1	0.003	0.000
11:30:00 AM	0.1	0.004	0.000
11:31:00 AM	0.1	0.023	0.000
11:32:00 AM	0.1	0.004	0.000
11:33:00 AM	0.1	0.004	0.000
11:34:00 AM	0.1	0.003	0.000
11:35:00 AM	0.1	0.004	0.000
11:36:00 AM	0.1	0.004	0.000
11:37:00 AM	0.1	0.004	0.000
11:38:00 AM	0.1	0.004	0.000
11:39:00 AM	0.1	0.004	0.000
11:40:00 AM	0.1	0.004	0.000
11:41:00 AM	0.1	0.004	0.000
11:42:00 AM	0.1	0.004	0.000
11:43:00 AM	0.1	0.003	0.000
11:44:00 AM	0.1	0.003	0.000
11:45:00 AM	0.2	0.004	0.000
11:46:00 AM	0.2	0.003	0.000
11:47:00 AM	0.2	0.003	0.000
11:48:00 AM	0.2	0.003	0.000
11:49:00 AM	0.2	0.004	0.000
11:50:00 AM	0.2	0.003	0.000
11:51:00 AM	0.2	0.004	0.000
11:52:00 AM	0.2	0.004	0.000
11:53:00 AM	0.2	0.003	0.000
11:54:00 AM	0.2	0.003	0.000
11:55:00 AM	0.2	0.003	0.000
11:56:00 AM	0.2	0.003	0.000
11:57:00 AM	0.2	0.003	0.000
11:58:00 AM	0.2	0.003	0.000
11:59:00 AM	0.2	0.003	0.000
12:00:00 PM	0.2	0.003	0.000
12:01:00 PM	0.2	0.004	0.000
12:02:00 PM	0.2	0.004	0.000
12:03:00 PM	0.2	0.005	0.000
12:04:00 PM	0.2	0.004	0.000
12:05:00 PM	0.2	0.003	0.000
12:06:00 PM	0.2	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:07:00 PM	0.2	0.003	0.000
12:08:00 PM	0.2	0.003	0.000
12:09:00 PM	0.2	0.003	0.000
12:10:00 PM	0.2	0.006	0.000
12:11:00 PM	0.2	0.004	0.000
12:12:00 PM	0.2	0.004	0.000
12:13:00 PM	0.2	0.004	0.000
12:14:00 PM	0.2	0.004	0.000
12:15:00 PM	0.2	0.004	0.000
12:16:00 PM	0.2	0.004	0.000
12:17:00 PM	0.2	0.004	0.000
12:18:00 PM	0.3	0.004	0.000
12:19:00 PM	0.2	0.004	0.000
12:20:00 PM	0.3	0.004	0.000
12:21:00 PM	0.3	0.004	0.000
12:22:00 PM	0.3	0.003	0.000
12:23:00 PM	0.3	0.004	0.000
12:24:00 PM	0.3	0.004	0.000
12:25:00 PM	0.3	0.006	0.000
12:26:00 PM	0.3	0.004	0.000
12:27:00 PM	0.3	0.004	0.000
12:28:00 PM	0.3	0.004	0.000
12:29:00 PM	0.3	0.005	0.000
12:30:00 PM	0.3	0.005	0.000
12:31:00 PM	0.3	0.005	0.000
12:32:00 PM	0.3	0.005	0.000
12:33:00 PM	0.3	0.006	0.000
12:34:00 PM	0.3	0.006	0.000
12:35:00 PM	0.3	0.005	0.000
12:36:00 PM	0.3	0.006	0.000
12:37:00 PM	0.3	0.006	0.000
12:38:00 PM	0.3	0.005	0.000
12:39:00 PM	0.3	0.006	0.000
12:40:00 PM	0.3	0.006	0.000
12:41:00 PM	0.3	0.006	0.000
12:42:00 PM	0.3	0.007	0.000
12:43:00 PM	0.3	0.006	0.000
12:44:00 PM	0.3	0.006	0.000
12:45:00 PM	0.3	0.009	0.000
12:46:00 PM	0.3	0.032	0.000
12:47:00 PM	0.3	0.006	0.000
12:48:00 PM	0.3	0.007	0.000
12:49:00 PM	0.3	0.008	0.000
12:50:00 PM	0.3	0.008	0.000
12:51:00 PM	0.3	0.014	0.000
12:52:00 PM	0.3	0.007	0.000
12:53:00 PM	0.3	0.009	0.000
12:54:00 PM	0.3	0.008	0.000
12:55:00 PM	0.3	0.008	0.000
12:56:00 PM	0.3	0.008	0.000
12:57:00 PM	0.3	0.008	0.000
12:58:00 PM	0.3	0.008	0.000
12:59:00 PM	0.3	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:00:00 PM	0.3	0.008	0.000
1:01:00 PM	0.3	0.009	0.000
1:02:00 PM	0.3	0.009	0.000
1:03:00 PM	0.3	0.010	0.000
1:04:00 PM	0.3	0.009	0.000
1:05:00 PM	0.3	0.009	0.000
1:06:00 PM	0.3	0.009	0.000
1:07:00 PM	0.3	0.010	0.000
1:08:00 PM	0.3	0.009	0.000
1:09:00 PM	0.3	0.009	0.000
1:10:00 PM	0.3	0.009	0.000
1:11:00 PM	0.3	0.009	0.000
1:12:00 PM	0.3	0.009	0.000
1:13:00 PM	0.3	0.009	0.000
1:14:00 PM	0.3	0.009	0.000
1:15:00 PM	0.3	0.008	0.000
1:16:00 PM	0.3	0.010	0.000
1:17:00 PM	0.3	0.007	0.000
1:18:00 PM	0.3	0.007	0.000
1:19:00 PM	0.3	0.011	0.000
1:20:00 PM	0.3	0.006	0.000
1:21:00 PM	0.3	0.006	0.000
1:22:00 PM	0.3	0.006	0.000
1:23:00 PM	0.3	0.006	0.000
1:24:00 PM	0.3	0.007	0.000
1:25:00 PM	0.3	0.007	0.000
1:26:00 PM	0.3	0.007	0.000
1:27:00 PM	0.3	0.008	0.000
1:28:00 PM	0.3	0.006	0.000
1:29:00 PM	0.3	0.007	0.000
1:30:00 PM	0.3	0.007	0.000
1:31:00 PM	0.3	0.007	0.000
1:32:00 PM	0.3	0.008	0.000
1:33:00 PM	0.3	0.007	0.000
1:34:00 PM	0.3	0.008	0.000
1:35:00 PM	0.3	0.007	0.000
1:36:00 PM	0.3	0.007	0.000
1:37:00 PM	0.3	0.007	0.000
1:38:00 PM	0.3	0.008	0.000
1:39:00 PM	0.3	0.007	0.000
1:40:00 PM	0.3	0.008	0.000
1:41:00 PM	0.3	0.007	0.000
1:42:00 PM	0.3	0.008	0.000
1:43:00 PM	0.3	0.008	0.000
1:44:00 PM	0.3	0.007	0.000
1:45:00 PM	0.3	0.008	0.000
1:46:00 PM	0.3	0.009	0.000
1:47:00 PM	0.3	0.008	0.000
1:48:00 PM	0.3	0.007	0.000
1:49:00 PM	0.3	0.007	0.000
1:50:00 PM	0.3	0.007	0.000
1:51:00 PM	0.3	0.007	0.000
1:52:00 PM	0.3	0.007	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 7, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:53:00 PM	0.3	0.007	0.000
1:54:00 PM	0.3	0.01	0.000
1:55:00 PM	0.3	0.008	0.000
1:56:00 PM	0.3	0.008	0.000
1:57:00 PM	0.3	0.009	0.000
1:58:00 PM	0.3	0.01	0.000
1:59:00 PM	0.3	0.008	0.000
2:00:00 PM	0.3	0.008	0.000
2:01:00 PM	0.3	0.008	0.000
2:02:00 PM	0.3	0.009	0.000
2:03:00 PM	0.3	0.008	0.000
2:04:00 PM	0.3	0.015	0.000
2:05:00 PM	0.3	0.01	0.000
2:06:00 PM	0.3	0.009	0.000
2:07:00 PM	0.3	0.007	0.000
2:08:00 PM	0.3	0.007	0.000
2:09:00 PM	0.3	0.007	0.000
2:10:00 PM	0.3	0.007	0.000
2:11:00 PM	0.3	0.007	0.000
2:12:00 PM	0.3	0.009	0.000
2:13:00 PM	0.3	0.008	0.000
2:14:00 PM	0.3	0.008	0.000
2:15:00 PM	0.3	0.012	0.000
2:16:00 PM	0.3	0.007	0.000
2:17:00 PM	0.3	0.007	0.000
2:18:00 PM	0.3	0.007	0.000
2:19:00 PM	0.3	0.009	0.000
2:20:00 PM	0.3	0.007	0.000
2:21:00 PM	0.3	0.011	0.000
2:22:00 PM	0.3	0.007	0.000
2:23:00 PM	0.3	0.008	0.000
2:24:00 PM	0.3	0.009	0.000
2:25:00 PM	0.3	0.009	0.000
2:26:00 PM	0.3	0.009	0.000
2:27:00 PM	0.3	0.008	0.000
2:28:00 PM	0.3	0.017	0.000
2:29:00 PM	0.3	0.009	0.000
2:30:00 PM	0.3	0.008	0.000
2:31:00 PM	0.3	0.008	0.000
2:32:00 PM	0.3	0.009	0.000
2:33:00 PM	0.3	0.009	0.000
2:34:00 PM	0.3	0.008	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From NW ~ 13 mph	Date:	4/8/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00 am. Aarco loading out last remaining soils from stockpile and scraping the area under the stockpile and placing all soils into a roll off for transport and disposal at clean earth Carteret. Aarco continues to backfill and compact the excavation area with sand and stone. Preferred conducted continuous monitoring for particulates, total volatile organic compounds, mercury at monitoring locations upwind, downwind and proximate to the active work zone. In addition, three locations along the perimeter of the site were sampled but not submitted for documentation sampling.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	0.0	0.020	0.000	0.0	0.110	0.000
Down Wind	0.1	0.025	0.000	0.1	0.076	0.000
Work Zone	0.1	0.009	0.000	0.2	0.034	0.000

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Aarco will continue to backfill the excavation.



Aarco loading out soils for disposal.



Aarco scraping up soils under stockpile area.

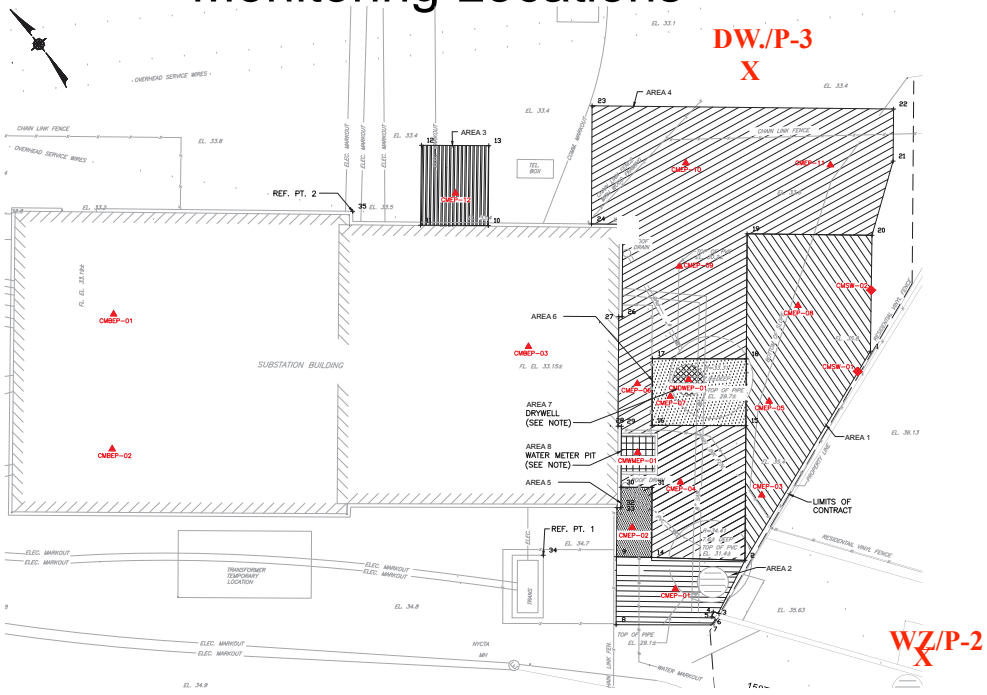


Aarco backfilling excavation area.



Aarco compacting all backfilled areas.

Monitoring Locations



LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:09:00 AM	0.0	0.0	0.000
9:10:00 AM	0.0	0.024	0.000
9:11:00 AM	0.0	0.024	0.000
9:12:00 AM	0.0	0.023	0.000
9:13:00 AM	0.0	0.021	0.000
9:14:00 AM	0.0	0.019	0.000
9:15:00 AM	0.0	0.023	0.000
9:16:00 AM	0.0	0.019	0.000
9:17:00 AM	0.0	0.019	0.000
9:18:00 AM	0.0	0.017	0.000
9:19:00 AM	0.0	0.015	0.000
9:20:00 AM	0.0	0.016	0.000
9:21:00 AM	0.0	0.017	0.000
9:22:00 AM	0.0	0.017	0.000
9:23:00 AM	0.0	0.017	0.000
9:24:00 AM	0.0	0.017	0.000
9:25:00 AM	0.0	0.016	0.000
9:26:00 AM	0.0	0.016	0.000
9:27:00 AM	0.0	0.016	0.000
9:28:00 AM	0.0	0.017	0.000
9:29:00 AM	0.0	0.016	0.000
9:30:00 AM	0.0	0.015	0.000
9:31:00 AM	0.0	0.015	0.000
9:32:00 AM	0.0	0.016	0.000
9:33:00 AM	0.0	0.016	0.000
9:34:00 AM	0.0	0.017	0.000
9:35:00 AM	0.0	0.017	0.000
9:36:00 AM	0.0	0.019	0.000
9:37:00 AM	0.0	0.020	0.000
9:38:00 AM	0.0	0.021	0.000
9:39:00 AM	0.0	0.021	0.000
9:40:00 AM	0.0	0.020	0.000
9:41:00 AM	0.0	0.020	0.000
9:42:00 AM	0.0	0.019	0.000
9:43:00 AM	0.0	0.018	0.000
9:44:00 AM	0.0	0.018	0.000
9:45:00 AM	0.0	0.018	0.000
9:46:00 AM	0.0	0.019	0.000
9:47:00 AM	0.0	0.018	0.000
9:48:00 AM	0.0	0.019	0.000
9:49:00 AM	0.0	0.018	0.000
9:50:00 AM	0.0	0.018	0.000
9:51:00 AM	0.0	0.018	0.000
9:52:00 AM	0.0	0.018	0.000
9:53:00 AM	0.0	0.019	0.000
9:54:00 AM	0.0	0.019	0.000
9:55:00 AM	0.0	0.019	0.000
9:56:00 AM	0.0	0.018	0.000
9:57:00 AM	0.0	0.019	0.000
9:58:00 AM	0.0	0.019	0.000
9:59:00 AM	0.0	0.019	0.000
10:00:00 AM	0.0	0.018	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:01:00 AM	0.0	0.018	0.000
10:02:00 AM	0.0	0.020	0.000
10:03:00 AM	0.0	0.019	0.000
10:04:00 AM	0.0	0.026	0.000
10:05:00 AM	0.0	0.024	0.000
10:06:00 AM	0.0	0.019	0.000
10:07:00 AM	0.0	0.020	0.000
10:08:00 AM	0.0	0.051	0.000
10:09:00 AM	0.0	0.035	0.000
10:10:00 AM	0.0	0.025	0.000
10:11:00 AM	0.0	0.028	0.000
10:12:00 AM	0.0	0.025	0.000
10:13:00 AM	0.0	0.021	0.000
10:14:00 AM	0.0	0.021	0.000
10:15:00 AM	0.0	0.048	0.000
10:16:00 AM	0.0	0.028	0.000
10:17:00 AM	0.0	0.026	0.000
10:18:00 AM	0.0	0.023	0.000
10:19:00 AM	0.0	0.018	0.000
10:20:00 AM	0.0	0.018	0.000
10:21:00 AM	0.0	0.019	0.000
10:22:00 AM	0.0	0.018	0.000
10:23:00 AM	0.0	0.018	0.000
10:24:00 AM	0.0	0.020	0.000
10:25:00 AM	0.0	0.019	0.000
10:26:00 AM	0.0	0.023	0.000
10:27:00 AM	0.0	0.036	0.000
10:28:00 AM	0.0	0.025	0.000
10:29:00 AM	0.0	0.029	0.000
10:30:00 AM	0.0	0.159	0.000
10:31:00 AM	0.0	0.019	0.000
10:32:00 AM	0.0	0.017	0.000
10:33:00 AM	0.0	0.019	0.000
10:34:00 AM	0.0	0.023	0.000
10:35:00 AM	0.0	0.042	0.000
10:36:00 AM	0.0	0.022	0.000
10:37:00 AM	0.0	0.019	0.000
10:38:00 AM	0.0	0.022	0.000
10:39:00 AM	0.0	0.035	0.000
10:40:00 AM	0.0	0.020	0.000
10:41:00 AM	0.0	0.021	0.000
10:42:00 AM	0.0	0.021	0.000
10:43:00 AM	0.0	0.020	0.000
10:44:00 AM	0.0	0.019	0.000
10:45:00 AM	0.0	0.018	0.000
10:46:00 AM	0.0	0.024	0.000
10:47:00 AM	0.0	0.011	0.000
10:48:00 AM	0.0	0.016	0.000
10:49:00 AM	0.0	0.012	0.000
10:50:00 AM	0.0		0.000
10:51:00 AM	0.0	0.016	0.000
10:52:00 AM	0.0	0.037	0.000
10:53:00 AM	0.0	0.019	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:54:00 AM	0.0	0.016	0.000
10:55:00 AM	0.0	0.021	0.000
10:56:00 AM	0.0	0.012	0.000
10:57:00 AM	0.0	0.014	0.000
10:58:00 AM	0.0	0.012	0.000
10:59:00 AM	0.0	0.014	0.000
11:00:00 AM	0.0	0.013	0.000
11:01:00 AM	0.0	0.011	0.000
11:02:00 AM	0.0	0.012	0.000
11:03:00 AM	0.0	0.011	0.000
11:04:00 AM	0.0	0.024	0.000
11:05:00 AM	0.0	0.021	0.000
11:06:00 AM	0.0	0.025	0.000
11:07:00 AM	0.0	0.032	0.000
11:08:00 AM	0.0	0.011	0.000
11:09:00 AM	0.0	0.011	0.000
11:10:00 AM	0.0	0.011	0.000
11:11:00 AM	0.0	0.032	0.000
11:12:00 AM	0.0	0.055	0.000
11:13:00 AM	0.0	0.053	0.000
11:14:00 AM	0.0	0.049	0.000
11:15:00 AM	0.0	0.012	0.000
11:16:00 AM	0.0	0.040	0.000
11:17:00 AM	0.0	0.057	0.000
11:18:00 AM	0.0	0.025	0.000
11:19:00 AM	0.0	0.137	0.000
11:20:00 AM	0.0	0.243	0.000
11:21:00 AM	0.0	0.462	0.000
11:22:00 AM	0.0	0.445	0.000
11:23:00 AM	0.0	0.015	0.000
11:24:00 AM	0.0	0.012	0.000
11:25:00 AM	0.0	0.011	0.000
11:26:00 AM	0.0	0.011	0.000
11:27:00 AM	0.0	0.011	0.000
11:28:00 AM	0.0	0.022	0.000
11:29:00 AM	0.0	0.012	0.000
11:30:00 AM	0.0	0.011	0.000
11:31:00 AM	0.0	0.013	0.000
11:32:00 AM	0.0	0.011	0.000
11:33:00 AM	0.0	0.012	0.000
11:34:00 AM	0.0	0.012	0.000
11:35:00 AM	0.0	0.012	0.000
11:36:00 AM	0.0	0.019	0.000
11:37:00 AM	0.0	0.012	0.000
11:38:00 AM	0.0	0.012	0.000
11:39:00 AM	0.0	0.014	0.000
11:40:00 AM	0.0	0.013	0.000
11:41:00 AM	0.0	0.013	0.000
11:42:00 AM	0.0	0.012	0.000
11:43:00 AM	0.0	0.011	0.000
11:44:00 AM	0.0	0.012	0.000
11:45:00 AM	0.0	0.012	0.000
11:46:00 AM	0.0	0.011	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:47:00 AM	0.0	0.013	0.000
11:48:00 AM	0.0	0.014	0.000
11:49:00 AM	0.0	0.011	0.000
11:50:00 AM	0.0	0.012	0.000
11:51:00 AM	0.0	0.012	0.000
11:52:00 AM	0.0	0.013	0.000
11:53:00 AM	0.0	0.023	0.000
11:54:00 AM	0.0	0.014	0.000
11:55:00 AM	0.0	0.013	0.000
11:56:00 AM	0.0	0.012	0.000
11:57:00 AM	0.0	0.012	0.000
11:58:00 AM	0.0	0.011	0.000
11:59:00 AM	0.0	0.012	0.000
12:00:00 PM	0.0	0.012	0.000
12:01:00 PM	0.1	0.013	0.000
12:02:00 PM	0.0	0.012	0.000
12:03:00 PM	0.0	0.012	0.000
12:04:00 PM	0.0	0.012	0.000
12:05:00 PM	0.0	0.012	0.000
12:06:00 PM	0.0	0.011	0.000
12:07:00 PM	0.0	0.011	0.000
12:08:00 PM	0.0	0.011	0.000
12:09:00 PM	0.0	0.014	0.000
12:10:00 PM	0.0	0.012	0.000
12:11:00 PM	0.0	0.011	0.000
12:12:00 PM	0.0	0.011	0.000
12:13:00 PM	0.0	0.010	0.000
12:14:00 PM	0.0	0.010	0.000
12:15:00 PM	0.0	0.010	0.000
12:16:00 PM	0.0	0.009	0.000
12:17:00 PM	0.0	0.009	0.000
12:18:00 PM	0.0	0.009	0.000
12:19:00 PM	0.0	0.009	0.000
12:20:00 PM	0.0	0.010	0.000
12:21:00 PM	0.0	0.009	0.000
12:22:00 PM	0.0	0.009	0.000
12:23:00 PM	0.0	0.009	0.000
12:24:00 PM	0.0	0.009	0.000
12:25:00 PM	0.0	0.014	0.000
12:26:00 PM	0.0	0.010	0.000
12:27:00 PM	0.0	0.010	0.000
12:28:00 PM	0.0	0.009	0.000
12:29:00 PM	0.0	0.009	0.000
12:30:00 PM	0.0	0.010	0.000
12:31:00 PM	0.0	0.009	0.000
12:32:00 PM	0.0	0.009	0.000
12:33:00 PM	0.0	0.012	0.000
12:34:00 PM	0.0	0.011	0.000
12:35:00 PM	0.0	0.010	0.000
12:36:00 PM	0.0	0.010	0.000
12:37:00 PM	0.0	0.009	0.000
12:38:00 PM	0.0	0.009	0.000
12:39:00 PM	0.0	0.009	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:40:00 PM	0.0	0.008	0.000
12:41:00 PM	0.0	0.008	0.000
12:42:00 PM	0.0	0.008	0.000
12:43:00 PM	0.0	0.008	0.000
12:44:00 PM	0.0	0.008	0.000
12:45:00 PM	0.0	0.008	0.000
12:46:00 PM	0.0	0.007	0.000
12:47:00 PM	0.0	0.008	0.000
12:48:00 PM	0.0	0.007	0.000
12:49:00 PM	0.0	0.008	0.000
12:50:00 PM	0.0	0.007	0.000
12:51:00 PM	0.0	0.008	0.000
12:52:00 PM	0.0	0.011	0.000
12:53:00 PM	0.0	0.008	0.000
12:54:00 PM	0.0	0.007	0.000
12:55:00 PM	0.0	0.008	0.000
12:56:00 PM	0.0	0.007	0.000
12:57:00 PM	0.0	0.007	0.000
12:58:00 PM	0.0	0.007	0.000
12:59:00 PM	0.0	0.007	0.000
1:00:00 PM	0.0	0.006	0.000
1:01:00 PM	0.0	0.008	0.000
1:02:00 PM	0.0	0.008	0.000
1:03:00 PM	0.0	0.010	0.000
1:04:00 PM	0.0	0.009	0.000
1:05:00 PM	0.0	0.012	0.000
1:06:00 PM	0.0	0.007	0.000
1:07:00 PM	0.0	0.007	0.000
1:08:00 PM	0.0	0.008	0.000
1:09:00 PM	0.0	0.008	0.000
1:10:00 PM	0.0	0.009	0.000
1:11:00 PM	0.0	0.008	0.000
1:12:00 PM	0.0	0.008	0.000
1:13:00 PM	0.0	0.008	0.000
1:14:00 PM	0.0	0.008	0.000
1:15:00 PM	0.0	0.009	0.000
1:16:00 PM	0.0	0.009	0.000
1:17:00 PM	0.0	0.009	0.000
1:18:00 PM	0.0	0.009	0.000
1:19:00 PM	0.0	0.013	0.000
1:20:00 PM	0.0	0.010	0.000
1:21:00 PM	0.0	0.007	0.000
1:22:00 PM	0.0	0.007	0.000
1:23:00 PM	0.0	0.007	0.000
1:24:00 PM	0.0	0.006	0.000
1:25:00 PM	0.0	0.007	0.000
1:26:00 PM	0.0	0.008	0.000
1:27:00 PM	0.0	0.019	0.000
1:28:00 PM	0.0	0.008	0.000
1:29:00 PM	0.0	0.014	0.000
1:30:00 PM	0.0	0.008	0.000
1:31:00 PM	0.0	0.008	0.000
1:32:00 PM	0.0	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Upwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:33:00 PM	0.0	0.009	0.000
1:34:00 PM	0.0	0.024	0.000
1:35:00 PM	0.0	0.011	0.000
1:36:00 PM	0.0	0.008	0.000
1:37:00 PM	0.0	0.011	0.000
1:38:00 PM	0.0	0.008	0.000
1:39:00 PM	0.0	0.006	0.000
1:40:00 PM	0.0	0.005	0.000
1:41:00 PM	0.0	0.006	0.000
1:42:00 PM	0.0	0.005	0.000
1:43:00 PM	0.0	0.005	0.000
1:44:00 PM	0.0	0.005	0.000
1:45:00 PM	0.0	0.005	0.000
1:46:00 PM	0.0	0.005	0.000
1:47:00 PM	0.0	0.014	0.000
1:48:00 PM	0.0	0.005	0.000
1:49:00 PM	0.0	0.010	0.000
1:50:00 PM	0.0	0.004	0.000
1:51:00 PM	0.0	0.004	0.000
1:52:00 PM	0.0	0.005	0.000
1:53:00 PM	0.0	0.005	0.000
1:54:00 PM	0.0	0.005	0.000
1:55:00 PM	0.0	0.006	0.000
1:56:00 PM	0.0	0.005	0.000
1:57:00 PM	0.0	0.008	0.000
1:58:00 PM	0.0	0.014	0.000
1:59:00 PM	0.0	0.007	0.000
2:00:00 PM	0.0	0.006	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:15:00 AM	0.0	0.216	0.000
9:16:00 AM	0.0	0.021	0.000
9:17:00 AM	0.0	0.021	0.000
9:18:00 AM	0.0	0.018	0.000
9:19:00 AM	0.0	0.016	0.000
9:20:00 AM	0.0	0.016	0.000
9:21:00 AM	0.0	0.017	0.000
9:22:00 AM	0.0	0.017	0.000
9:23:00 AM	0.0	0.016	0.000
9:24:00 AM	0.0	0.015	0.000
9:25:00 AM	0.0	0.015	0.000
9:26:00 AM	0.0	0.015	0.000
9:27:00 AM	0.0	0.015	0.000
9:28:00 AM	0.0	0.014	0.000
9:29:00 AM	0.0	0.013	0.000
9:30:00 AM	0.0	0.013	0.000
9:31:00 AM	0.0	0.012	0.000
9:32:00 AM	0.0	0.013	0.000
9:33:00 AM	0.0	0.013	0.000
9:34:00 AM	0.0	0.013	0.000
9:35:00 AM	0.0	0.013	0.000
9:36:00 AM	0.0	0.014	0.000
9:37:00 AM	0.0	0.016	0.000
9:38:00 AM	0.0	0.016	0.000
9:39:00 AM	0.0	0.017	0.000
9:40:00 AM	0.0	0.017	0.000
9:41:00 AM	0.0	0.016	0.000
9:42:00 AM	0.0	0.015	0.000
9:43:00 AM	0.1	0.014	0.000
9:44:00 AM	0.1	0.013	0.000
9:45:00 AM	0.1	0.014	0.000
9:46:00 AM	0.1	0.014	0.000
9:47:00 AM	0.1	0.015	0.000
9:48:00 AM	0.1	0.015	0.000
9:49:00 AM	0.1	0.014	0.000
9:50:00 AM	0.1	0.014	0.000
9:51:00 AM	0.1	0.014	0.000
9:52:00 AM	0.1	0.015	0.000
9:53:00 AM	0.1	0.015	0.000
9:54:00 AM	0.1	0.015	0.000
9:55:00 AM	0.1	0.015	0.000
9:56:00 AM	0.1	0.014	0.000
9:57:00 AM	0.2	0.041	0.000
9:58:00 AM	0.1	0.036	0.000
9:59:00 AM	0.1	0.034	0.000
10:00:00 AM	0.1	0.015	0.000
10:01:00 AM	0.1	0.014	0.000
10:02:00 AM	0.1	0.014	0.000
10:03:00 AM	0.1	0.015	0.000
10:04:00 AM	0.1	0.016	0.000
10:05:00 AM	0.1	0.014	0.000
10:06:00 AM	0.1	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:07:00 AM	0.1	0.014	0.000
10:08:00 AM	0.1	0.039	0.000
10:09:00 AM	0.1	0.082	0.000
10:10:00 AM	0.1	0.033	0.000
10:11:00 AM	0.1	0.018	0.000
10:12:00 AM	0.1	0.025	0.000
10:13:00 AM	0.2	0.027	0.000
10:14:00 AM	0.2	0.099	0.000
10:15:00 AM	0.2	0.067	0.000
10:16:00 AM	0.1	0.030	0.000
10:17:00 AM	0.1	0.019	0.000
10:18:00 AM	0.1	0.015	0.000
10:19:00 AM	0.1	0.014	0.000
10:20:00 AM	0.1	0.013	0.000
10:21:00 AM	0.1	0.012	0.000
10:22:00 AM	0.1	0.013	0.000
10:23:00 AM	0.1	0.013	0.000
10:24:00 AM	0.1	0.013	0.000
10:25:00 AM	0.1	0.012	0.000
10:26:00 AM	0.1	0.012	0.000
10:27:00 AM	0.1	0.013	0.000
10:28:00 AM	0.1	0.013	0.000
10:29:00 AM	0.2	0.012	0.000
10:30:00 AM	0.1	0.011	0.000
10:31:00 AM	0.1	0.011	0.000
10:32:00 AM	0.1	0.011	0.000
10:33:00 AM	0.1	0.012	0.000
10:34:00 AM	0.2	0.013	0.000
10:35:00 AM	0.2	0.012	0.000
10:36:00 AM	0.2	0.011	0.000
10:37:00 AM	0.1	0.011	0.000
10:38:00 AM	0.2	0.011	0.000
10:39:00 AM	0.2	0.011	0.000
10:40:00 AM	0.2	0.011	0.000
10:41:00 AM	0.2	0.017	0.000
10:42:00 AM	0.2	0.016	0.000
10:43:00 AM	0.2	0.011	0.000
10:44:00 AM	0.2	0.011	0.000
10:45:00 AM	0.2	0.007	0.000
10:46:00 AM	0.2	0.005	0.000
10:47:00 AM	0.2	0.007	0.000
10:48:00 AM	0.2	0.005	0.000
10:49:00 AM	0.2	0.005	0.000
10:50:00 AM	0.1		0.000
10:51:00 AM	0.2	0.005	0.000
10:52:00 AM	0.2	0.005	0.000
10:53:00 AM	0.2	0.005	0.000
10:54:00 AM	0.1	0.004	0.000
10:55:00 AM	0.1	0.005	0.000
10:56:00 AM	0.1	0.005	0.000
10:57:00 AM	0.2	0.005	0.000
10:58:00 AM	0.1	0.005	0.000
10:59:00 AM	0.1	0.005	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:00:00 AM	0.1	0.005	0.000
11:01:00 AM	0.1	0.004	0.000
11:02:00 AM	0.2	0.004	0.000
11:03:00 AM	0.1	0.004	0.000
11:04:00 AM	0.1	0.004	0.000
11:05:00 AM	0.1	0.004	0.000
11:06:00 AM	0.1	0.004	0.000
11:07:00 AM	0.1	0.004	0.000
11:08:00 AM	0.1	0.004	0.000
11:09:00 AM	0.1	0.003	0.000
11:10:00 AM	0.1	0.003	0.000
11:11:00 AM	0.1	0.003	0.000
11:12:00 AM	0.1	0.008	0.000
11:13:00 AM	0.1	0.009	0.000
11:14:00 AM	0.1	0.005	0.000
11:15:00 AM	0.1	0.008	0.000
11:16:00 AM	0.1	0.014	0.000
11:17:00 AM	0.1	0.067	0.000
11:18:00 AM	0.1	0.058	0.000
11:19:00 AM	0.1	0.011	0.000
11:20:00 AM	0.1	0.004	0.000
11:21:00 AM	0.1	0.004	0.000
11:22:00 AM	0.1	0.046	0.000
11:23:00 AM	0.1	0.034	0.000
11:24:00 AM	0.1	0.103	0.000
11:25:00 AM	0.1	0.072	0.000
11:26:00 AM	0.1	0.012	0.000
11:27:00 AM	0.1	0.008	0.000
11:28:00 AM	0.1	0.005	0.000
11:29:00 AM	0.1	0.004	0.000
11:30:00 AM	0.1	0.003	0.000
11:31:00 AM	0.1	0.004	0.000
11:32:00 AM	0.1	0.003	0.000
11:33:00 AM	0.1	0.003	0.000
11:34:00 AM	0.1	0.003	0.000
11:35:00 AM	0.1	0.004	0.000
11:36:00 AM	0.1	0.003	0.000
11:37:00 AM	0.1	0.003	0.000
11:38:00 AM	0.1	0.003	0.000
11:39:00 AM	0.1	0.003	0.000
11:40:00 AM	0.1	0.003	0.000
11:41:00 AM	0.1	0.003	0.000
11:42:00 AM	0.1	0.003	0.000
11:43:00 AM	0.1	0.003	0.000
11:44:00 AM	0.1	0.004	0.000
11:45:00 AM	0.1	0.003	0.000
11:46:00 AM	0.1	0.003	0.000
11:47:00 AM	0.1	0.003	0.000
11:48:00 AM	0.1	0.004	0.000
11:49:00 AM	0.1	0.003	0.000
11:50:00 AM	0.1	0.004	0.000
11:51:00 AM	0.1	0.003	0.000
11:52:00 AM	0.1	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:53:00 AM	0.1	0.004	0.000
11:54:00 AM	0.1	0.004	0.000
11:55:00 AM	0.1	0.004	0.000
11:56:00 AM	0.1	0.003	0.000
11:57:00 AM	0.1	0.003	0.000
11:58:00 AM	0.1	0.003	0.000
11:59:00 AM	0.1	0.004	0.000
12:00:00 PM	0.1	0.004	0.000
12:01:00 PM	0.1	0.004	0.000
12:02:00 PM	0.1	0.003	0.000
12:03:00 PM	0.1	0.004	0.000
12:04:00 PM	0.1	0.003	0.000
12:05:00 PM	0.2	0.003	0.000
12:06:00 PM	0.1	0.003	0.000
12:07:00 PM	0.1	0.003	0.000
12:08:00 PM	0.1	0.003	0.000
12:09:00 PM	0.1	0.003	0.000
12:10:00 PM	0.1	0.003	0.000
12:11:00 PM	0.1	0.003	0.000
12:12:00 PM	0.1	0.002	0.000
12:13:00 PM	0.1	0.001	0.000
12:14:00 PM	0.1	0.001	0.000
12:15:00 PM	0.1	0.000	0.000
12:16:00 PM	0.1	0.000	0.000
12:17:00 PM	0.1	0.000	0.000
12:18:00 PM	0.0	0.000	0.000
12:19:00 PM	0.1	0.001	0.000
12:20:00 PM	0.1	0.002	0.000
12:21:00 PM	0.1	0.000	0.000
12:22:00 PM	0.1	0.000	0.000
12:23:00 PM	0.1	0.000	0.000
12:24:00 PM	0.0	0.000	0.000
12:25:00 PM	0.1	0.000	0.000
12:26:00 PM	0.1	0.002	0.000
12:27:00 PM	0.1	0.000	0.000
12:28:00 PM	0.1	0.000	0.000
12:29:00 PM	0.1	0.000	0.000
12:30:00 PM	0.1	0.000	0.000
12:31:00 PM	0.1	0.000	0.000
12:32:00 PM	0.1	0.001	0.000
12:33:00 PM	0.1	0.002	0.000
12:34:00 PM	0.1	0.001	0.000
12:35:00 PM	0.1	0.001	0.000
12:36:00 PM	0.1	0.001	0.000
12:37:00 PM	0.1	0.000	0.000
12:38:00 PM	0.1	0.001	0.000
12:39:00 PM	0.1	0.000	0.000
12:40:00 PM	0.1	0.000	0.000
12:41:00 PM	0.1	0.000	0.000
12:42:00 PM	0.1	0.000	0.000
12:43:00 PM	0.1	0.000	0.000
12:44:00 PM	0.1	0.000	0.000
12:45:00 PM	0.1	0.000	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:46:00 PM	0.1	0.000	0.000
12:47:00 PM	0.1	0.000	0.000
12:48:00 PM	0.1	0.000	0.000
12:49:00 PM	0.1	0.000	0.000
12:50:00 PM	0.1	0.000	0.000
12:51:00 PM	0.1	0.000	0.000
12:52:00 PM	0.1	0.000	0.000
12:53:00 PM	0.1	0.000	0.000
12:54:00 PM	0.1	0.002	0.000
12:55:00 PM	0.1	0.000	0.000
12:56:00 PM	0.1	0.000	0.000
12:57:00 PM	0.1	0.000	0.000
12:58:00 PM	0.1	0.000	0.000
12:59:00 PM	0.1	0.000	0.000
1:00:00 PM	0.1	0.000	0.000
1:01:00 PM	0.0	0.000	0.000
1:02:00 PM	0.0	0.000	0.000
1:03:00 PM	0.0	0.000	0.000
1:04:00 PM	0.0	0.000	0.000
1:05:00 PM	0.0	0.000	0.000
1:06:00 PM	0.0	0.000	0.000
1:07:00 PM	0.0	0.000	0.000
1:08:00 PM	0.0	0.000	0.000
1:09:00 PM	0.1	0.000	0.000
1:10:00 PM	0.0	0.000	0.000
1:11:00 PM	0.1	0.000	0.000
1:12:00 PM	0.1	0.000	0.000
1:13:00 PM	0.0	0.000	0.000
1:14:00 PM	0.0	0.000	0.000
1:15:00 PM	0.0	0.000	0.000
1:16:00 PM	0.0	0.000	0.000
1:17:00 PM	0.0	0.000	0.000
1:18:00 PM	0.1	0.000	0.000
1:19:00 PM	0.0	0.000	0.000
1:20:00 PM	0.0	0.000	0.000
1:21:00 PM	0.0	0.000	0.000
1:22:00 PM	0.1	0.000	0.000
1:23:00 PM	0.0	0.000	0.000
1:24:00 PM	0.1	0.000	0.000
1:25:00 PM	0.1	-0.001	0.000
1:26:00 PM	0.1	0.000	0.000
1:27:00 PM	0.0	0.000	0.000
1:28:00 PM	0.0	0.145	0.000
1:29:00 PM	0.0	0.004	0.000
1:30:00 PM	0.1	0.001	0.000
1:31:00 PM	0.0	0.001	0.000
1:32:00 PM	0.0	0.000	0.000
1:33:00 PM	0.0	0.005	0.000
1:34:00 PM	0.0	0.000	0.000
1:35:00 PM	0.0	0.000	0.000
1:36:00 PM	0.0	0.000	0.000
1:37:00 PM	0.0	-0.001	0.000
1:38:00 PM	0.0	-0.001	0.000

LIRR Group D Substations
Cedar Manor Substation
Work Zone
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:39:00 PM	0.0	-0.001	0.000
1:40:00 PM	0.0	-0.001	0.000
1:41:00 PM	0.1	-0.001	0.000
1:42:00 PM	0.1	-0.002	0.000
1:43:00 PM	0.1	-0.002	0.000
1:44:00 PM	0.1	-0.002	0.000
1:45:00 PM	0.1	-0.002	0.000
1:46:00 PM	0.1	-0.002	0.000
1:47:00 PM	0.1	-0.002	0.000
1:48:00 PM	0.1	-0.003	0.000
1:49:00 PM	0.1	-0.002	0.000
1:50:00 PM	0.1	-0.003	0.000
1:51:00 PM	0.1	-0.002	0.000
1:52:00 PM	0.1	-0.002	0.000
1:53:00 PM	0.1	-0.002	0.000
1:54:00 PM	0.1	-0.002	0.000
1:55:00 PM	0.1	-0.002	0.000
1:56:00 PM	0.1	-0.002	0.000
1:57:00 PM	0.1	-0.002	0.000
1:58:00 PM	0.1	-0.002	0.000
1:59:00 PM	0.1	-0.002	0.000
2:00:00 PM	0.0	-0.001	0.000
2:01:00 PM	0.0	-0.001	0.000
2:02:00 PM	0.0	-0.002	0.000
2:03:00 PM	0.0	-0.002	0.000
2:04:00 PM	0.0	-0.002	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
9:22:00 AM	0.0	0.040	0.000
9:23:00 AM	0.0	0.024	0.000
9:24:00 AM	0.0	0.023	0.000
9:25:00 AM	0.0	0.023	0.000
9:26:00 AM	0.0	0.023	0.000
9:27:00 AM	0.0	0.022	0.000
9:28:00 AM	0.0	0.021	0.000
9:29:00 AM	0.0	0.022	0.000
9:30:00 AM	0.0	0.021	0.000
9:31:00 AM	0.0	0.021	0.000
9:32:00 AM	0.0	0.021	0.000
9:33:00 AM	0.0	0.022	0.000
9:34:00 AM	0.0	0.024	0.000
9:35:00 AM	0.0	0.024	0.000
9:36:00 AM	0.0	0.026	0.000
9:37:00 AM	0.0	0.030	0.000
9:38:00 AM	0.0	0.029	0.000
9:39:00 AM	0.0	0.030	0.000
9:40:00 AM	0.0	0.029	0.000
9:41:00 AM	0.0	0.028	0.000
9:42:00 AM	0.0	0.028	0.000
9:43:00 AM	0.0	0.026	0.000
9:44:00 AM	0.0	0.026	0.000
9:45:00 AM	0.0	0.026	0.000
9:46:00 AM	0.0	0.025	0.000
9:47:00 AM	0.0	0.028	0.000
9:48:00 AM	0.0	0.027	0.000
9:49:00 AM	0.0	0.027	0.000
9:50:00 AM	0.0	0.027	0.000
9:51:00 AM	0.0	0.026	0.000
9:52:00 AM	0.0	0.027	0.000
9:53:00 AM	0.0	0.027	0.000
9:54:00 AM	0.0	0.026	0.000
9:55:00 AM	0.0	0.026	0.000
9:56:00 AM	0.0	0.026	0.000
9:57:00 AM	0.0	0.026	0.000
9:58:00 AM	0.0	0.029	0.000
9:59:00 AM	0.0	0.026	0.000
10:00:00 AM	0.0	0.026	0.000
10:01:00 AM	0.0	0.026	0.000
10:02:00 AM	0.0	0.026	0.000
10:03:00 AM	0.0	0.026	0.000
10:04:00 AM	0.0	0.027	0.000
10:05:00 AM	0.0	0.026	0.000
10:06:00 AM	0.0	0.026	0.000
10:07:00 AM	0.0	0.027	0.000
10:08:00 AM	0.0	0.028	0.000
10:09:00 AM	0.0	0.055	0.000
10:10:00 AM	0.0	0.066	0.000
10:11:00 AM	0.0	0.027	0.000
10:12:00 AM	0.0	0.028	0.000
10:13:00 AM	0.0	0.029	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
10:14:00 AM	0.0	0.031	0.000
10:15:00 AM	0.0	0.029	0.000
10:16:00 AM	0.0	0.027	0.000
10:17:00 AM	0.0	0.030	0.000
10:18:00 AM	0.0	0.153	0.000
10:19:00 AM	0.0	0.057	0.000
10:20:00 AM	0.0	0.045	0.000
10:21:00 AM	0.0	0.025	0.000
10:22:00 AM	0.0	0.023	0.000
10:23:00 AM	0.0	0.023	0.000
10:24:00 AM	0.0	0.023	0.000
10:25:00 AM	0.0	0.023	0.000
10:26:00 AM	0.0	0.023	0.000
10:27:00 AM	0.0	0.024	0.000
10:28:00 AM	0.0	0.024	0.000
10:29:00 AM	0.0	0.024	0.000
10:30:00 AM	0.0	0.023	0.000
10:31:00 AM	0.0	0.023	0.000
10:32:00 AM	0.0	0.023	0.000
10:33:00 AM	0.0	0.038	0.000
10:34:00 AM	0.0	0.024	0.000
10:35:00 AM	0.0	0.023	0.000
10:36:00 AM	0.0	0.023	0.000
10:37:00 AM	0.0	0.083	0.000
10:38:00 AM	0.0	0.022	0.000
10:39:00 AM	0.0	0.028	0.000
10:40:00 AM	0.0	0.023	0.000
10:41:00 AM	0.0	0.022	0.000
10:42:00 AM	0.0	0.026	0.000
10:43:00 AM	0.0	0.022	0.000
10:44:00 AM	0.0	0.020	0.000
10:45:00 AM	0.0	0.017	0.000
10:46:00 AM	0.0	0.025	0.000
10:47:00 AM	0.0	0.180	0.000
10:48:00 AM	0.0	0.017	0.000
10:49:00 AM	0.0	0.014	0.000
10:50:00 AM	0.0		0.000
10:51:00 AM	0.0	0.015	0.000
10:52:00 AM	0.0	0.015	0.000
10:53:00 AM	0.0	0.018	0.000
10:54:00 AM	0.0	0.013	0.000
10:55:00 AM	0.0	0.037	0.000
10:56:00 AM	0.0	0.048	0.000
10:57:00 AM	0.0	0.049	0.000
10:58:00 AM	0.0	0.014	0.000
10:59:00 AM	0.0	0.014	0.000
11:00:00 AM	0.0	0.014	0.000
11:01:00 AM	0.0	0.013	0.000
11:02:00 AM	0.0	0.014	0.000
11:03:00 AM	0.0	0.014	0.000
11:04:00 AM	0.0	0.027	0.000
11:05:00 AM	0.0	0.040	0.000
11:06:00 AM	0.0	0.021	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
11:07:00 AM	0.0	0.031	0.000
11:08:00 AM	0.0	0.056	0.000
11:09:00 AM	0.0	0.021	0.000
11:10:00 AM	0.0	0.031	0.000
11:11:00 AM	0.0	0.016	0.000
11:12:00 AM	0.0	0.013	0.000
11:13:00 AM	0.0	0.020	0.000
11:14:00 AM	0.0	0.025	0.000
11:15:00 AM	0.0	0.022	0.000
11:16:00 AM	0.0	0.037	0.000
11:17:00 AM	0.1	0.042	0.000
11:18:00 AM	0.1	0.044	0.000
11:19:00 AM	0.1	0.030	0.000
11:20:00 AM	0.1	0.019	0.000
11:21:00 AM	0.1	0.022	0.000
11:22:00 AM	0.1	0.154	0.000
11:23:00 AM	0.1	0.064	0.000
11:24:00 AM	0.1	0.074	0.000
11:25:00 AM	0.1	0.067	0.000
11:26:00 AM	0.1	0.019	0.000
11:27:00 AM	0.1	0.015	0.000
11:28:00 AM	0.1	0.044	0.000
11:29:00 AM	0.1	0.024	0.000
11:30:00 AM	0.1	0.022	0.000
11:31:00 AM	0.0	0.020	0.000
11:32:00 AM	0.1	0.027	0.000
11:33:00 AM	0.1	0.092	0.000
11:34:00 AM	0.1	0.089	0.000
11:35:00 AM	0.1	0.058	0.000
11:36:00 AM	0.1	0.022	0.000
11:37:00 AM	0.1	0.106	0.000
11:38:00 AM	0.2	0.180	0.000
11:39:00 AM	0.1	0.106	0.000
11:40:00 AM	0.2	0.050	0.000
11:41:00 AM	0.3	0.093	0.000
11:42:00 AM	0.4	0.106	0.000
11:43:00 AM	0.3	0.099	0.000
11:44:00 AM	0.1	0.064	0.000
11:45:00 AM	0.1	0.013	0.000
11:46:00 AM	0.1	0.013	0.000
11:47:00 AM	0.1	0.013	0.000
11:48:00 AM	0.1	0.014	0.000
11:49:00 AM	0.1	0.013	0.000
11:50:00 AM	0.1	0.013	0.000
11:51:00 AM	0.1	0.013	0.000
11:52:00 AM	0.1	0.013	0.000
11:53:00 AM	0.1	0.014	0.000
11:54:00 AM	0.1	0.014	0.000
11:55:00 AM	0.1	0.014	0.000
11:56:00 AM	0.1	0.014	0.000
11:57:00 AM	0.1	0.013	0.000
11:58:00 AM	0.1	0.013	0.000
11:59:00 AM	0.1	0.014	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:00:00 PM	0.1	0.014	0.000
12:01:00 PM	0.1	0.014	0.000
12:02:00 PM	0.1	0.014	0.000
12:03:00 PM	0.1	0.014	0.000
12:04:00 PM	0.1	0.014	0.000
12:05:00 PM	0.1	0.014	0.000
12:06:00 PM	0.1	0.013	0.000
12:07:00 PM	0.1	0.014	0.000
12:08:00 PM	0.1	0.013	0.000
12:09:00 PM	0.1	0.013	0.000
12:10:00 PM	0.1	0.013	0.000
12:11:00 PM	0.1	0.013	0.000
12:12:00 PM	0.1	0.011	0.000
12:13:00 PM	0.1	0.011	0.000
12:14:00 PM	0.1	0.009	0.000
12:15:00 PM	0.1	0.009	0.000
12:16:00 PM	0.1	0.009	0.000
12:17:00 PM	0.1	0.009	0.000
12:18:00 PM	0.1	0.010	0.000
12:19:00 PM	0.1	0.010	0.000
12:20:00 PM	0.1	0.017	0.000
12:21:00 PM	0.1	0.009	0.000
12:22:00 PM	0.1	0.009	0.000
12:23:00 PM	0.1	0.009	0.000
12:24:00 PM	0.1	0.009	0.000
12:25:00 PM	0.1	0.012	0.000
12:26:00 PM	0.1	0.014	0.000
12:27:00 PM	0.1	0.009	0.000
12:28:00 PM	0.1	0.009	0.000
12:29:00 PM	0.1	0.009	0.000
12:30:00 PM	0.1	0.010	0.000
12:31:00 PM	0.1	0.009	0.000
12:32:00 PM	0.1	0.009	0.000
12:33:00 PM	0.1	0.011	0.000
12:34:00 PM	0.1	0.011	0.000
12:35:00 PM	0.1	0.011	0.000
12:36:00 PM	0.1	0.011	0.000
12:37:00 PM	0.1	0.012	0.000
12:38:00 PM	0.1	0.009	0.000
12:39:00 PM	0.1	0.009	0.000
12:40:00 PM	0.1	0.008	0.000
12:41:00 PM	0.1	0.008	0.000
12:42:00 PM	0.1	0.008	0.000
12:43:00 PM	0.1	0.008	0.000
12:44:00 PM	0.1	0.008	0.000
12:45:00 PM	0.1	0.008	0.000
12:46:00 PM	0.1	0.007	0.000
12:47:00 PM	0.1	0.007	0.000
12:48:00 PM	0.1	0.008	0.000
12:49:00 PM	0.1	0.008	0.000
12:50:00 PM	0.1	0.008	0.000
12:51:00 PM	0.1	0.009	0.000
12:52:00 PM	0.1	0.008	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
12:53:00 PM	0.1	0.007	0.000
12:54:00 PM	0.1	0.006	0.000
12:55:00 PM	0.1	0.005	0.000
12:56:00 PM	0.1	0.006	0.000
12:57:00 PM	0.1	0.007	0.000
12:58:00 PM	0.1	0.006	0.000
12:59:00 PM	0.1	0.005	0.000
1:00:00 PM	0.1	0.005	0.000
1:01:00 PM	0.1	0.006	0.000
1:02:00 PM	0.1	0.007	0.000
1:03:00 PM	0.1	0.010	0.000
1:04:00 PM	0.1	0.007	0.000
1:05:00 PM	0.1	0.007	0.000
1:06:00 PM	0.1	0.006	0.000
1:07:00 PM	0.1	0.007	0.000
1:08:00 PM	0.1	0.008	0.000
1:09:00 PM	0.1	0.008	0.000
1:10:00 PM	0.1	0.008	0.000
1:11:00 PM	0.1	0.008	0.000
1:12:00 PM	0.1	0.009	0.000
1:13:00 PM	0.1	0.008	0.000
1:14:00 PM	0.1	0.008	0.000
1:15:00 PM	0.1	0.008	0.000
1:16:00 PM	0.1	0.008	0.000
1:17:00 PM	0.1	0.009	0.000
1:18:00 PM	0.1	0.007	0.000
1:19:00 PM	0.1	0.007	0.000
1:20:00 PM	0.1	0.006	0.000
1:21:00 PM	0.1	0.006	0.000
1:22:00 PM	0.1	0.005	0.000
1:23:00 PM	0.1	0.006	0.000
1:24:00 PM	0.1	0.006	0.000
1:25:00 PM	0.1	0.006	0.000
1:26:00 PM	0.1	0.006	0.000
1:27:00 PM	0.1	0.007	0.000
1:28:00 PM	0.1	0.009	0.000
1:29:00 PM	0.1	0.015	0.000
1:30:00 PM	0.1	0.015	0.000
1:31:00 PM	0.1	0.008	0.000
1:32:00 PM	0.1	0.006	0.000
1:33:00 PM	0.1	0.015	0.000
1:34:00 PM	0.1	0.013	0.000
1:35:00 PM	0.1	0.009	0.000
1:36:00 PM	0.1	0.010	0.000
1:37:00 PM	0.1	0.005	0.000
1:38:00 PM	0.1	0.010	0.000
1:39:00 PM	0.1	0.005	0.000
1:40:00 PM	0.1	0.004	0.000
1:41:00 PM	0.1	0.005	0.000
1:42:00 PM	0.1	0.004	0.000
1:43:00 PM	0.1	0.003	0.000
1:44:00 PM	0.1	0.004	0.000
1:45:00 PM	0.1	0.003	0.000

LIRR Group D Substations
Cedar Manor Substation
Downwind
April 8, 2021

Elapsed Time [s]	VOCs (PPM)	Mass [mg/m3]	Mercury [mg/m)
1:46:00 PM	0.1	0.003	0.000
1:47:00 PM	0.1	0.009	0.000
1:48:00 PM	0.1	0.004	0.000
1:49:00 PM	0.1	0.004	0.000
1:50:00 PM	0.1	0.003	0.000
1:51:00 PM	0.1	0.003	0.000
1:52:00 PM	0.1	0.003	0.000
1:53:00 PM	0.1	0.004	0.000
1:54:00 PM	0.1	0.004	0.000
1:55:00 PM	0.1	0.005	0.000
1:56:00 PM	0.1	0.003	0.000
1:57:00 PM	0.1	0.004	0.000
1:58:00 PM	0.1	0.006	0.000
1:59:00 PM	0.1	0.004	0.000

DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

Project No.:		Winds From N ~10 mph	Date:	4/9/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00. Aarco spreading stone and regrading excavation area to original grade. All backfilled sand and stone is compacted utilizing a gas powered compactor. No camp needed as no intrusive work is conducted.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Collecting subslab endpoint samples from with in the substation.



Aarco backfilling excavation area with stone.



Regrading excavation area to reflect original grade.

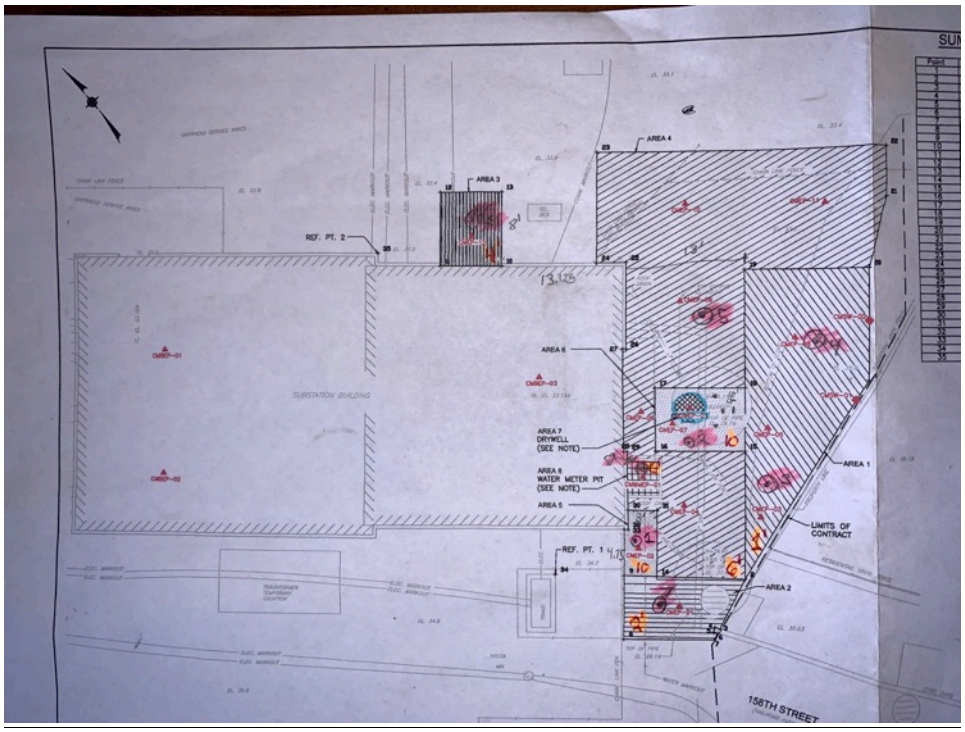


Aarco compacting all backfilled stone.



Aarco loading out road plates.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From N ~10 mph	Date:	4/12/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00. LIRR takes substation offline to allow for collection of endpoint samples CM-B-EP-01, CM-B-EP-02 and CM-B-EP-03 below the slab inside the substation. Aarco made entry into the confided space with all the required permitting and air monitoring. Preferred collected the three sample and submitted the same for analysis. Aarco patched all holes within the slab with concrete. No camp needed as no intrusive work is conducted.

Air Monitoring

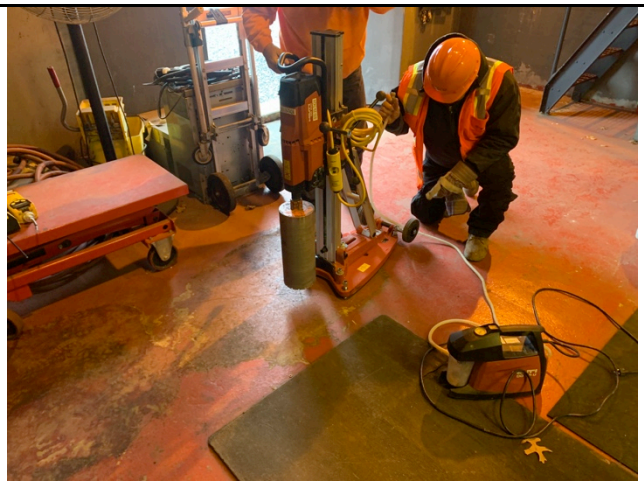
	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Installing fencing.



Aarco coring slab to allow for endpoint sampling.



Preferred screening all endpoint samples.

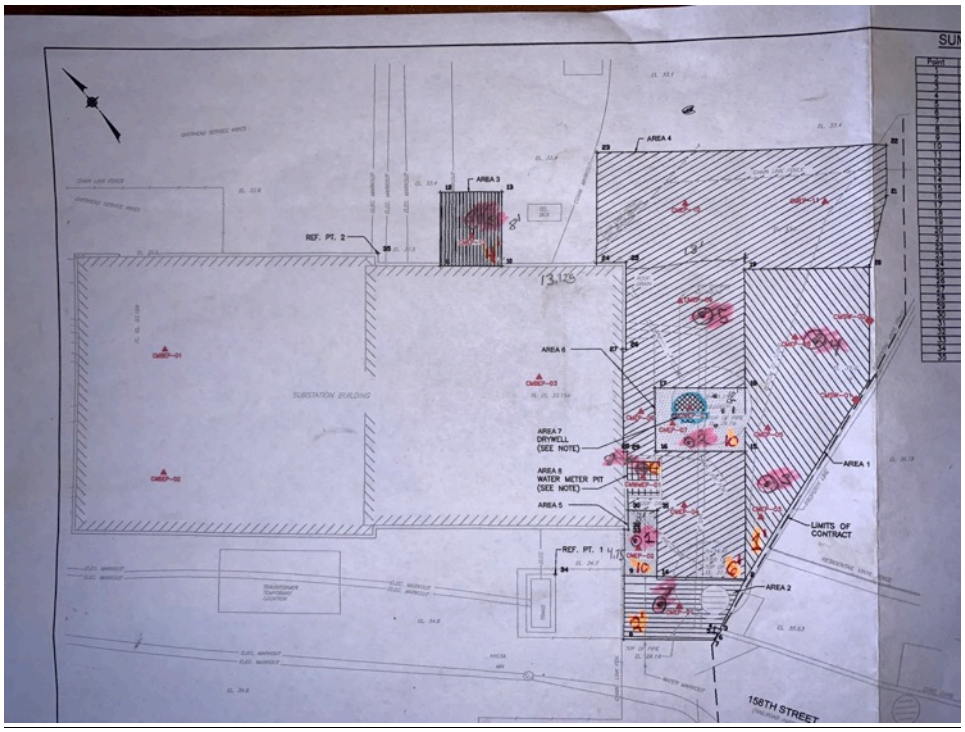


Aarco preparing to enter confined space to collect endpoint sample.



View of concrete patch.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From N ~9 mph	Date:	4/13/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00. Aarco installing fence posts and cementing the same in preparation for stringing the chain link fencing the following day. Aarco also installs collar and bricks to raise casting for drywell up to current grade. Surveyor's onsite to survey final excavation limits. No camp needed as no intrusive work is conducted.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/ m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Continue installing fencing.



Aarco installing fence polls.



Surveyor's onsite recording excavation limits.

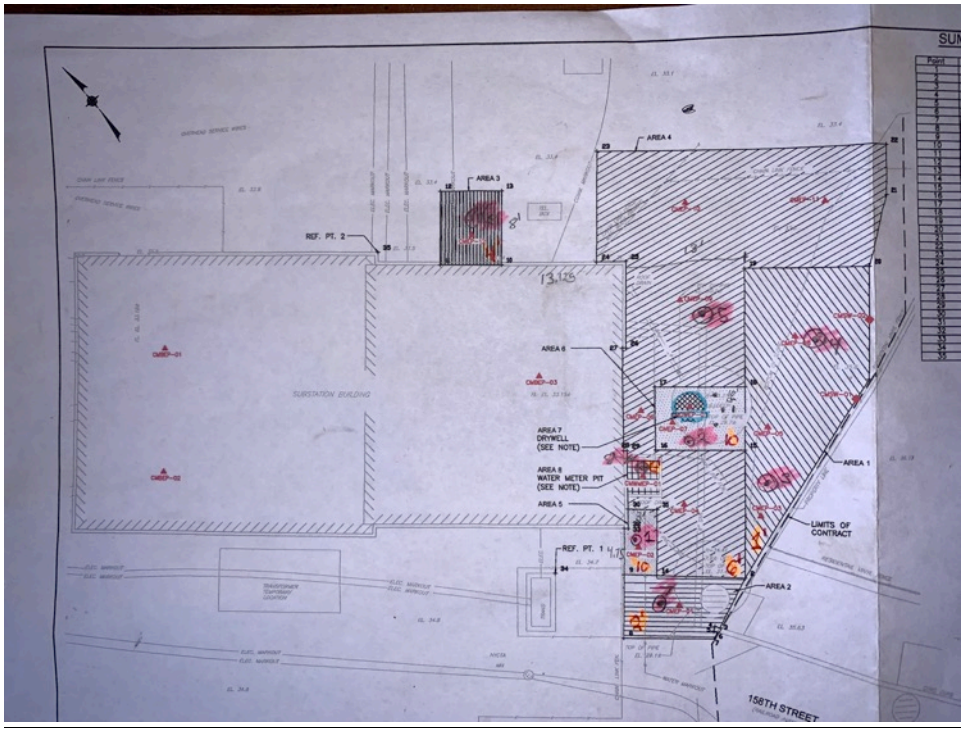


Aarco cementing fence polls.



Raising casting to grade.

Monitoring Locations



DAILY STATUS REPORT

Prepared By: Bryan Comey

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

Project No.:		Winds From W ~10 mph	Date:	4/14/21
Project Name:	LIRR Group D Substation Remediation-Cedar Manor Site-V00386-2			

Consultant:
Bryan Comey
Preferred Environmental Services

Work Activities Performed (Since Last Report):

Preferred conducted a toolbox talk before any work was commenced. LIRR onsite at 9:00. Aarco installing chain link fencing on previously installed polls. Aarco collecting temporary fencing for pickup. No camp needed as no intrusive work is conducted.

Air Monitoring

	Daily Average Concentration			Maximum 15 Minute Average		
	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)	VOC's (ppm)	PM-10 (mg/m^3)	Mercury (mg/m^3)
UP Wind	No Camp					
Down Wind						
Work Zone						

Exceedances (Since Last Report): None

Problems Encountered: None

Planned Activities for the Next Day/ Week:

- Demobilizing all equipment from site.



Aarco stockpiling rental fencing for pickup.



Aarco installing chain link fencing.

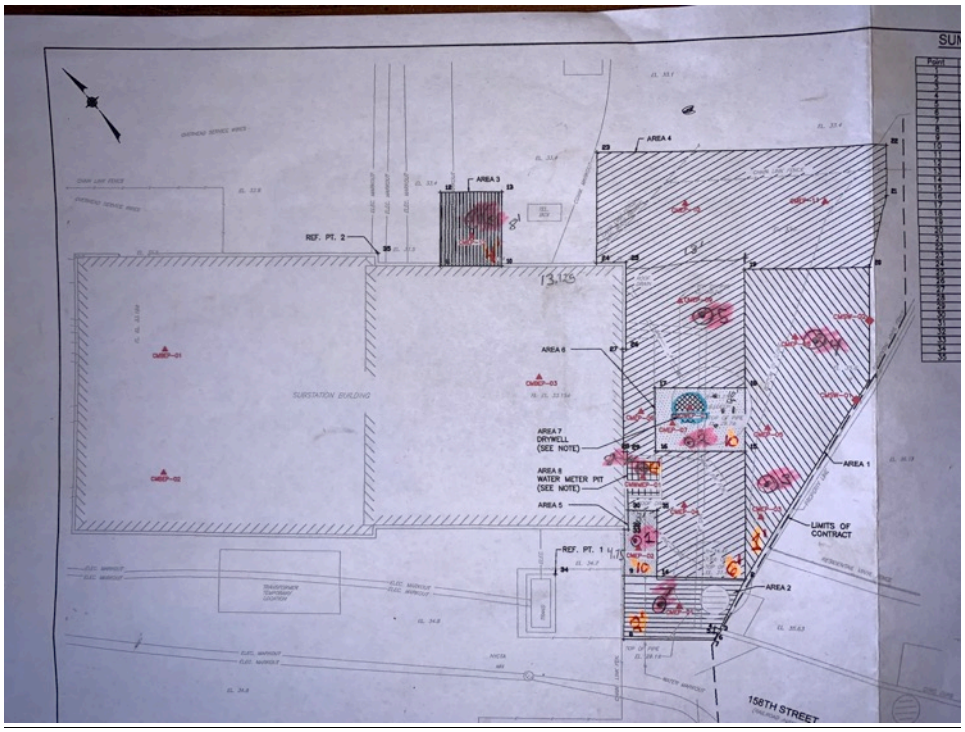


Aarco compacting stone.



View of finished fencing.

Monitoring Locations



APPENDIX D

Imported Materials Documentation

From:	Makowski, Jeffrey M
To:	Roger Terlaga (rterlaga@aarcoenvironmental.com); Steve Plofker (splofker@aarcoenvironmental.com)
Cc:	Albano, Albert; Hunt, Claire
Subject:	FW: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis
Date:	Thursday, January 30, 2020 11:24:38 AM

Roger / Steve,

Please see the below approval from the NYSDEC for the proposed clean fill from 110 Sand and Gravel.

Thanks,
Jeff

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

From: Post, Charles H (DEC) [mailto:charles.post@dec.ny.gov]
Sent: Thursday, January 30, 2020 10:10 AM
To: Makowski, Jeffrey M <jmakows@lirr.org>
Cc: Albano, Albert <aalbano@lirr.org>
Subject: RE: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

Good Morning –
I have reviewed your submission and didn't see anything out of the ordinary. The use of this material is approved.
Best Regards,
Charlie

Charles Post
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-1706
P: 518-402-9793 | Charles.Post@dec.ny.gov

www.dec.ny.gov | |

From: Makowski, Jeffrey M <jmakows@lirr.org>
Sent: Wednesday, January 29, 2020 10:42 AM
To: Post, Charles H (DEC) <charles.post@dec.ny.gov>
Cc: Albano, Albert <aalbano@lirr.org>

Subject: FW: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Charlie,

Good morning; Al and I just wanted to follow-up on this submission as we have not yet heard back. Can you please provide an update on the status of review/approval so we may let our remediation contractor know?

Thanks,
Jeff (and Al)

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

From: Makowski, Jeffrey M
Sent: Thursday, January 9, 2020 3:16 PM
To: Post, Charles H (DEC) (charles.post@dec.ny.gov) <charles.post@dec.ny.gov>
Cc: Albano, Albert <aalbano@lirr.org>
Subject: LIRR Group D Substations (Bayside and Cedar Manor) Clean Fill Analysis

Charlie,

As we have discussed, for your review and approval, please find the attached clean fill sampling and analysis package prepared by our selected remediation contractor (AARCO Environmental) for the use of clean fill from 110 Sand and Gravel for the LIRR Group D Substations (Bayside and Cedar Manor) remediation project consisting of the following:

- Completed NYSDEC Request to Import/Reuse Fill or Soil Form
- York Analytical Data Package dated 12/10/2019
- York EDD for Analytical Data Package dated 12/10/2019
- York EDD for Lab Data Comparison to NYSDEC SCOs
- York Analytical Data Package for Emerging Contaminants dated 12/30/2019
- York EDD for Analytical Data Package for Emerging Contaminants dated 12/30/2019
- 110 Sand and Gravel NYSDEC Sand Mining Permit documentation

As indicated in the attached, 110 Sand and Gravel is a NYSDEC-permitted sand quarry and the proposed fill material is from a clean, virgin source. The soil sampling analytical results indicate that all concentrations were reported as non-detect and/or below the Unrestricted Use Soil Cleanup Objectives (SCOs). Additionally, all sampling results for Emerging Contaminants (PFAS and 1,4-Dioxane) were reported as non-detect.

If you have any questions, please do not hesitate to contact myself and/or Al Albano, LIRR Senior Project Manager.

Regards,
Jeff

Jeff Makowski
Resident Engineer
LIRR – Department of Program Management
Office: (718) 558-4937
Cell: (347) 804-7400

110 Sand Company, 136 Spagnoli Road, Melville, NY 11747
Concrete Sand

Ticket	Date	Quantity (tons)
643287	12/28/2020	8.58
643769	1/5/2021	22.59
644314	1/11/2021	24.52
644424	1/12/2021	22.35
646035	1/29/2021	24.65
648653	3/11/2021	21.2
648773	3/12/2021	22.08
649120	3/16/2021	21.66
650885	4/5/2021	22.33
651011	4/6/2021	9.91
651159	4/7/2021	20.1
	Total	219.97

Tilcon New York Inc., 162 Old Mill Road, West Nyack, NY 10994
Stone ASTM 57/67 Clinton Point

Ticket	Date	Quantity (tons)
21323220	1/6/2021	20.2
21326229	3/15/2021	20.25
21327507	4/6/2021	25.1
21327477	4/8/2021	20.1
	Total	85.65

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 643287
Date: 12/28/2020 7:49 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 163.070
Loads: 9

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$274.56	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		8.58 tn	$32.00	$0.00	$0.00	$274.56

Gross	Tare	Net	Time IN	Time OUT
23 Tn 46,460 Lb	15 Tn 29,300 lb	9.00 Tn 17,160 Lb	7:35 AM	7:49 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 643769
Date: 1/5/2021 7:54 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 185.660
Loads: 10

19462 - AARCO#689 - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$722.88	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		22.59 tn	$32.00	$0.00	$0.00	$722.88

Gross	Tare	Net	Time IN	Time OUT
37 Tn 74,620 Lb	15 Tn 29,440 lb	23.00 Tn 45,180 Lb	7:47 AM	7:54 AM

Driver

INSPECTION

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 644314
Date: 1/11/2021 7:57 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 210.180
Loads: 11

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$784.64	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		24.52 tn	$32.00	$0.00	$0.00	$784.64

Gross	Tare	Net	Time IN	Time OUT
39 Tn 78,340 Lb	15 Tn 29,300 lb	25.00 Tn 49,040 Lb	7:40 AM	7:57 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 644424
Date: 1/12/2021 7:37 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 232.530
Loads: 12

19462 - AARCO#689 - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$715.20	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		22.35 tn	$32.00	$0.00	$0.00	$715.20

Gross	Tare	Net	Time IN	Time OUT
39 Tn 77,860 Lb	17 Tn 33,160 lb	22.00 Tn 44,700 Lb	7:09 AM	7:37 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 646035
Date: 1/29/2021 7:26 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 257.180
Loads: 13

19462 - AARCO#689 - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk
Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$788.80	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		24.65 tn	$32.00	$0.00	$0.00	$788.80

Gross	Tare	Net	Time IN	Time OUT
39 Tn 78,480 Lb	15 Tn 29,180 lb	25.00 Tn 49,300 Lb	7:11 AM	7:26 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 648653
Date: 3/11/2021 7:34 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 278.380
Loads: 14

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk
Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$678.40	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		21.2 tn	$32.00	$0.00	$0.00	$678.40

Gross	Tare	Net	Time IN	Time OUT
36 Tn 71,680 Lb	15 Tn 29,280 lb	21.00 Tn 42,400 Lb	7:26 AM	7:33 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 648773
Date: 3/12/2021 7:24 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 300.460
Loads: 15

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$706.56	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		22.08 tn	$32.00	$0.00	$0.00	$706.56

Gross	Tare	Net	Time IN	Time OUT
37 Tn 73,400 Lb	15 Tn 29,240 lb	22.00 Tn 44,160 Lb	7:06 AM	7:23 AM

Driver

INSPECTION

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 649120
Date: 3/16/2021 7:21 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 322.120
Loads: 16

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$693.12	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		21.66 tn	$32.00	$0.00	$0.00	$693.12

Gross	Tare	Net	Time IN	Time OUT
36 Tn 72,640 Lb	15 Tn 29,320 lb	22.00 Tn 43,320 Lb	7:12 AM	7:21 AM

Driver

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 650885
Date: 4/5/2021 7:49 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 344.450
Loads: 17

19462 - AARCO#689 - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$714.56	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		22.33 tn	$32.00	$0.00	$0.00	$714.56

Gross	Tare	Net	Time IN	Time OUT
37 Tn 74,160 Lb	15 Tn 29,500 lb	22.00 Tn 44,660 Lb	7:39 AM	7:48 AM

Driver

INSPECTION

110 Sand Company

136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 651011
Date: 4/6/2021 7:53 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC. CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 354.360
Loads: 18

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$317.12	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		9.91 tn	$32.00	$0.00	$0.00	$317.12

Gross	Tare	Net	Time IN	Time OUT
38 Tn 75,340 Lb	28 Tn 55,520 lb	10.00 Tn 19,820 Lb	7:45 AM	7:53 AM

Driver

110 Sand Company
136 Spagnoli Road
Melville, NY 11747

Business Office:
170 Cabot Street
West Babylon NY, 11704

Ticket #: 651159
Date: 4/7/2021 7:46 AM
Phone: (631) 249-4108
Fax: (631) 249-4126

Customer: 999120
AARCO ENVIRONMENTAL SVC.'CORP
50 GEAR AVENUE
LINDENHURST NY, 11757

Manifest #:
PO #:
Job #

Order Number: 18
CONCRETE SAND - LIRR
Tons: 374.460
Loads: 19

9462 - AARCO#D689 - 21Y - 19462MH
MTF - Michael Fritz License#602339
110 Sand Co - Suffolk

Remarks:

Payment Information

Type	Amount	Check Number
Credit Card	$643.20	31019

Material	Location Address	Quantity	Price	Misc $	Tax $	Line Total $
110 CONC. SAND (A)-10-34F		20.1 tn	$32.00	$0.00	$0.00	$643.20

Gross	Tare	Net	Time IN	Time OUT
35 Tn 69,300 Lb	15 Tn 29,100 lb	20.00 Tn 40,200 Lb	7:39 AM	7:46 AM

Driver

INSPECTION

TILCON

A CRH COMPANY

TILCON NEW YORK INC.

162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 789-7625

Ticket #: 21323220

REPRINT

Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21323220	01/06/2021	10:00		00213	Flushing Agg		

Sold To:
Cash Sales- Flushing
Job Description:

Customer #	Order #	Purchase Order
99114		

Zone	Truck #	Hauler
	60354PC	888888 FOB Vendor

Product #	Product Description	DOT Mix ID	Delivery Method
1014035	ASTM 57/67 CLINTON POINT		Pickup

Railroad

Loads: 1 **Accum Amount:** 20.20 Tons 18.33 Metric Tonnes

GROSS:	65,400	L
TARE:	25,000	L
NET:	40,400	L

UNIT PRICE:	36.96
SUBTOTAL:	746.59
FREIGHT:	0.00
TAX:	66.26
TOTAL:	812.85

This Load: 20.20 Tons 18.33 Metric Tonnes

Weighmaster Chris Pellicci

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT.OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ **Driver Name:** _____

TILCON NEW YORK INC.
162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders : (800) 872-7762
New Jersey Orders : (800) 782-7625

Ticket #: 21326229

	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21	08:30		00213	Flushing Agg		

Customer #	Order #	Purchase Order
99114		

Zone	Truck #	Hauler
	19462MH	888888 FOB Vendor

Product Description	DOT Mix ID	Delivery Method
7167 CLINTON POINT		Pickup

Job # 21065

000

TIDY-213 FLUSHING
3466 COLLEGE POINT BLVD
FLUSHING, NY 113542717
03/15/2021 08:31:17
CREDIT CARD
AMEX SALE

Card #	XXXXXXXXXXX2205
Chip Card:	AMERICAN EXPRESS
AID:	A0000000250108D1
ATC:	0085
TC:	526836383088E70B5
SEQ #:	1
Batch #:	681
INVOICE	1
Approval Code:	885074
Entry Method:	Chip Read
Mode:	Issuer

SALE AMOUNT $814.86

CUSTOMER COPY

Loads: 1 **Accum Amount:** 20.25 Tons 18.37 Metric Tonnes

GROSS:	65,500	L
TARE:	25,000	L
NET:	40,500	L

UNIT PRICE:	36.96
SUBTOTAL:	748.44
FREIGHT:	0.00
TAX:	66.42
TOTAL:	814.86

This Load: 20.25 Tons 18.37 Metric Tonnes

Weighmaster 00213 - Flushing Terminal

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT.OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVE ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ **Driver Name:** _____

TILCON NEW YORK INC.
162 OLD MILL ROAD
WEST NYACK, NY 10994
New York Orders (800) 672-7762
New Jersey Orders (800) 789-7625

Ticket #: 21327507

Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21327507	04/08/2021	13:38		00213	Flushing Agg		

Sold To:
Cash Sales Flushing
Job Description:

Customer #	Order #	Purchase Order
99114		

Zone	Truck #	Hauler
	60354PC	888888 FOB Vendor

Product #	Product Description	DOT Mix ID	Delivery Method
10140335	ASTM 57/67 CLINTON POINT		Pickup

service

Loads: 3 **Accum Amount:** 59.20 Tons 53.70 Metric Tonnes

GROSS	75.200	L
TARE	25.000	L
NET	50.200	L

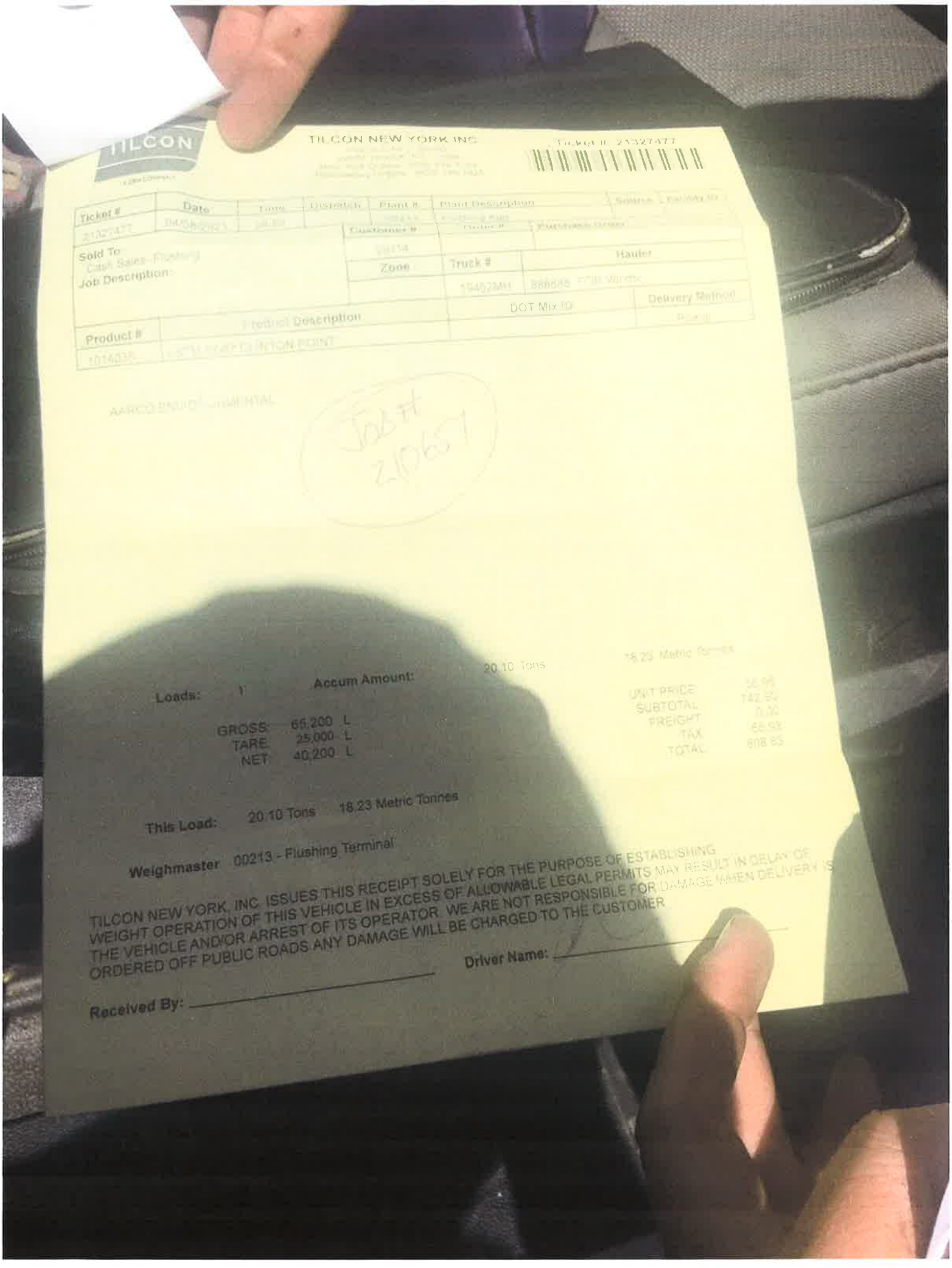
UNIT PRICE:	36.96
SUBTOTAL:	927.70
FREIGHT:	0.00
TAX:	82.33
TOTAL:	1010.03

his Load: 25.10 Tons 22.77 Metric Tonnes

hmaster 00213 - Flushing Terminal

W YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING
ERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF
E AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS
FF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

_____ **Driver Name:** _____



TILCON

TILCON NEW YORK INC

Ticket # 2132477

Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
2132477	04/08/2021	08:30		00213	Flushing Plant		

Sold To: Cash Sales - Flushing
Job Description:

Customer #	Order #	Purchase Order
99818		

Zone	Truck #	Hauler
	154023MH	888888 FOR WORK

Product #	Product Description	DOT Mix ID	Delivery Method
1014035	1/2" MIX FOR ASTON POINT		

AARCO ENVIRONMENTAL

Job # 21051

Loads: 1 Accum Amount: 20.10 Tons 18.23 Metric Tonnes

GROSS	65,200 L
TARE	25,000 L
NET	40,200 L

UNIT PRICE	35.55
SUBTOTAL	142.20
FREIGHT	0.00
TAX	66.63
TOTAL	608.83

This Load: 20.10 Tons 18.23 Metric Tonnes

Weighmaster 00213 - Flushing Terminal

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ Driver Name: _____

APPENDIX E

Waste Documentation

Waste Hauler Permit Certificates

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: **09/28/2020**
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY:
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
110 Sand Company Clean Fill Disposal Site	Melville , NY	Non-Hazardous Industrial/Commercial	
380 DEVELOPMENT LLC (Various BUDs)	STATEN ISLAND , NY	Non-Hazardous Industrial/Commercial	
All Island Mason Supply Inc	Kings Park , NY	Non-Hazardous Industrial/Commercial	
BAYSHORE RECYCLING	WOODBRIDGE , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BAYSHORE SOIL MANAGEMENT, LLC	KEASBEY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BELLMAWR WATERFRONT DEVELOPMENT	BELLMAWR , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
BETHLEHEM EARTH, LP	BETHLEHEM , PA	Non-Hazardous Industrial/Commercial	
BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX	FLORENCE , NJ	Non-Hazardous Industrial/Commercial	
CASIE ECOLOGY OIL SALVAGE INC	VINELAND , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil Grease Trap Waste Hazardous Industrial/Commercial	
CHEMICAL WASTE MANAGEMENT	EMELLE , AL	Hazardous Industrial/Commercial	
CLEAN EARTH OF CARTERET	CARTERET , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF MARYLAND	HAGERSTOWN , MD	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NOTE: By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

ADDRESS:

New York State Department of Environmental Conservation
Division of Materials Management - Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

AUTHORIZED SIGNATURE: _____ Date: 9/16/19

NOTICE

This renewed permit is not valid until the effective date listed on the permit.

WASTE TRANSPORTER PERMIT

GENERAL CONDITIONS

The permittee must:

1. Carry a copy of this waste transporter permit in each vehicle to transport waste. Failure to produce a copy of the permit upon request is a violation of the permit.

2. Display the full name of the transporter on both sides of each vehicle and display the waste transporter permit number on both sides and rear of each vehicle containing waste. The displayed name and permit number must be in characters at least three inches high and of a color that contrasts sharply with the background.

3. Transport waste only in authorized vehicles. An authorized vehicle is one that is listed on this permit.

4. Submit to the Department a modification application for additions/deletions to the authorized fleet of vehicles. The permittee must wait for a modified permit before operating the vehicles identified in the modification application.

5. Submit to the Department a modification application to add a new waste category or a new destination facility, or to change the current waste or destination facility category. The permittee must wait for a modified permit before transporting new waste types or transporting to new destination facilities.

6. Submit to the Department a modification application for change of address or company name.

7. Comply with requirements for placarding and packaging as set forth in New York State Transportation Law as well as any applicable federal rules and regulations.

8. Contain all wastes in the vehicle so there is no leaking, blowing, or other discharge of waste.

9. Use vehicles to transport only materials not intended for human or animal consumption unless the vehicle is properly cleaned.

10. Comply with requirements for manifesting hazardous waste, regulated medical waste, or low-level radioactive waste as set forth in the New York State Environmental Conservation Law and the implementing regulations. Transporters who provide a pre-printed manifest to a generator/shipper/ offeror of regulated waste shall ensure that all information is correct and clearly legible on all copies of the manifest.

11. Deliver waste only to transfer, storage, treatment and disposal facilities authorized to accept such waste. Permittee must demonstrate that facilities are so authorized if requested to do so.

12. Maintain liability insurance as required by New York State Environmental Conservation Law.

13. Maintain records of the amount of each waste type transported to each destination facility on a calendar-year basis. The transporter is obligated to provide a report of this information to the Department at the time of permit renewal, or to any law enforcement officer, if requested to do so.

14. Pay regulatory fees on an annual basis. Non-payment may be cause for revocation or suspension of permit.

15. This permit is not transferrable. A change of ownership will invalidate this permit.

16. This permit does not relieve the permittee from the obligation to obtain any other approvals or permits, or from complying with any other applicable federal, state, or local requirement.

17. **Renewal applications must be submitted no less than 30 days prior to the expiration date of the permit to:**

New York State Department of Environmental Conservation
Division of Materials Management, Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: **09/28/2020**
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
CLEAN EARTH OF NEW CASTLE, INC.	NEW CASTLE , DE	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF NORTH JERSEY	KEARNY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil Hazardous Industrial/Commercial	
CLEAN EARTH OF PHILADELPHIA	PHILADELPHIA , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CLEAN EARTH OF SOUTHEAST PENNSYLVANIA	MORRISVILLE , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
CONESTOGA LANDFILL	MORGANTOWN , PA	Non-Hazardous Industrial/Commercial	
COPLAY AGGREGATES	WHITEHALL , PA	Petroleum Contaminated Soil	
CUMBERLAND COUNTY IMPROVEMENT AUTHORITY	MILLVILLE , NJ	Non-Hazardous Industrial/Commercial	
CUMBERLAND COUNTY LF-NEWBURG	NEWBURG , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
DOREMUS AVENUE REDEVELOPMENT PROJECT	NEWARK , NJ	Non-Hazardous Industrial/Commercial	
DUPONT GRASSELLI SITE	LINDEN CITY , NJ	Non-Hazardous Industrial/Commercial	
DURABLE RECYCLING	BAYONNE , NJ	Non-Hazardous Industrial/Commercial	
EARTH EFFICIENT BTL	POCONO SUMMIT , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
EXPERT RECYCLING SERVICE LLC	OLD BRIDGE , NJ	Non-Hazardous Industrial/Commercial	
Faztec Industries	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
FENIMORE SANITARY LANDFILL	ROXBURY , NJ	Non-Hazardous Industrial/Commercial	
FORMER NUODEX, INC. (AKA EPEC POLYMERS INC.)	KEASBY , NJ	Non-Hazardous Industrial/Commercial	
FREEMANSBURG RESTORATION FACILITY	FREEMANSBURG , PA	Non-Hazardous Industrial/Commercial	
GREENVIEW	STROUDSBURG , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
GRIFFIN PIPE PRODUCTION CO.	FLORENCE , NJ	Non-Hazardous Industrial/Commercial	
GRINNELL RECYCLING INC	SPARTA , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
GROWS LANDFILL NORTH (PA DEP 101680)	MORRISVILLE , PA	Non-Hazardous Industrial/Commercial Asbestos	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: **09/28/2020**
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
HAZLETON CREEK PROPERTIES, LLC	HAZLETON , PA	Non-Hazardous Industrial/Commercial	
HENRY HARRIS SLF (ALHERN, INC.)	MULLICA HILL , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
HOFFMAN GRIFFETT MINE RECLAMATION FACILITY	BELVIDERE , NJ	Non-Hazardous Industrial/Commercial	
I.S.P.	LINDEN , NJ	Non-Hazardous Industrial/Commercial	
IMPACT RECOVERY AND REUSE CENTER	LYNDHURST , NJ	Non-Hazardous Industrial/Commercial	
JERC PARTNERS VII/LLC	EDISON , NJ	Non-Hazardous Industrial/Commercial	
KEARNY POINT INDUSTRIAL PARK (KPIP)	SOUTH KEARNY , NJ	Non-Hazardous Industrial/Commercial	
KINGSLAND LANDFILL CLOSURE PROJECT	LYNDHURST , NJ	Non-Hazardous Industrial/Commercial	
LINCOLN PARK WEST LANDFILL	JERSEY CITY , NJ	Non-Hazardous Industrial/Commercial	
LINDEN DEVELOPMENT LLC	LINDEN , NJ	Non-Hazardous Industrial/Commercial	
MALANKA (MALL) LANDFILL	SECAUCUS , NJ	Non-Hazardous Industrial/Commercial	
MIDDLESEX COUNTY UTILITIES AUTHORITY-EDGEBORO LANDFILL	EAST BRUNSWICK , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
MORRIS BLANCHARD REDEVELOPMENT	NEWARK , NJ	Non-Hazardous Industrial/Commercial	
NORTH BERGEN RECYCLING	NORTH BERGEN , NJ	Non-Hazardous Industrial/Commercial	
OVERPECK PARK LANDFILL AREA IV	PALISADES PARK , NJ	Non-Hazardous Industrial/Commercial	
P PARK NORTH LLC	PROSPECT PARK , NJ	Non-Hazardous Industrial/Commercial	
Pebble Lane Associates LLC	Maspeth , NY	Non-Hazardous Industrial/Commercial	
PHASE III ENVIRONMENTAL	PALMERTON , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
PURE SOIL @ PERTH AMBOY	PERTH AMBOY , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
PURE SOIL TECHNOLOGIES	JACKSON , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
REPUBLIC ENVIRONMENTAL SYSTEMS (PA) INC.	HATFIELD , PA	Non-Hazardous Industrial/Commercial Hazardous Industrial/Commercial	
RIVER TERMINAL DEVELOPMENT	SOUTH KEARNY , NJ	Non-Hazardous Industrial/Commercial	
RODOTA FILL SITE	BELVIDERE , NJ	Non-Hazardous Industrial/Commercial	
SAXTON FALLS SAND AND GRAVEL CO.	STANHOPE , NJ	Petroleum Contaminated Soil	
SKYMARK DEVELOPMENT CO.	RIDGEFIELD PARK , NJ	Non-Hazardous Industrial/Commercial	
SLRD COMPANY MULLICA HILL, LLC	MULLICA HILL , NJ	Non-Hazardous Industrial/Commercial	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

CONTACT NAME: MANUEL MUNOZ
COUNTY: OUT OF STATE
TELEPHONE NO: (201)997-8885

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 09/29/2019
EXPIRATION DATE: **09/28/2020**
US EPA ID NUMBER: NJR986652006

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
SLRD COMPANY MULLICA HILL, LLC	MULLICA HILL , NJ	Petroleum Contaminated Soil	
SOIL SAFE, INC.	LOGAN TOWNSHIP , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
SOIL SAFE-METRO 12	CARTERET , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TETERBORO LANDING	TETERBORO , NJ	Non-Hazardous Industrial/Commercial	
TM Maintenance Inc	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TOTAL RECYCLING CORPORATION/FULLERTON SLAG BANK	ALLENTOWN , PA	Non-Hazardous Industrial/Commercial	
TRC WALNUT CUT-LOT 2	DANIELSVILLE , PA	Non-Hazardous Industrial/Commercial	
TREMLEY POINT FLY ASH DISPOSAL SITE	LINDEN , NJ	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
TULLYTOWN RESOURCE RECOVERY FACILITY (PA DEP 101494)	TULLYTOWN , PA	Non-Hazardous Industrial/Commercial	
VALLEY INDUSTRIAL PROPERTIES	EAST BANGOR , PA	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
Vanbro Corporation	Staten Island , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
WESTERN BERKS LANDFILL	BIRDSBORO , PA	Non-Hazardous Industrial/Commercial	
WESTSIDE TRANSLOAD LLC	NORTH BERGEN , NJ	Non-Hazardous Industrial/Commercial	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. NJ-777

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

MUNOZ TRUCKING, CORP.
40-48 PORETE AVENUE
NORTH ARLINGTON, NJ 07031

PERMIT TYPE:

- ☐ NEW
- ■ RENEWAL
- ☐ MODIFICATION

CONTACT NAME:	MANUEL MUNOZ	EFFECTIVE DATE:	09/29/2019
COUNTY:	OUT OF STATE	EXPIRATION DATE:	**09/28/2020**
TELEPHONE NO:	(201)997-8885	US EPA ID NUMBER:	NJR986652006

AUTHORIZED VEHICLES:
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

75 (Seventy Five) Permitted Vehicle(s)

NJ AP776R
NJ AR166G
NJ AR167G
NJ AR558H
NJ AS137K
NJ AS194V
NJ AS197V
NJ AS198V
NJ AS199V
NJ AS200V
NJ AS244U
NJ AS245U
NJ AS246U
NJ AS247U
NJ AS248U
NJ AS249U
NJ AS932W
NJ AS933W
NJ AS934W
NJ AS935W
NJ AS936W
NJ AS937W
NJ AT378J
NJ AT379J
NJ AT380J
NJ AT381J
NJ AT382J
NJ AT383J
NJ AT384J
NJ AT385J
NJ AT386J
NJ AT387J
NJ AT388J
NJ AT389J
NJ AT390J
NJ AT390V
NJ AT391J
NJ AT391V
NJ AT392J
NJ AT808U
NJ AT809U
NJ AT810U
NJ AT811U
NJ AT812U
NJ AT813U
NJ AT871R
NJ AT872R
NJ AT873R
NJ AT874R
NJ AT875R
NJ AU159D
NJ AU160D
NJ AU208M
NJ AU307U
NJ AU308U
NJ AU313B
NJ AU314B
NJ AU391H
NJ AU471C
NJ AW708D
NJ AW709D
NJ AW710D
NJ AW711D
NJ AW712D
NJ AW713D
NJ AW834B
NJ AW835B
NJ AW836B
NJ AW837B
NJ AW838B
NJ AW839B
NJ AW840B
NJ AW841B
NJ AW842B
NJ AW843B
End of List

Disposal Facility Approval Letter

CLEANEARTH
RECYCLING & DISPOSAL SOLUTIONS

December 5, 2019

Albert Albano
MTA-Long Island Rail Road
144-419 94th Avenue
Jamaica, NY 11435

Global #: 156016

RE: MTA-LIRR | Bayside Substation
Dead End, 158th St South Jamaica-Queens, NY 11361

Dear Mr. Albano,

Clean Earth of Carteret, Inc. (CEC) is pleased to provide you with this acceptance letter for the soil material being generated from the site referenced above. We reviewed the analytical results performed by York Analytical Laboratories Inc. (Lab ID: 19J0828) for the above referenced site. Based upon the review of the data and profile provided, CEC can accept non-hazardous contaminated soil material being generated from the site.

This letter serves as approval of ~ 375 tons of non-hazardous soil material represented by composite sample IDs: 'CM-Area9-DW-WC-1', 'CM-Area7-DW-WC-2', 'CM-CS-1' and all related grab samples to be generated from construction activities at the site.

Currently CEC has enough analysis on hand to cover estimated quantity of material. In the event the volume exceeds approved tonnages, the facility is permitted to analyze missing parameters by collecting soil samples from incoming loads. Please note that TPH analysis (every 600 Tons) will be required to comply with CEC's Class B permit. In the essence of saving time, CEC will collect the additional TPH samples as required upon arrival at the facility to meet the CEC analytical requirements.

Please provide the approval number when scheduling and include the approval number and grid location id on all manifests when shipping soils generated from this site. CEC can only accept non-Hazardous petroleum impacted soils. Any soils with free petroleum product or liquids, sludge's, or hazardous waste cannot be accepted. The generator will be notified of any non-conforming material. Processing of the soil will be performed under NJDEP Recycling Center Permit No. CBG170002.

If you should have any questions or require any additional information, please call me at (732) 541-8909 Ext 1966.

Sincerely,

Lawrenzo Yengwia
Clean Earth of Carteret

Cc: Tejas R. Shah

CLEANEARTH
RECYCLING & DISPOSAL SOLUTIONS

September 10, 2019

Mr. Roger Terlaga

AARCO Environmental Services Corp.

50 Gear Avenue

Lindenhurst, NY 11757

Re: MTA/LIRR Remediation of Group “D” Substations

Contract #6302

Dear Mr. Terlaga,

Please allow this letter to serve as confirmation that Clean Earth will be partnering with AARCO Environmental on disposal services for material generated from the above referenced site. Said material will be disposed of at either our Clean Earth of Carteret or Clean Earth of North Jersey facilities. We have reviewed the initial data provided and have the ability to accept these materials per our facility acceptance criteria.

Feel free to contact me with any questions or concerns.

Sincerely,

Richard Crawford

Richard Crawford

Vice President Sales – Soil Division

Facility Permit Certificates

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF SOLID & HAZARDOUS WASTE
BUREAU OF RECYCLING AND HAZARDOUS WASTE MANAGEMENT
MAIL CODE: 401-02C
P.O. BOX 420 401 EAST STATE STREET
TRENTON, NEW JERSEY 08625-0420
Telephone: (609) 984-3438 Telecopier: (609) 777-1951
http://www.state.nj.us/dep/dshw

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

MAY 05 2014

CERTIFIED MAIL RETURN RECEIPT NO.: 7011 2970 0003 7283 1515

Robert P. Fixter, Vice President
Clean Earth of North Jersey, Inc
105 Jacobus Avenue
South Kearny, NJ 07032

Re: Final Permit for the Hazardous Waste Facility Permit Renewal for:
CLEAN EARTH OF NORTH JERSEY INC
Kearny Town, Hudson County
EPA ID No.: NJD991291105
Permit No.: HWP040002

Dear Mr. Fixter:

The New Jersey Department of Environmental Protection's Bureau of Recycling and Hazardous Waste Management (Bureau) has evaluated the public comments received on the draft hazardous waste facility permit renewal for Clean Earth of North Jersey Inc during the public comment period, which ended December 15, 2011.

The Bureau has reached a final determination to issue the hazardous waste facility permit. Copies of the final permit and Report of Public Comment are enclosed for your information.

Should you wish to contest any of the conditions of the enclosed permit, you must file a request for an adjudicatory hearing with the Department's Office of Legal Affairs within twenty (20) days of the date you receive this decision notice. A copy of the request must also be mailed to this Bureau. The adjudicatory hearing shall be conducted in accordance with the Administrative Procedures Act, N.J.S.A. 52:14B1 et seq. and the Uniform Administrative Procedures Rules, N.J.A.C. 1:1.

Very truly yours,

Guy Watson, Chief
Bureau of Recycling and Hazardous Waste Management

Enclosures: Final permit/Report of Public Comment
Document: Facility Final Permit

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF SOLID & HAZARDOUS WASTE
BUREAU OF RECYCLING AND HAZARDOUS WASTE MANAGEMENT
MAIL CODE: 401-02C
P.O. BOX 420 401 EAST STATE STREET
TRENTON, NEW JERSEY 08625-0420
Telephone: (609) 984-3438 Telecopier: (609) 777-1951
http://www.state.nj.us/dep/dshw

BOB MARTIN
Commissioner

Hazardous Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

CLEAN EARTH OF NORTH JERSEY INC
105 Jacobus Ave
Kearny, New Jersey 07032

For the Purpose of Operating a:	Hazardous Waste Treatment, Storage and Transfer Facility
Lot & Block :	Lots 14 and 14A; Block: 289
In the Municipality of:	Kearny Town
County:	Hudson
Under Facility Permit No.:	HWP040002
EPA ID No.:	NJD991291105

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection or the U.S. Environmental Protection Agency.

May 5, 2014
Issuance Date

Guy J. Watson
Guy Watson, Chief
Bureau of Recycling and Hazardous Waste Management

June 4, 2014
Effective Date

June 4, 2024
Expiration Date

Referenced Permit Application Documents

The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260 through 270, the conditions of this permit, and the following permit application documents:

(1) Clean Earth of North Jersey, Inc, Part A permit application for a hazardous waste facility signed by Robert Fixter, August 10, 2009 and revised June 2011.

(2) Clean Earth of North Jersey, Inc, Part B permit application for a hazardous waste facility signed by Robert Fixter, August 10, 2009, subsequently revised October 2010; March 23, 2011; May 23, 2011, June 7, 2011, June 29, 2011, July 18, 2011, September 13, 2011, and October 7, 2011 signed by Michael Logan, Vice President, Compliance Plus Services and the following drawings:

(3) Drawing signed and sealed by Arthur A. Swallow, PLS:

Drawing Title	Revision	Number
Site Survey Plan	1	CENJ-01

(4) Drawings signed and sealed by Thomas G. Pullar, PE:

Drawing Title	Revision	Number
Site Features Plan	4	CENJ-02
Traffic Plan	1	CENJ-03
Site Location Plan	1	CENJ-04

(5) Drawing by United States Housing and Urban Development

Drawing Title	Revision	Number
Flood Insurance Rate Map		CENJ-05

(6) Drawings signed and sealed by Robert Busch, PE:

Drawing Title	Revision	Number
New Containment Area		

Foundation Plan Sections & Details	0	CENJ-06
SP1 -New Containment Building Site Plan	13	CENJ-07
SP2 - New Containment Building – Various Areas, Plans, Sections & Details	5	CENJ-08
SP3 – New Containment Building – Various Areas, Plans, Sections & Details	5	CENJ-09
A1-New Containment Building Plans and Details	6	CENJ-10
A2- New Containment Building Elevations	4	CENJ-11
A3- New Containment Building Screening Operations Plan	5	CENJ-12
A4- New Containment Building Sections	2	CENJ-13
S1- New Containment Building Foundation Plan Sections Details	7	CENJ-14
S2- New Containment Building Sections & Details	3	CENJ-15
S3- New Containment Building Roof Framing Plans Section Details	4	CENJ-16
R1- New Containment Building Rail Car Position Layout	1	CENJ-17
R2- New Containment Building Rail Car Position Layout	1	CENJ-18
T1- New Containment Building Traffic Plan	2	CENJ-19

(7) Drawing signed by Jon Fellgraft, AIA:

Drawing Title	Revision	Number
Proposed Temporary Shed for S&W Waste Shed Roof Framing Plan	1	CENJ-20

(8) Drawing signed and sealed by Lahbib Chibani, PE:

Drawing Title	Revision	Number
Modification to Existing Tank Farm	2	CENJ-21

(9) Drawing signed and sealed by Ahmed Hamidi, PE

Drawing Title	Revision	Number
QC Dock Modification Plan & Details	1	CENJ-22
Existing & Proposed Loading/Unloading Areas	1	CENJ-23

In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the Part B permit application documents.

One complete set of the permit application documents listed above, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. The records, reports and plans required pursuant to this permit include the following:

The description of the personnel training program and the records required by this permit and 40 C.F.R. 264.16.

The Contingency Plan required by this permit and 40 C.F.R. Part 264 Subpart D, and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

The written Operating Record required by this permit and 40 C.F.R. 264.73.

Copies of the financial documents and closure cost estimate required by this permit and 40 C.F.R. Part 264 Subpart H.

The Waste Analysis Plan outlined in this permit and as required by 40 C.F.R. 264.13, and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

The Inspection Schedule required by 40 C.F.R. 264.15(b) and the records required by this permit.

The Closure Plan required this permit and 40 C.F.R. 264.112 and specifically the plan prepared by Michael Logan, Vice President, Compliance Plus Services dated August 2009 and subsequent revisions.

Subject Item: PI 45910 -

1. The permittee must comply with all conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit (See 40 C.F.R. 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [40 CFR 270.30(a)]
2. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. [40 CFR 270.30(b)]
3. A complete application for a new permit shall be submitted at least one hundred eighty (180) days prior to the expiration date of this permit. [40 CFR 270.10(h)]
4. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 270.30(c)]
5. In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment. [40 CFR 270.30(d)]
6. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit. [40 CFR 270.30(e)]
7. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [40 CFR 270.30(f)]
8. The permit does not convey any property rights of any sort, or any exclusive privilege. [40 CFR 270.30(g)]
9. The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit. [40 CFR 270.30(h)]
10. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials and other documents as may be required by law, to: (a) enter at reasonable times upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (b) have access to and copy any records that must be kept under the conditions of this permit; (c) inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and (d) sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location. [40 CFR 270.30(i)]

Subject Item: PI 45910 -

11. The permittee shall retain records of all sampling and monitoring information for a period of at least three (3) years from the date of the sample, measurement, report, or certification. Such records shall include all calibration and maintenance records for monitoring devices, all original strip chart recordings or other data for continuous monitoring instrumentation, and copies of all reports which include results of analyses or monitoring data. All reports required by this permit, the certification required by 40 C.F.R. 264.73(b)(9), and records of all data used to complete the application for this permit shall also be retained for a period of at least three (3) years. This period may be extended by the Department at any time. The permittee shall maintain records from all ground-water monitoring wells and associated ground-water surface elevations for the active life of the facility; and for disposal facilities throughout the post-closure care period as well. All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. [40 CFR 270.30(j)(2)]

12. Records for monitoring information shall include the date, exact place, and time of sampling or measurements; the identity of the individual(s) who performed the sampling or measurements; the date(s) analyses were performed; the identity of the individual(s) who performed the analyses; documentation of the analytical techniques or methods used; and the results of such analyses. [40 CFR 270.30(j)(3)]

13. All applications, reports, or information submitted to the Department shall be signed and certified as specified in 40 C.F.R. 270.11. [40 CFR 270.30(k)]

14. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. [40 CFR 270.30(l)(1)]

15. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. [40 CFR 270.30(l)(2)]

16. For a new facility, the permittee may not treat, store, or dispose of hazardous waste, and for a facility being modified the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility, except as provided in 40 C.F.R. 270.42, until the permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by the permittee and a licensed/registered professional engineer in the State of New Jersey, stating that the facility has been constructed or modified in compliance with the permit and the Department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit. If, within fifteen (15) days of the date of submission of the aforementioned letter the permittee has not received notice from the Department of intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste. [40 CFR 270.30(l)(2)]

17. This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Resource Conservation and Recovery Act (See 40 C.F.R. 270.40). [40 CFR 270.30(l)(3)]

18. Monitoring results shall be reported at the intervals specified elsewhere in this permit. [40 CFR 270.30(l)(4)]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date. [40 CFR 270.30(l)(5)]

Subject Item: PI 45910 -

20. The permittee shall report any noncompliance which may endanger health or the environment orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, including information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies and any information of a release or discharge of hazardous waste or of a fire or explosion from the hazardous waste management facility, which could threaten the environment or human health outside the facility. [40 CFR 270.30(l)(6)(i)]

21. The description of any reported occurrences of noncompliance or release and its cause shall include the name, address, and telephone number of the owner or operator; the name, address, and telephone number of the facility; the date, time, and type of incident; the name and quantity of material(s) involved; the extent of injuries, if any; an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and the estimated quantity and disposition of recovered material that resulted from the incident. [40 CFR 270.30(l)(6)(ii)]

22. A written submission or report of the noncompliance or release shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Department may waive the five (5) day written notice requirement in favor of a written report within fifteen (15) days. [40 CFR 270.30(l)(6)(iii)]

23. All oral notifications of noncompliance or releases shall be provided to the NJDEP Hotline at 1-877-WARN DEP (1-877-9276-337). Written notification shall be provided to the Bureau of Recycling and Hazardous Waste Management and the Bureau of Hazardous Waste & UST Compliance and Enforcement at the addresses provided in this permit. [40 CFR 270.30(a)]

24. A biennial report must be submitted covering facility activities during odd numbered calendar years (See 40 C.F.R. 264.75). [40 CFR 270.30(l)(9)]

25. The permittee shall report all instances of noncompliance not reported under 40 C.F.R. 270.30(l)(4), (5), and (6) at the time monitoring reports are submitted. The reports shall contain the information listed in 40 C.F.R. 270.30(l)(6). [40 CFR 270.30(l)(10)]

26. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information. [40 CFR 270.30(l)(11)]

27. The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations. [40 CFR 270.4(c)]

28. Cause for, and procedures of, modification, or revocation and reissuance of this permit shall be as provided under 40 C.F.R. 270.41. [40 CFR 270.41]

29. Causes for terminating a permit during its term or for denying a permit renewal application include the permittee's noncompliance with any condition of this permit; the permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or misrepresentation of any relevant facts at any time; or a determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination. [40 CFR 270.43(a)]

Subject Item: PI 45910 -

30. Facility personnel shall successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of 40 C.F.R. 264.16, as stated in the facility's Part B permit application documents referenced in this permit. New employees shall be trained within six (6) months of the date of employment. [40 CFR 264.16(a)]

31. The permittee shall maintain the following documents and records at the facility: (a) the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; (b) a written job description for each position; (c) a written description of the type and amount of both introductory and continuing training that has been and will be given to each person filling a position; and (d) records that document that the training or job experience required has been given to, and completed by, facility personnel. [40 CFR 264.16(d)]

32. The permittee shall keep the training records on current personnel until closure of the facility; training records on former employees shall be kept for at least three (3) years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company. [40 CFR 264.16(e)]

33. The facility shall be designed, constructed, maintained and operated to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, surface water or groundwater that could threaten human health or the environment. [40 CFR 264.31]

34. The facility shall be equipped with emergency equipment, including but not limited to: (a) an internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel; (b) a device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams; (c) portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment; and (d) water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems. [40 CFR 264.32]

35. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. [40 CFR 264.33]

36. Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation must have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, unless the Department has ruled that such a device is not required under 40 C.F.R. 264.32. [40 CFR 264.34(a)]

37. If there is ever just one employee on the premises while the facility is operating, he must have immediate access to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance, unless the Department has ruled that such a device is not required under 40 C.F.R. 264.32. [40 CFR 264.34(b)]

Subject Item: PI 45910 -

38. The permittee must attempt to make arrangements with State and local authorites, as appropriate for the type and scale of facility, to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes. Where State or local authorities decline to enter into such arrangements, the permittee must document the refusal in the operating record and where more than one police and fire department might respond to an emergency, agreements designating primary emergency authority to a specific police and specific fire department, and agreements with any others to provide support to the primary emergency authority must be made. [40 CFR 264.37(a)]

39. The permittee must attempt to make agreements with emergency response teams, emergency response contractors, and equipment suppliers to handle emergencies at the site. [40 CFR 264.37(a)(3)]

40. The permittee must attempt to make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases. [40 CFR 264.37(a)(4)]

41. The provisions of the Contingency Plan included in the hazardous waste facility permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department shall be carried out immediately whenever there is a fire, explosion or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment. [40 CFR 264.51(b)]

42. Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately activate internal facility alarms or communication systems, where applicable, to notify all facility personnel and notify appropriate State or local agencies with designated response roles if their help is needed. [40 CFR 264.56(a)]

43. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment outside the facility, and his assessment indicates that evacuation of local areas may be advisable, the emergency coordinator must immediately notify appropriate local authorities. The emergency coordinator shall be available to help officials decide if local areas should be evacuated. The telephone numbers are: Fire Department (201) 991-1402 or 911; and Police Department:(201) 998-1313 or 911. [40 CFR 264.56(d)(1)]

44. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health or the environment, the emergency coordinator must immediately notify the New Jersey Department of Environmental Protection, Communication Center/Trenton Dispatch, Bureau of Communication and Response Services, at 1-877-WARN DEP (24 Hours). If the release, fire, or explosion could threaten human health and the environment outside the facility, the emergency coordinator shall also contact the government official designated as the on-scene coordinator for the area (in the applicable regional contingency plan under Title 40 Part 1510) or the National Response Center (using their twenty-four (24) hour toll free number) at 1-800-424-8802. [40 CFR 264.56(d)(2)]

Subject Item: PI 45910 -

45. When reporting an emergency to the required agencies, the emergency coordinator shall report: (a) name and telephone number of the reporter; (b) name and address of the facility; (c) time and type of incident (e.g. release, fire); (d) name and quantity of material(s) involved, to the extent known; (e) the extent of injuries, if any; and (f) the possible hazards to human health, or the environment, outside the facility. [40 CFR 264.56(d)(2)]

46. The permittee shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within fifteen (15) days after the incident, the permittee shall submit a written report on the incident to the Department. The report shall include, but not be limited to: (a) name, address, and telephone number of the permittee; (b) name, address, and telephone number of the facility; (c) date, time, and type of incident (e.g. fire, explosion); (d) name and quantity of material(s) involved; (e) the extent of injuries, if any; (f) an assessment of actual or potential hazards to human health or the environment, where this is applicable; and (g) an estimated quantity and disposition of recovered material that resulted from the incident. [40 CFR 264.56(j)]

47. The permittee must comply with the security procedures described in the facility's Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted and referenced in this permit.

48. The permittee shall prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of the facility. [40 CFR 264.14(a)]

49. A facility shall have a twenty-four (24) hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or an artificial or natural barrier which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility. [40 CFR 264.14(b)]

50. The permittee shall post a sign with the legend, "Danger - Unauthorized Personnel Keep Out", at each entrance to the active portion of a facility, and at other locations, in sufficient numbers to be seen from any approach to this active portion. The legend shall be written in English and in any other language prevalent in the area surrounding the facility and must be legible from a distance of at least twenty-five (25) feet. Existing signs with a legend other than "Danger - Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion, and that entry onto the active portion can be dangerous. [40 CFR 264.14(c)]

51. The permittee shall keep a written operating record at the facility in which the information required under 40 C.F.R. 264.73(b) shall be recorded. The information shall be recorded as it becomes available and maintained in the operating record until closure of the facility. [40 CFR 264.73]

52. The permittee shall have a detailed written cost estimate of closing the facility in accordance with 40 C.F.R. 264.142(a). [40 CFR 264.142(a)]

Subject Item: PI 45910 -

53. The permittee shall adjust the closure cost estimate for inflation within sixty (60) days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with 40 C.F.R. 264.143. If the permittee uses the financial test or corporate guarantee, the closure cost estimate shall be updated for inflation within thirty (30) days after the close of the firm's fiscal year and before submission of the updated information to the Department. The adjustment may be made by recalculating the maximum costs of closure in current dollars, or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its Survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate. Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor. [40 CFR 264.142(b)]

54. During the active life of the facility, the permittee shall revise the closure cost estimate no later than thirty (30) days after the Department has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in 40 C.F.R. 264.142(b). [40 CFR 264.142(c)]

55. The permittee shall keep at the facility, during the operating life of the facility, the latest closure cost estimate prepared in accordance with 40 C.F.R. 264.142(a) and (c) and, when this estimate has been adjusted in accordance with 40 C.F.R. 264.142(b), the latest adjusted closure cost estimate. [40 CFR 264.142(d)]

56. The permittee shall establish financial assurance for closure of the facility. The permittee shall use a financial assurance mechanism approved by the Department, from the options specified in paragraphs (a) through (f) of 40 C.F.R. 264.143. [40 CFR 264.143]

57. The wording of all financial documents (except for the insurance policy itself) that are submitted to comply with the requirements for financial assurance for closure must be as per 40 C.F.R. 264.151 with the changes specified at N.J.A.C. 7:26G-8.1(c)10. [40 CFR 264.143]

58. The permittee shall maintain financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility. The permittee shall have and maintain liability coverage for sudden occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million exclusive of legal defense costs. The permittee shall demonstrate financial responsibility for sudden accidental occurrences according to the mechanisms given in 40 C.F.R. 264.147 paragraphs (a)(1), (2), (3), (4), (5) or (6). [40 CFR 264.147(a)]

59. The wording of all financial documents (except for the insurance policy itself) that are submitted to comply with the liability coverage requirements must be as per 40 C.F.R. 264.151 with the changes specified at N.J.A.C. 7:26G-8.1(c)10. [40 CFR 264.147]

60. The permittee shall comply with all regulations of the Department of Environmental Protection and other State Statutes applicable to the facility. Regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register. [40 CFR 270.32(b)(2)]

Subject Item: PI 45910 -

61. All documents required to be submitted to the Department by this permit shall be submitted to the following agencies: New Jersey Department of Environmental Protection, Division of Solid and Hazardous Waste, Bureau of Recycling and Hazardous Waste Management, Mail Code: 401-02C, PO Box 420, Trenton, NJ 08625-0420; and New Jersey Department of Environmental Protection, Compliance and Enforcement, Bureau of Hazardous Waste & UST Compliance and Enforcement, Northern Regional Office, 7 Ridgedale Ave, Cedar Knolls, NJ 07927-1120. [40 CFR 270.32(b)(2)]

62. The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260 through 270, the conditions of this permit, and the permit application documents referenced in this permit. In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the Part B permit application documents. [40 CFR 270.32(b)(2)]

63. One complete set of the permit application documents referenced in this permit, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. [40 CFR 264.74(a)]

64. The permittee shall adhere to the provisions of the Waste Analysis Plan cited in this permit, and any subsequent revisions approved by the Solid and Hazardous Waste Management Program. No changes shall be made to the Waste Analysis Plan without prior written approval from the Solid and Hazardous Waste Management Program. [40 CFR 264.13(b)]

65. Each hazardous waste managed at this location shall be fully identified and classified in accordance with 40 C.F.R. 264.13. At a minimum, the permittee shall gather all of the information which must be known to manage the waste in accordance with the provisions of this permit, as well as to treat or dispose of the waste at an authorized facility. [40 CFR 264.13(a)]

66. Waste sampling and analysis shall be in accordance with the procedures outlined in the Waste Analysis Plan cited in this permit and shall employ equipment and methods as described in the latest edition of USEPA Manual SW-846 or as otherwise approved by the USEPA or the Department. All analyses performed to comply with the conditions of this permit shall be conducted by a laboratory that is certified by the Department to conduct the analysis. [40 CFR 264.13(b)]

67. The permittee shall maintain, in the written Operating Record required by this permit, records and results of all waste analyses performed. Such records and results shall be entered into the written Operating Record as they become available and shall be maintained until closure of the facility. [40 CFR 264.73(b)(3)]

68. All records and results of analyses conducted shall include an identification of the waste sampled, the name of the individual who collected the sample, the date, time, and location of sampling; the date analyses were performed; the name of the individual who performed the analysis; and the results for all test parameters analyzed. [40 CFR 264.73(b)(3)]

Subject Item: PI 45910 -

69. The permittee shall perform inspections in accordance with the referenced permit application documents and as follows: Internal communication equipment, the telephone system and site gates and gate locks shall be inspected weekly for proper operation; Protective clothing shall be inspected weekly for proper operation and supply; Site fencing, ladders, platforms, stairways and walkways shall be inspected weekly for corrosion or damage; Warning signs shall be inspected weekly for visiblity and damage; Fire extinguishers shall be inspected monthly for adequate pressure and charge; First aid equipment and supplies shall be inspected monthly for adequate supply and operation; Emergency equipment and supplies shall be inspected monthly for adequate supply and proper maintenance; Spill absorbent and overpack drums shall be inspected monthly for adequate supply; Electric motors, fire alarm systems and communications systems shall be inspected monthly for power, wear and wiring deterioration; and Fire hydrants shall be inspected annually for adequate pressure. [40 CFR 264.15(b)]

70. The permittee must record the inspections required by this permit in an inspection log or summary. Records of all the required inspections shall be maintained at the facility for a minimum of three (3) years. At a minimum, this log/summary must include the date and time of each inspection, the name of the inspectors, a notation of the observations made, and the date and nature of any repairs or other remedial actions performed. [40 CFR 264.15(d)]

71. The permittee shall remedy any deterioration or malfunction of equipment or structures revealed by the inspection on a schedule, which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action shall be taken immediately. [40 CFR 264.15(c)]

72. At the time of final closure, the permittee shall close the hazardous waste units authorized by this permit in accordance with 40 C.F.R. 264 Subpart G, the closure plan referenced in this permit, and the conditions of this permit. [40 CFR 264.111(c)]

73. The permittee shall keep a copy of the closure plan and all revisions to the plan at the facility until closure is completed. [40 CFR 264.112(a)]

74. The permittee shall amend the closure plan any time changes in operating plans or facility design affect the closure plan or whenever there is a change in the expected year of closure of the facility. The permittee must comply with the requirement cited at 40 C.F.R. 264.112(c)(3) for amendment of closure plan. [40 CFR 264.112(c)]

75. The permittee shall notify the Department at least forty-five (45) days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decrees or compliance order to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes. [40 CFR 264.112(d)]

76. The permittee shall not store or treat hazardous waste at any location at the facility other than those authorized by this permit. The permittee shall obtain prior approval from the Solid and Hazardous Waste Management Program to make any changes or alterations to the authorized activities in this permit. [40 CFR 270.32(b)]

Subject Item: PI 45910 -

77. The permittee shall perform the basic mandatory waste acceptance analyses on representative samples collected from incoming shipments of waste in accordance with the Waste Analysis Plan, including Table 5.3 (May 2011) as referenced in this permit. These analyses include, as applicable, the following: paint filter test, flash point, ignitability, BTU/gallon, percent chlorine, chlorine spot test, specific gravity, miscibility, pH, total organic carbon (aqueous waste only), chemical compatibility, and reactivity. Polychlorinated biphenyl (PCB) analysis shall also be performed on ignitable, combustible and organic wastes that are not 100% aqueous waste streams. The permittee shall base the decision to accept or reject the incoming waste shipment on a comparison of information obtained from analysis of the incoming waste shipment samples to the information obtained from the pre-acceptance waste analysis procedures required by this permit. When a waste shipment is found to be non-conforming, the permittee may comply with the requirements for acceptance of non-conforming waste found elsewhere in this permit. In the event that a representative sample of waste yields a PCB analysis greater than 50 ppm, except for non-regulated small capacitors, the permittee shall segregate the waste in the designated TSCA permitted storage areas, contact the generator regarding the discrepancy, and obtain the information required to properly store and dispose of the waste or, if necessary, return the waste to the generator. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264]

78. The permittee shall perform analyses on a representative sample of outgoing waste shipments on an as needed basis to satisfy the requirements of the ultimate storage, transfer, treatment or disposal facility authorized to receive such waste. [40 CFR 264.13]

79. For each outgoing shipment of waste initially accepted from off-site, or mixtures or residues generated by the permittee from the storage, transfer or treatment of waste accepted from off-site, the manifest shall include the identification number(s) assigned by the original off-site generators to the wastes included in the shipment or from which the waste mixture or residue was generated by the permittee, except: where the hazardous waste number assigned by the original generator was a characteristic code and the permittee has treated the waste to no longer exhibit said characteristic, then said characteristic number need not be included on the manifest, but shall instead be identified on a seperate sheet attached to the facility copy of the manifest which shall be kept on file at the facility; and where the hazardous waste number(s) assigned by the original off-site generator was incorrect and the permittee has determined the correct number(s) for the waste and has complied with the manifest discrepancy and unmanifested waste report requirements, then the correct hazardous waste number(s) shall be substituted for the incorrect hazardous waste number(s) originally assigned by the off-site generator. [40 CFR 270.32(b)]

80. For the purposes of classifying the waste and determining compliance with land disposal restrictions of 40 C.F.R. Part 268, the permittee shall collect samples from hazardous waste that has been treated by stabilization. All samples collected shall be analyzed for the parameters necessary to classify the waste and to determine compliance with the land disposal restrictions. A representative composite sample of each treatment batch shall be collected in accordance with the procedures detailed in Sections 3.0 through 3.6.4 of the document titled "Batch Sampling Procedures for Treated Hazardous Wastes" revised May 2011 in Appendix 5-6 of permit documents. Section 3.5 Reduced Batch Sampling Frequency Requirements for Continous Treatment Batches, which outlines reduced composite sampling frequencies for specific waste streams and circumstances, is also approved. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264.17, 40 CFR 264.177]

Subject Item: PI 45910 -

81. The permittee shall comply with the following waste analysis procedures for incoming wastes, except for lab packs and containers for transfer. Upon arrival of each waste shipment, the permittee shall perform a visual inspection of the incoming waste shipment and collect representative samples of the waste shipment. Samples shall be taken using a coliwasa or equivalent sampler for liquids or a stainless steel scoop for solids. For bulk shipments at least one sample shall be taken from each transport unit. Bulk shipment samples shall not be composited except for polychlorinated biphenyl (PCB) screening. For containerized shipments the permittee shall collect a separate representative sample for analysis in accordance with the waste analysis requirements of this permit from each container of each generator's waste stream as described on each manifest line item description with the exception of the following: for heterogeneous hazardous waste, composite samples may be collected from up to ten containers per composite sample; and for homogeneous hazardous waste, separate samples may be collected from as few as 20% of the containers or composite samples may be collected from up to 20 containers per composite sample. For multi-phase wastes, the permittee shall perform a separate series of analyses on each phase of waste to be subjected to a different activity. For multiple shipments of waste received during the same day, profiled under the same approval code number, generated from the same process(es) and where the waste constituents do not vary in type or quantity in significant amounts, only the first shipment received shall be sampled and analyzed. Subsequent shipments received on the same day shall be visually inspected and compared to the first shipment and the waste profile sheet to determine conformance with the approved waste stream. If found to be visually non-conforming each non-conforming shipment shall be sampled and analyzed. [40 CFR 264.13]

82. The permittee shall comply with the following pre-acceptance waste analysis procedures for wastes other than lab packs and containers for transfer. Prior to accepting any waste from off-site generators the permittee shall obtain a properly completed generator Waste Profile Sheet (WPS). The WPS shall contain all applicable information identified in the sample WPS form provided in the Waste Analysis Plan referenced in this permit. If the generator fails to provide all of the information requested on the forms listed in this permit that is necessary to safely and properly store, transfer, treat or dispose of the waste, the permittee shall contact the generator and obtain the necessary information to complete the forms. The permittee may make arrangements to accept the waste if a thorough evaluation of the information obtained indicates that the waste is one of the wastes the permittee is authorized by this permit to accept. [40 CFR 264.13]

83. The permittee shall comply with the following procedures for incoming shipments of waste lab packs and containers for transfer. Upon arrival of each waste shipment the permittee perform a visual inspection of the incoming waste shipment. The permittee's decision to accept or reject the incoming waste shipment shall be based on a comparison of the information obtained by inspection versus information obtained from the manifest and the pre-acceptance documentation obtained in accordance with this permit. When a waste is found to be non-conforming, the permittee shall comply with the procedures for acceptance of non-conforming wastes found elsewhere in this permit. [40 CFR 264.13]

Subject Item: PI 45910 -

84. Before processing any waste, the permittee shall test a representative sample of the waste to be processed for the parameters listed below: 1) Tank or container storage/treatment - compatibility; 2) Container repacking - pH, reactivity, ignitability and compatibility; 3) Consolidation - ignitability, reactivity and compatibility; 4) Solidification/stabilization - pH, reactivity, ignitability and compatibility; 5) Blending and bulking in containers or tanks - specific gravity, reactivity, ignitability, corrosivity, compatibility, pH, organic chlorine content, BTU content, bottom sediment, water content, type acid or base, and total organic cabon, if applicable; and 6) Filtering/screening - pH, reactivity, ignitability and compatibility. [40 CFR 264.13, 40 CFR 270.32(b), 40 CFR 264.17, 40 CFR 264.177]

85. The permittee is authorized to construct the proposed Rail Turnout for Track 2 in accordance with the requirements of this permit. The proposed Rail Turnout shall be constructed and installed as shown in the engineering drawing entitled "Diagram of Location of Proposed Rail Turnout for Track 2" referenced as Appedix 1-7 in the permit documents. Within thirty (30) days after completion of the construction, the permittee shall submit to the Department, by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the Rail Turnout for Track 2 has been constructed in compliance with the permit, as well as as-built drawings. The Department will inspect the Rail Turnout to determine whether or not it is in compliance with the layout and specification of the design plans set forth in the engineeering plans and reports. If within fifteen (15) days of the date of the submission of the permittee's aforementioned letter, the permittee has not received from the Department a notice of intent to inspect, prior inspection is waived and it is understood that the Rail Turnout meets the design requirements. If the Rail Turnout is found not to be in conformance with the approved design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection, outlining how the Rail Turnout will be brought into conformance. The schedule shall be subject to the Department's approval. The permittee shall not utilize the Rail Turnout for Track 2 for waste transportation until the Department approves the construction. [40 CFR 270.32(b)]

86. For wastes to be accepted for container transfer only, the permittee shall comply with the following pre-acceptance waste analysis procedures. The permittee shall obtain a completed generator Waste Profile Sheet (WPS) and any other supporting documents such as, but not limited to, a chemical waste packing list for lab packs. The permittee shall review the information on the WPS and any supporting documentation. If the waste stream(s) are all wastes which the permittee is authorized to accept then the permittee shall review the acceptability of the waste stream(s) at the potential authorized off-site treatment or disposal facilities. Such review shall include the permittee's knowledge of waste acceptability criteria of the potential ultimate facility and, if necessary, shall involve the submittal of the WPS and any supporting documentation to the potential ultimate facility for confirmation of the acceptability of the waste stream. Waste streams accepted for transfer need not be analyzed unless the permittee has reason to believe they are not as represented on the waste profile sheet, but shall undergo testing to meet acceptability criteria of the ultimate treatment or disposal facility, if necassary. The permittee shall only accept lab packs that are accompanied by a packing list that itemizes the individual containers within the lab pack. The permittee shall only accept lab packs that contain individual containers of laboratory chemicals that have been packed at the generator's site by the permittee's Quality Assurance Technicians and/or companies experienced in the identification, segregation and packing laboratory chemicals. The permittee shall require the generator of lab packs to properly identify or analyze the contents of individual containers within a lab pack that do not have the original manufacturer's label. [40 CFR 264.13]

Subject Item: PI 45910 -

87. During implementation of the waste analysis procedures required by this permit, if the permittee finds a waste to be non-conforming, the permittee may accept the waste if it appears to be other than the quantity and waste type described on the manifest provided performance of the pre-acceptance waste analysis procedures required by the permit indicates that the permittee is authorized to accept such waste and thereafter the permittee complies with 40 C.F.R. 264.72. [40 CFR 264.13]

88. The permitee shall adhere to the following regarding rejection of unauthorized waste shipments: 1. the permittee shall accept only waste that the facility is authorized to accept; and 2. the permittee, if offered hazardous waste which the facility is not authorized to handle, shall not accept the waste from the hauler and shall follow the applicable requirements and instructions found at 40 CFR 264.71, 264.72, and Appendix to Part 262 - Uniform Hazardous Waste Manifest and Instructions, as deemed necessary for rejection. [40 CFR 270.32(b)]

89. For lab pack containers to be accepted for processing, the permittee shall comply with the following pre-acceptance waste analysis procedures. The permittee shall obtain a waste profile sheet (WPS), a chemical waste packing list, and any supporting documentaion in accordance with this permit. The packing list for each lab pack shall list the specific names of all laboratory chemical bottles, jars, jugs, etc. in that lab pack container. The permittee shall review the information on the WPS, packing list and any supporting documentation. If the labortory chemicals are all wastes that the permittee is authorized to accept for on-site processing, the permittee may contract with the generator for the shipment of the waste. Lab pack chemicals in their original containers and bearing original labels need not be analyzed unless the permittee has reason to believe that they are not as represented on the waste profile sheet. If the individual bottles, jars, jugs, etc. are to be removed from the lab pack containers, opened, and blended or bulked with other wastes, then the permittee shall confirm the compatibility of the wastes prior to commencing such blending or bulking by performing the compatibility test identified in the Waste Analysis Plan referenced in this permit. [40 CFR 264.13]

90. The permittee shall not exceed a hazardous waste storage volume of 249,500 gallons or its equivalent volume at any one time. [40 CFR 270.32(b)]

Subject Item: PI 45910 -

91. PCB waste shall be managed in accordance with all applicable Toxic Substance Control Act (TSCA) regulations at 40 CFR Part 761 and as follows:

1. Non-leaking and non-regulated PCB and/or light ballast may be repackaged into other containers for transportation efficiency;

2. PCB articles shall remain in the form as received at the facility;

3. Non-liquid PCB waste in the Containment Building may be transferred or consolidated into another container or rail car;

4. All other PCB waste shall be stored or transferred in their original containers;

5. Non-liquid or semi-solid PCB waste (ie. sludges and slurries) that is also hazardous waste may be solidified/stabilize in the CBU for shipment to another authorized facility for treatment or disposal; and

6. PCB shall only be managed in the following areas: Container storage Area A and C; the QC dock; the East Pad of the QC dock; and the Containment Building. [40 CFR 270.32((b))]

Subject Item: HWSG762507 - Containment building

92. The permittee shall operate the Containment Building in a fashion that ensures that waste will not come in contact with door or window openings. [40 CFR 264.1101(a)(2)(ii)]

93. Solidification/stabilization shall take place as provided herein. For stabilization in cells: the permittee shall empty the waste to be solidified/stabilized from containers into any of the four cells in the Containment Building. The permittee shall introduce approved reagent listed in Table 4-3 into the waste to be solidified/stabilized by the use of equipment authorized by the Department, as described in the application documents and engineering designs referenced in this permit. The permittee shall mix the waste and approved reagent listed in Table 4-3 with a backhoe, front end loader or other equipment authorized by the Department. The permittee shall place the solidified/stabilized waste in appropriate DOT shipping containers, including: roll-offs, dump trailers, gondolas, or intermodal containers, in any area authorized by this permit for storage or transfer pending shipment to off-site authorized facilities. For solidification/stablization in containers, the process shall be performed in containers of up to 110 gallons or roll-off containers up to 40 cubic yard capacity. An approved solidification/stabilization agent listed on Table 4-3 shall be added to the top of the container with a hand scoop or other similar equipment to absorb any free liquids, if necessary. Filled containers shall be resealed, labeled, and stored in any area authorized by this permit for storage or transfer pending shipment to off-site authorized facilities. If the solidifed/stabilized waste is destined for incineration or thermal treatment, the untreated waste can be transferred, prior to solidification/stabilization, to an incinerable container that meets the specification of the off-site destination facility. [40 CFR 270.32(b)]

Subject Item: HWSG762507 - Containment building

94. The permittee shall take measures to prevent the tracking of waste out of the Containment Building by personnel or equipment used in handling the waste. An area must be designated to decontaminate equipment and any rinsate must be collected and properly managed. The permittee is authorized to treat the rinsate through solidification in the Containment Building as detailed in permit application documents referenced in this permit. [40 CFR 264.1101(c)(1)(iii)]

95. Within 90 days after receiving the final volume of waste at the Containment Building, the permittee must remove all waste from the Containment Building and ship the waste to an authorized facility. [40 CFR 264.113(a)]

96. The permittee is authorized to use the Containment Building to manage solid, sludges or slurry wastes identified with the following hazardous waste numbers: D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161,K169, K170, K171, and K172. The permittee is prohibited from managing D003 that is not reactive sulfide wastes and D001waste in the Containment Building. The permittee may manage ID 27, ID 27A, and ID 72 wastes in the Containment Building pursuant to the permitee's Solid Waste Permit and provided the decontamination procedures, outlined in section 4.3.2.5 of the approve application documents, are followed. [40 CFR 270.32(b)]

97. The permittee shall inspect and record in the facility's operating record, at least once every seven (7) days, data gathered from monitoring equipment and leak detection equipment, as well as the Containment Building and area immediately surrounding the Containment Building, to detect signs of releases of waste. The permittee shall conduct inspections of the following activity/equipment as outlined below: Lighting for proper operation; Primary and Secondary Inspection Sumps for accumulated liquids; Process Floor (visible areas), Joints (visible areas), Secondary Containment and Push Walls, Building Walls, Columns and Supports for significant cracks, gaps, corrosion or other deterioration that could cause waste to be released; Air Pollution Control and Ventilation System for proper operation; General Exterior for signs of release of hazardous waste; and Doors, Windows, Vents and Cracks for visible emissions in accordance with 40 C.F.R. Part 60, Appendix A, Method 22. [40 CFR 264.1101(c)(4), 40 CFR 270.32(b), 40 CFR 264.73]

98. The permittee shall take measures to control fugitive dust emissions such that any openings (doors, windows, vents, cracks, etc.) exhibit no visible emissions (see 40 C.F.R. Part 60, Appendix A, Method 22 - Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares). In addition, all associated particulate collection devices shall be operated and maintained with sound air pollution control practices (see 40 C.F.R. Part 60 Subpart 292). This state of no visible emissions must be maintained effectively at all times during routine operating and maintenance conditions, including when vehicles and personnel are entering and exiting the Containment Building. [40 CFR 264.1101(c)(1)(iv)]

99. The permittee is prohibited from storing, treating or transferring uncontainerized liquid or semi-liquid waste in the Containment Building or in the truck loading/unloading bay of the Containment Building. [40 CFR 270.32(b)]

100. The permittee shall use controls and practices to ensure containment of the waste within the Containment Building. [40 CFR 264.1101(c)(1)]

Subject Item: HWSG762507 - Containment building

101. The permittee is authorized to utilize the Containment Building to treat, store and transfer hazardous wastes authorized by this permit, with the exception of D001 waste and D003 waste that are not reactive sulfide wastes. Authorized activities include repackaging of non-lab pack waste; solidification/stabilization with approved reagents listed in Table 4-3, filtration, consolidation, decanting, and blending & bulking of waste. The permittee shall operate and maintain the Containment Building in accordance with the application documents and engineering designs referenced in this permit. The maximum hazardous waste capacities of the storage/treatment areas in the Containment Building shall be as follows: Cell 1 - 402 cubic yards; Cells 2, 3 and 4 - 195 cubic yards (each); and the Process Floor - 453 cubic yards. Non-liquid PCB waste may be transferred or consolidate into another container or rail car in this area, while all PCB waste shall be managed as outlined by this permit. [40 CFR 270.32(b)]

102. The permittee shall maintain the primary barrier to be free of significant cracks, gaps, corrosion, or other deterioration that could cause waste to be released from the primary barrier. [40 CFR 264.1101(c)(1)(i)]

103. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The permittee shall retain the equipment and structures that required decontamination on-site until the permittee has received a written determination from the Department that the decontamination levels specified in the closure plan have been achieved and the analytical results are acceptable to the Department, unless the permittee decides to dispose of the equipment and structures as hazardous waste. [40 CFR 264.115]

104. Within 180 day after receiving the final volume of waste at the Containment Building, if decontamination has been performed, the permittee must complete decontamination verification procedures for the area. Decontamination shall consist of collecting final wash water and wash water blank samples and testing them for the parameters listed in Table 9-1: Decontamination Verification Samples; Locations, Number and Type included in the referenced permit application documents. Decontamination methods shall be repeated until the concentrations of the rinse water test parameters are equal to the amount present in the wash water blank. [40 CFR 264.1102(a)]

105. The permittee is authorized to store, treat, or transfer sludges and slurries only in the areas of the Containment Building which meet the requirements of 40 CFR 264.1101(b). [40 CFR 270.32(b)]

106. Within 60 days of completion of closure of the Containment Building, the permittee shall submit to the Department by registered mail a report of closure activities. The report shall include a certification that the Containment Building has been closed in accordance with the the specifications in the approved closure plan and the requirments of this permit. The certification must be signed by the permittee and signed and sealed by an independent professional engineer registered in the State of New Jersey. The report shall also include supporting documentation. The Department will review the report, including the decontamination verification and soil sampling data, and conduct an inspection of the Containment Building. If the Department determines that the Containment Building was clean closed, the Department will accept the closure certification and closure will be deemed complete. [40 CFR 264.115]

107. The permittee shall maintain the stored/treated waste within the containment walls of the Containment Building by ensuring that the peak of the pile shall not exceed the height of any containment wall intended to contain it. [40 CFR 264.1101(c)(1)(ii)]

Subject Item: HWSG762507 - Containment building

108. If the permittee detects a condition that could lead to or has caused a release of waste, the permittee must repair the condition promptly, in accordance with the following procedures. Upon detection of a condition that has lead to the release of waste, the permittee shall: enter a record of the discovery in the facility operating record; immediately remove the portion of the Containment Building affected by the condition from service; determine what steps must be taken to repair the Containment Building; remove any leakage from the secondary collection system and establish a schedule for accomplishing the cleanup and repairs; within seven (7) working days after the discovery of the condition, notify the Department of the condition; and within fourteen (14) working days, provide a written notice to the Department with a description of the steps taken to repair the Containment Building, and the schedule for accomplishing the work. The Department will review the information submitted, make a determination regarding whether the Containment Building must be removed from service completely or partially until repairs and cleanup are complete, and notify the permittee of the determination and underlying rationale in writing. Upon completing all repairs and cleanup, the permittee must notify the Department in writing and provide a verifcation, signed by a qualified professional engineer registered in the State of New Jersey, that the repairs and cleanup have been completed according to the written plan. [40 CFR 264.1101(c)(3)]

109. Within 180 days after receiving the final volume of waste at the Containment Building, the permittee shall conduct soil sampling around the Containment Building in accordance with the approved closure plan. Soil sampling shall not be conducted prior to the removal of all waste from the unit. The permittee shall notify the Department in writing at least forty two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the sampling episode. Soil sampling analytical results shall be submitted to the Department either prior to or with the closure report. [40 CFR 264.1102(a)]

110. Within 180 days after receiving the final volume of waste at the Containment Building, the permittee must remove or decontaminate all waste residues, contaminated system components (liner, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste unless 40 C.F.R. 261.3(d) applies. Decontamination shall take the form of washing with detergent and water at high pressure. [40 CFR 264.1102(a)]

111. The permittee shall not place incompatible hazardous waste or treatment reagents into the Containment Building or its secondary containment system if they could cause the unit or secondary containment system to leak, corrode, or otherwise fail. [40 CFR 264.1101(a)(3)]

112. The permittee shall take measures to prevent the release of liquids or wet materials into areas without secondary containment. [40 CFR 264.1101(d)(2)]

113. The permittee is authorized to utilize the following equipment for the solidification/stabilization of wastes: back hoe; fork lift; drum grappler; front end loader; leak proof roll-offs; leak proof dump trailers; leak proof intermodal containers; concrete cells 1, 2, 3 and 4; approve reagent listed in Table 4-3; and screening equipment. The permittee may add or delete equipment from the above list provided the permittee has given the Department, at the address listed in this permit, written notification of such addition(s) or deletions(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]

Subject Item: HWSG762507 - Containment building

114. The permittee is authorized to consolidate compatible waste from containers into roll offs, rail cars (including gondolas), dump trucks, or dump trailers; place in storage cells; or place in the processing area of the building. Only bulk wastes that are not D001 or D003 waste shall be consolidated in roll offs. Before consolidating waste, the permittee shall test a representative sample of the waste in accordance with the Waste Analysis Plan. [40 CFR 270.32((b))]

115. If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment, the permittee finds that not all contaminated subsoils can be practicably removed or remediated in accordance with requirement 104, the permittee must close the Containment Building and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills (40 C.F.R. 264.310). In addition, for the purposes of closure, post-closure, and financial responsibility, the Containment Building will then be considered to be a landfill, and the permittee must meet all of the requirements for landfills specified in 40 C.F.R. Part 264 Subparts G and H. [40 CFR 264.1102(b)]

116. All surfaces of the Containment Building to be in contact with waste shall be chemically compatible with those wastes. [40 CFR 264.1101(a)(2)]

117. Within 180 days after receiving the final volume of waste at the Containment Building, if decontamination has been performed, the permittee shall collect all residues generated during decontamination of the Containment Building and its components and ship these residues off-site to a faciltiy authorized to manage such waste. [40 CFR 264.114]

118. Upon closure of the CBU, soil contamination shall be addressed in accordance with the Department's Technical Requirements for Site Remediation, N.J.A.C. 7:26E, including the requirements for remediation of historic fill as defined in those rules. Contamination resulting from the permittee's operation, if any, shall be addressed and remediated by the permittee as part of the closure of the CBU. [40 CFR 270.32(b)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

119. The permittee is authorized to store and/or treat hazardous waste authorized by this permit in tank systems ST-4 and ST-5. Treatment shall be limited to blending, bulking, filtration, and decanting. Each tank shall have a maximum capacity of 7,500 gallons. Both tanks are 10 feet in diameter, 20 feet high, vertical, aboveground, and constructed of carbon steel. Both tanks are located in the Tank Farm. [40 CFR 270.32(b)(1), 40 CFR 264.13, 40 CFR 264.197]

120. The permittee shall design, construct, operate, and maintain each tank system in accordance with the application documents referenced in this permit. [40 CFR 270.32(b)(1)]

121. Each secondary containment system must be designed, installed, and operated to prevent migration of waste or accumulated liquid out of the system to the soil, ground water, or surface water at any time during use of the tank system. [40 CFR 264.193(b)(1)]

122. Spilled or leaked waste and accumulated precipitation must be removed from the secondary containment system within 24 hours, or in as timely a manner as is possible to prevent harm to human health and the environment, if the permittee can demonstrate to the Department that removal of the released waste or accumulated precipitation cannot be accomplished within 24 hours. [40 CFR 264.193(c)(4)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

123. Each secondary containment system must be maintained free of cracks and gaps. [40 CFR 264.193(e)(1)(iii)]

124. The permittee must not place hazardous wastes or treatment reagents in a tank system if they could cause the tank, its ancillary equipment, or the secondary containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a)]

125. The permittee must comply with the requirements of 40 C.F.R. 264.196 if a leak or spill occurs in a tank system. [40 CFR 264.194(c)]

126. The permittee must not place ignitable or reactive waste in a tank system unless the permittee complies with 40 C.F.R. 264.198. [40 CFR 264.198]

127. The permittee must not place incompatible wastes, or incompatible wastes and other materials, in the same tank system, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.199(a)]

128. The permittee must not place hazardous waste in a tank system that has not been decontaminated if the tank system previously held an incompatible waste or material, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.199(b)]

129. The permittee shall manage all hazardous waste placed in a tank system in accordance with the applicable requirements of Subparts AA, BB, and CC of 40 C.F.R. Part 264. [40 CFR 264.200]

130. The permittee shall inspect the following items at least once each operating day: Tank Shells for corrosion, wet seams, bulges, rivets or welds; Tank Supports for corrosion and deterioration; Overfill Prevention Controls for deterioration, damage, and function; Spill Prevention Controls for deterioration, leaks, damage, and function; Tank Ancillary Equipment for deterioration, leaks, damage, and function; Containment System for erosion, wet spots, cracks, gaps, uneven settlement, spalling, spills, and precipitation; Tank Labels and Warning Signs for visibility; and Emergency Equipment for function and unobstructed availability. The permittee shall inspect the following items at least once each month: Tank High Level Alarms for proper operation and maintenance; Tank High Level Automatic Fee Cut-Off Devices for proper operation and maintenance; and Tank Guages for proper operation and maintenance. [40 CFR 264.195]

131. Within ninety (90) days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall remove all hazardous waste from the tanks and manifest such waste to an off-site authorized facility. [40 CFR 264.113(a)]

132. Within 180 days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall complete decontamination of the tanks, their ancillary equipment, and their secondary containment systems. Decontamination procedures shall include power washing with detergent/water. [40 CFR 264.197(a)]

133. Within one hundred eighty (180) days after receiving the final volume of hazardous waste at the tank system, the permittee shall collect all residues generated from the decontamination of the tank system components and ship the material off-site to a facility authorized to manage such waste. [40 CFR 264.197(a)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

134. Within 180 days after receiving the final volume of hazardous waste at a hazardous waste tank system, the permittee shall complete decontamination verification procedures for the tanks, their ancillary equipment and secondary containment systems. Decontamination verification shall consist of collecting samples of the final wash water from the decontamination of the secondary containment units, the tanks, and all tank appurtenances and a wash water blank and analyzing the samples for the parameters listed in Table 5.1 of the Facility Closure Decontamination Sampling Plan referenced in this permit. Decontamination methods shall be repeated until the concentrations of the final waste water test parameters are equal to the amount present in a wash water blank. [40 CFR 264.197(a)]

135. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The Department will review the results and notify the facility if additional decontamination procedures are required. The permittee shall not remove any equipment or structures requiring decontamination from the site until the Department has made a determination that decontamination was adequate. [40 CFR 264.115]

136. Within sixty (60) days of completion of closure of a hazardous waste tank system, the permitte shall submit to the Department, by registered mail, a report of closure activities. The report shall include a certification that the tank system has been closed in accordance with the specifications of the approved closure plan and this permit and supporting documentation. The certification must be signed by the facility and by an independent registered professional engineer licensed by the State of New Jersey. The Department will review the report and perform an inspection of the facility. Based on the review of the report and the results of the inspection, the Department will notify the facility of the acceptability of the closure certification and of any additional activities which may be required. [40 CFR 264.115]

137. Every day the facility is in operation the permittee shall record in an inspection log or summary the volume of any tank used for the storage of hazardous waste. The permittee shall place the inspection log or summary record of the tank storage volume into the operating record of the facility. [40 CFR 264, 40 CFR 270.32(b), 40 CFR 264.73]

138. Within one year of the issuance of this permit, the permittee shall construct the containment area for the replacement/relocation of Tanks ST4 and ST-5, in accordance with the design and location in drawing CENJ-06 entitled "New Containment Area Foundation Plan Sections and Details." [40 CFR 270.32(b)]

139. The permittee shall operate and maintain the tank decanting process in accordance with the permit application documents and the engineering designs referenced in this permit. Before decanting any waste, the permittee shall test a representative sample of the waste to be decanted in accordance with the Waste Analysis and Quality Assurance requirements of this permit. The permittee shall decant liquid waste from tanks authorized by this permit by pumping, vacuuming, gravity or other equivalent methods; and the permittee shall perform the decanting of liquid waste and subsequent transfer of such waste within the storage, transfer, and treatment areas authorized by this permit. [40 CFR 270.32(b)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

140. The permittee is authorized to use ST-4 and ST-5 to conduct blending, bulking, decanting, filtration, and storage of organic solvent/aqueous wastes idenified with the following hazardous waste numbers: D001, D002, D004 through D043, F001 through F012, F019, F024, F025, F032, F034, F035, F037, F038, F039, K001 through K011, K013, K014, K015 through K030, K035, K036, K042, K044, K046, K048 through K052, K060, K061, K062,, K079, K081, K083 through K088, K093 through K096, K100 through K105, K156 through K161, P001, P006, P022, P028, P029, P030, P050, P053, P055, P064, P074, P098, P105, P106, P120, P127, P128, P185, P188 through P192, P194, P196 through P199, P201 through P205, U001 through U012, U014 through U027, U028 through U031, U034 through U039, U041 through U053, U055 through U064, U066 through U099, U101, U102, U103, U105 through U134, U136, U137, U139, U140 through U159, U161 through U174, U177, U179 through U189, U190 through U194, U197, U200 through U228, U230 through U235, U237, U239, U240, U242, U243, U244, U246, U247, U248, U249, U271, U272, U277 through U280, U328, U353, U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. The permittee is authorized to manage ID 72 waste in ST-4 and ST-5 pursuant to the permitee's Solid Waste Permit and provided the decontamination proceedures, outlined in section 3.1 of the approved application document, are followed. [40 CFR 270.32(b)]

141. The permittee shall operate and maintain the blending and bulking treatment process in accordance with the permit application documents and engineering designs referenced in this permit and as follows. Before treating any waste, the permittee shall test a representative sample of the waste to be treated in accordance with the Waste Analysis and Quality Assurance requirements of this permit. Waste derived fuels and other wastes resulting from the treatment process shall be managed in accordance with the requirements of this permit until shipped off-site to facilities authorized to receive these wastes. The permittee is authorized to utilize the following equipment in the blending and bulking treatment process: Tanks ST-4 and ST-5; a set of filter screens; liquid transfer pumps with explosion proof motors; assorted transfer hoses; grounding lines; one 12' x 4' x 4' screen filter box; one 5.83' x 4' x 3' screen filter box; and one in-line dispersing grinder with explosion proof motor. The permittee may add or delete equipment from the above list provided the permittee has given the Department written notification of such addition(s) or deletions(s), and the permittee has received written approval from the Department. [40 CFR 270.32(b)]

142. Within 180 days after receiving the final volume of hazardous waste at a tank system, the permittee shall conduct soil sampling around the tank in accordance with the approved closure plan. Soil sampling shall not be conducted prior to the removal of all hazardous waste from the unit. The permittee shall notify the Department in writing at least forty-two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the sampling episode. Soil sampling analytical results shall be submitted to the Department either prior to or with the closure report. [40 CFR 264.1102(a)]

143. The permittee is authorized to use ST-4 and ST-5 to conduct blending, bulking, decanting, filtration, and storage of aqueous wastes identified with the following hazardous waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 Through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, and K156 through K161. [40 CFR 270.32(b)]

Subject Item: HWSG785088 - Hazardous Waste Storage Tanks ST-4 and ST-5

144. The permittee is authorized to replace/relocate tanks ST-4 and ST-5 for installation in the new containment area. Replacement tanks shall be of equivalent capacity.

For replacement of ST-4 and ST-5, the permittee shall submit, within 1 year of issuance of this permit, design plans for 2 new hazardous waste tanks. Within 1 year of approval of the new hazardous waste tank design, the permittee shall complete the installation. Within 30 days of completion of the installation, the permittee shall submit to the Department by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the tanks and containment area have been installed in compliance with the approved design drawings and permit.

For relocation of ST-4 and ST-5, the permitee must submit to the Department, within 30 days after completion of the installation and by certified mail or hand delivery, a letter signed by the permittee and a licensed professional engineer registered in the State of New Jersey, stating that the tanks and containment area have been installed in accordance with the permit.

Upon receiving the letter regarding the tank replacement/relocation, the Department will inspect the tanks for compliance with the layout and specification of the design plans set forth in the engineering plans and reports. If within 15 days of the date of the submission of the permittee's letter, the permittee has not received from the Department a notice of intent to inspect, prior inspection is waived, and it is understood that the tanks meet the design requirements. If the tanks are not in conformance, a schedule for Department approval will be submitted within 30 days of the Department's inspection, outlining how the tanks will be brought into comformation. The tanks shall not be used for hazardous waste management until the Department approves the installation. [40 CFR 270.32((b))]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

145. The permittee is authorized to store, treat and/or transfer wastes authorized by this permit in the following existing container storage areas with the following maximum capacity:

Container Storage Area	Maximum Capacity
A	48,000 gallons
B	21,560 gallons
C	17,600 gallons
D	10,560 gallons
E	19,500 gallons
F	20,625 gallons
G	48,000 gallons
Main Processing Pad & Loading/Unloading Dock	80,000 gallons
East Pad of the QC Dock	20,000 gallons
West Pad of the QC Dock	60,000 gallons
QC Dock	11,500 gallons
Tank Farm Loading/Unloading Pad	30,879 gallons
Hockmeyer Area	24,640 gallons

The total maximum capacity for these 13 container storage areas is 412,864 gallons. [40 CFR 270.32(b)]

146. The permittee shall design, construct, operate and maintain each container storage area in accordance with the application documents referenced in this permit. [40 CFR 264]

147. If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects, etc.) or if it begins to leak, the permittee must transfer the hazardous waste from this container to a container that is in good condition. [40 CFR 264.171]

148. The permittee must use a container made of or lined with materials, which will not react with and are otherwise compatible with the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. [40 CFR 264.172]

149. A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. [40 CFR 264.173(a)]

150. A container holding hazardous waste must not be opened, handled, or stored in a manner that may rupture the container or cause it to leak. [40 CFR 264.173(b)]

151. Each containment system must have a base underlying the containers that is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed. [40 CFR 264.175(b)(1)]

152. The permittee must remove spilled or leaked waste and accumulated precipitation from each containment system in as timely a manner as is necessary to prevent overflow of the collection system. [40 CFR 264.175(b)(5)]

153. The permittee must not place incompatible wastes, or incompatible wastes and other materials, in the same container, unless the permittee complies with 40 C.F.R. 264.17(b). [40 CFR 264.177(a)]

154. The permittee must not place waste in an unwashed container that previously held an incompatible waste or material. [40 CFR 264.177(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

155. A storage container holding waste that is incompatible with any waste or other material stored nearby must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device. [40 CFR 264.177(c)(1)]

156. The permittee shall manage all hazardous waste placed in a container in accordance with the applicable requirements of Subparts AA, BB, and CC of 40 C.F.R. Part 264. [40 CFR 264.179]

157. The permittee shall inspect each container storage/treatment area on a weekly basis for the following: all containers securely closed; any leaking containers; any containers swollen or bulged; any containers concaved due to internal vacuum build up; any containers with corrosion; all containers properly labeled and identified; all containers compatible with the waste stored in them; adequate aisle space; and all containers supported above any standing liquids. Containers shall be properly labeled as follows: containers in-transit shall be labeled and marked in accordance with the applicable US Department of Transportation regulations at 49 CFR part 172; containers of hazrdous waste generated on-site by Clean Earth shall be clearly marked with the words "Hazardous Waste" and the date upon which the accumulation period begins in accordance with 40 CFR 262.34(a); and all other containers shall be clearly marked to identify its contents and the date upon which the accumulation period begins. [40 CFR 264.174]

158. Within 90 days after receiving the final volume of waste at a hazardous waste container storage area(s), the permittee must remove all waste from the area(s) and ship the waste to an authorized facility. [40 CFR 264.113(a)]

159. Within one hundred eighty (180) days after receiving the final volume of waste at a hazardous waste container storage area, the permittee must complete decontamination of the area. Decontamination procedures shall include washing the containment system with water and detergent at high pressure. [40 CFR 264.178]

160. Within one hundred eighty (180) days after receiving the final volume of waste at the container storage area, the permittee shall collect all residues generated from the decontamination of the container storage area and ship the material off-site to a facility authorized to manage such waste. [40 CFR 264.178]

161. Within one hundred eighty (180) days after receiving the final volume of waste at a hazardous waste container storage area, the permittee must complete decontamination verification procedures for the area. Decontamination verification shall consist of sampling and testing the final rinse water from the hazardous waste container storage area and a wash water blank for the parameters listed in Table 9.1 "Decontamination Verification Samples; Location, Number and Type" as referenced in this permit. Decontaimation methods shall be repeated until the concentrations of the rinse water test parameters are equal to the amount present in a wash water blank. [40 CFR 264.178]

162. The permittee shall submit to the Department, either prior to or with the closure report, the results of the decontamination verification procedures. The Department will review the results and notify the facility if additional decontamination procedures are required. The permittee shall not remove any equipment or structures requiring decontamination from the site until the Department has made a determination that decontamination was adequate. [40 CFR 264.115]

163. The permittee shall maintain a minimum aisle space of 18 inches between double rows of containers. Containers smaller than 110 gallons shall be stacked no higher than the equivalent of two 110 gallon containers, while 110 gallon containers shall be stacked no greater than two high. Containers greater than 110 gallons shall not be stacked. [40 CFR 264.35]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

164. The permittee shall not locate containers holding ignitable or reactive waste within 50 feet of the facility's property boundary. [40 CFR 264.176]

165. Within 180 days of receiving the final volume of waste at a container storage area, the permittee shall perform closure soil sampling around the area in accordance with the Revised Soil Sampling and Analytical Closure Plan referenced in this permit. Soil sampling shall not be conducted prior to the removal of all hazardous waste from the units. The permittee shall notify in writing the Department at the address listed in this permit at least forty two (42) calendar days prior to initiation of soil sampling so that an auditor from the Department can be present during the soil sampling episode. Soil sampling analytical results shall be submitted for the Department's review either prior to or with the closure report. [40 CFR 270.32(b)]

166. The permittee is authorized to operate as a transfer station for containerized waste authorized by this permit. Containers accepted for transfer shall not be opened by the permittee except for inspection, sampling or analysis in accordance with the waste analysis requirements of this permit, repackaging of the contents of the container as authorized by this permit, or repackaging of a damaged container. [40 CFR 270.32(b)]

167. The permittee is authorized to conduct consolidation, storage, decanting, staging, transfer, loading/unloading, screening and vehicle staging for solid, sludges or slurry wastes identified with the following waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171 and K172. [40 CFR 270.32(b)]

168. The permittee is authorized to operate a process for the repackaging of containers of solid and semi-solid wastes authorized by this permit in accordance with the permit application documents and engineering designs referenced in this permit. Repackaging of waste from one container to another new or replacement container may occur at any of the hazardous waste storage areas. Repackaging of waste from a single container to more than one container shall only occur at: the Main Processing Pad & Loading/Unloading Dock Area; Tank Farm Loading/Unloading Pad; the CBU; Storage Areas C and F. Before repackaging a waste, the pemittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. Once repackaged, the containers shall be placed in an authorized container storage area pending shipment to an authorized off-site facility. [40 CFR 270.32(b)]

169. The permittee is authorized to operate a treatment process for the consolidation of the compatible contents of containers of waste authorized by this permit. The permittee shall consolidate waste only at Main Processing Pad & Loading/Unloading Dock; Tank Farm Loading/Unloading Pad; Container Storage Area B; Container Storage Area C; and covered area of Container Storage Area F. Before consolidating any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The permittee shall consolidate waste from containers into rolloffs for transfer to the Containment Building or for bulk shipment to an authorized off-site facility. The permittee is authorized to consolidate bulk wastes into rolloffs wastes authorized by this permit, with the exception of D001 and D003 waste as defined at 40 C.F.R. 261.21 and 261.23. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

170. The permittee is authorized to conduct blending, bulking, decanting, storage, staging, transfer, filtration, loading/unloading and vehicle staging for organic solvent/aqueous wastes identified with the following waste numbers: D001, D002, D004 through D043, F001 through F009, F010, F011, F012, F019, F024, F025, F032, F034, F035, F037, F038, F039, K001 through K011, K013, K014, K015 through K030, K035, K036, K042, K044, K046, K048 through K052, K060, K061, K062, K079, K081, K083 through K088, K093 through K096, K100 through K105, K156 through K161, K169, K170, K171 and K172, P001, P006, P022, P028, P029, P030, P050, P053, P055, P064, P074, P098, P105, P106, P120, P127, P128, P185, P188 through P192, P194, P196 through P199, P201 through P205, U001 through U012, U014 through U027, U028 through U031, U034 through U039, U041 through U053, U055 through U064, U066 through U099, U101, U102, U103, U105 through U134, U136, U137, U139, U140 through U159, U161 through U174, U177, U179 through U189, U190 through U194, U197, U200 through U228, U230 through U235, U237, U239, U240, U242, U243, U244, U246, U247, U248, U249, U271, U272, U277 through U280, U328, U353, U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. [40 CFR 270.32(b)]

171. At the East Pad of the QC dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of this area shall be limited to a maximum of 20,000 gallons. Individual tanker containers shall not be larger than 7,000 gallons. Rolloff containers shall not be larger than 40 cubic yards. Non-rolloff containers shall not be larger than 300 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack (one container to a new or replacement container only) waste is authorized in this area. [40 CFR 270.32(b)]

172. The permittee is authorized to stage vehicles containing waste for parking or loading/unloading in the existing hazardous waste management areas listed below. The permittee shall place all incoming shipments into a treatment or storage area authorized by this permit by the same time of day that the waste shipment originally entered the facility property on the next operating day of the facility. The permittee shall remove from the facility property or place into a storage or treatment area authorized by this permit all outgoing waste shipments within 24 hours (or next operating day following a weekend or holiday) of the time the waste shipment was originally removed from a storage or treatment area authorized by this permit and placed into a vehicle staging or loading/unloading area authorized by this permit. Waste staged for the purpose of parking or loading/unloading shall not count toward the permitted waste container storage capacities authorized by this permit until the time limits specified above have been exceeded. The permittee shall operate and maintain the vehicle staging and loading/unloading areas in accordance with the application documents referenced in this permit. Vehicles containing hazardous wastes shall only be staged at the following locations as identified on the application documents: Tank Farm Loading/Unloading Pad; West Pad of the QC Dock; East Pad of the QC Dock; Main Processing Pad & Loading/Unloading Dock; and the Containment Building. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

173. The permittee is authorized to conduct solidification/stabilization with approved reagents listed on Table 4-3, staging, transfer, storage, decanting, consolidation, screening, loading/unloading and vehicle staging for solid, sludge or slurry wastes identified with the following waste numbers: All "D" hazardous waste listed at 40 C.F.R. 261.21 through 261.24, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171, and K172. [40 CFR 270.32(b)]

174. At the West Pad of the QC dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of this area shall be limited to a maximum of 60,000 gallons. Individual Tankers shall not be larger than 6,000 gallons; all other continer types shall not be larger than 30 cubic yards. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]

175. The permittee shall record, in an inspection log or summary, the internal tracking of containers of hazardous waste that have been rejected by the ultimate treatment, storage or disposal facility and subsequently returned to the permittee. The permittee shall place this inspection log or summary into the operating record of the facility. [40 CFR 264, 40 CFR 270.32(b), 40 CFR 264.73]

176. The permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. [40 CFR 270.32(b)]

177. In Container Storage Area F, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003 and PCB waste. The waste capacity of Container Storage Area F shall be limited to a maximum of 20,625 gallons. Individual containers shall not be larger than 300 gallons. The storage and processing of lab packs, the consolidation of containerized waste, and solidification/stabilization of waste in containers shall only be conducted in the covered portion of Container Storage Area F. Blending & bulking and decanting of waste is authorized in all portions of this area. [40 CFR 270.32(b)]

178. In Container Storage Area A, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of Area A shall be limited to a maximum of 48,000 gallons. Non-rolloff containers shall not be larger than 300 gallons. Rolloff containers shall not be larger than 40 cubic yards. Cargo tanks shall not be larger than 8,000 gallons. Blending & bulking and decanting of waste and the repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(a)]

179. At the Tank Farm Loading/Unloading Pad, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PBC waste. The waste capacity at the Tank Farm Loading/Unloading Pad shall be limited to a maximum of 30,879 gallons. Individual tankers shall not be larger than 7,000 gallons. Consolidation, blending & bulking, decanting, and filtration of waste, and repackaging of non-lab pack waste is authorized in this area. [40 CFR 270.32(b)]

180. At the Quality Control (QC) dock the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of this area shall be limited to a maximum of 11,500 gallons. Individual containers shall not be larger than 300 gallons. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

181. In Container Storage Area C, the permittee is authorized to treat, store, and transfer waste authorized by this permit, including D001, D003, and PCB waste (including waste containing PCBs at 50 ppm or greater). The waste capacity of Area C shall be limited to a maximum of 17,600 gallons. Individual containers shall not be larger than 300 gallons. The storage and processing (including repackaging) of lab packs is permitted in this area. Consolidation, blending and bulking, solidification/stabilization in containers, and repackging of non-lab pack waste is authorized in this area. [40 CFR 270.32(b)]

182. In Container Storage Area B, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of Area B shall be limited to a maximum of 21,560 gallons. Individual containers shall not be larger than 300 gallons. Consolidation, blending & bulking, and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]

183. The permittee is authorized to conduct blending, bulking, decanting, storage, staging, transfer, filtration, loading/unloading and vehicle staging for aqueous wastes identified with the following waste numbers: D001, D002, D004 through D043, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K156 through K161, K169, K170, K171 and K172. [40 CFR 270.32(b)]

184. The permittee shall use the QC Dock or any treatment, storage, transfer, loading/unloading, or staging area authorized by this permit for receiving all incoming waste shipments. [40 CFR 270.32(b)]

185. The permittee is authorized to conduct repackaging, decanting, storage, transfer, staging, filtering, loading/unloading and vehicle staging for waste identified with the following waste numbers : D001, D002, D004 through D043, F001 through F012, F019, F024, F025, F028, F032, F034, F035, F037, F038, F039, K001 through K062, K064, K065, K066, K069, K071, K073, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K141, K147, K148, K156 through K161, K169, K170, K171 and K172, P001 through P018, P020 through P024, P026 through P031, P033, P034, P036 through P051, P054, P056 through P060, P062 through P078, P081, P082, P084, P085, P087, P088, P089, P092 through P099, P101 through P116, P118 through P123, P127, P128, P185, P188 through P192, P194, P196, P199, P201 through P205, U001 through U009, U014 through U039, U041 through U053, U055 through U099, U101 through U174, U176 through U194, U196, U197, U200 through U211, U213 through U223, U225 through U228, U234 through U240, U243, U244, U246 through U249, U271, U272, U277 through U280, U328, U353 through U359, U364 through U367, U372, U373, U375 through U379, U381, U382 through U387, U389 through U396, U400 through U404, U407, U409, U410, and U411. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

186. The permittee is authorized to operate a treatment process for the blending and bulking of organic solvent waste or aqueous waste in any of the authorized storage, transfer or treatment areas authorized by this permit. The permittee shall operate and maintain the treatment process in accordance with the application documents and engineering designs referenced in this permit. Before treating any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. If necessary, the permittee shall decant liquid waste from containers utilized in the treatment process in accordance with the decanting requirements of this permit. Waste derived fuels, waste solvents and aqueous wastes produced by the treatment process shall be managed in accordance with the requirements of this permit pending shipment to off-site authorized facilities. The permittee is authorized to utilize the following equipment in the blending and bulking treatment process: two 5,000 gallon mobile tankers; one 4,000 gallon mobile tanker; a set of filter screens; liquid transfer pumps with explosion proof motors; assorted transfer hoses; two container homogenizing mixers; grounding lines; one 12'x4'x4' screen filter box; one 5.83'x4'x3' screen filter box; and one in-line dispersing grinder with explosion proof motor. The permittee may add or delete equipment from this list provided the permittee has given the Department written notification of such addition(s) or deletion(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]

187. At the Hockmeyer Area, the applicant is authorized to treat, store, and transfer waste authorized by the permit, with the exception of D001, D003, and PCB waste. The waste capacity of this area shall be limited to a maximum of 24,640 gals. Individual containers shall not be larger than 119 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b), 40 CFR 264]

188. The permittee is authorized to operate a treatment process for decanting liquid containerized waste authorized by this permit in accordance with the application documents and engineering designs referened in this permit. The permittee may conduct the decanting process within any of the existing storage, transfer and treatment areas authorized by this permit. Before decanting any waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The permittee shall decant the waste from containers by aspirating, pouring, pumping or siphoning. [40 CFR 270.32(b)]

189. Every day the facility is in operation, the permittee shall record in an inspection log or summary the number and volume of containers in each storage area. [40 CFR 261.7, 40 CFR 264, 40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

190. The permittee is authorized to stage incoming compatible, containerized waste in the existing locations listed below in accordance with the permit application documents and engineering designs referenced in this permit. The permittee shall place all incoming waste shipments into a treatment or storage area authorized by this permit by the same time of day that the waste shipment originally entered the facility property on the next operating day of the facility. The permittee shall remove from the facility property or place into a storage or treatment area authorized by this permit all outgoing waste shipments by the same time of day that the waste shipment was originally removed from a storage or treatment area authorized by this permit and placed into a container staging or loading/unloading area authorized by this permit on the next operating day of the facility. Staged containerized waste shall not count toward the permitted waste container storage capacities authorized by this permit until the time limits specified above have been exceeded. Containers of hazardous waste may be staged at the following locations: Tank Farm Loading/Unloading Pad; QC Dock; Main Processing Pad & Loading/Unloading Dock; West Pad of the QC Dock; East Pad of the QC Dock; Container Storage Areas A, C, D, E, and G; and the Containment Building. [40 CFR 270.32(b)]

191. The permittee shall render empty, in accordance with 40 CFR 261.7, any container that has held hazardous waste before on-site crushing of such container in the permittee's drum crusher. [40 CFR 270.32(b)]

192. The permittee is authorized to operate a treatment process to filter wastes authorized by this permit in any container storage area authorized by this permit. The permittee shall operate and maintain the treatment process in accordance with the application documents and engineering designs referenced in this permit. Liquid or semi-liquid waste may be pumped through portable filtration devices to remove suspended solids prior to transferring such waste to any storage, transfer or treatment activity authorized by this permit. The permittee is authorized to utilize the following equipment for the filtration process: one 12'x4'x4' screen filter box; one 5.83'x4'x3' screen filter box; assorted transfer hoses; grounding lines; portable filtration devices; a set of filter screens; pumps with explosion proof motors; and in-line dispersing grinders with explosion proof motors. The permittee may add or delete equipment from this list provided the permittee has given the Department written notification of such addition(s) or deletion(s) and the permittee has received written approval from the Department. [40 CFR 270.32(b)]

193. For the lab pack repackaging process, the permittee shall bulk compatible waste to be processed in containers. The processed container shall be assigned a container number and the contents of the container shall be recorded on a consolidation sheet which shall be on file with the Quality Assurance Supervisor. Before bulking a waste, the permittee shall test a representative sample of the waste in accordance with the procedures outlined in Appendix 5-4 "Compatibility Procedures for "Processing Lab Pack Containers" in the documents referenced in this permit. The emptied bottles, jars, jugs, etc. shall be crushed and accumulated in a container authorized for hazardous waste solids which shall be manifested off-site to an authorized facility. The soiled packing media shall also be accumulated in a container authorized for hazardous waste solids which shall be manifested off-site to an authorized facility. Unsoiled packing media may be reused. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

194. The permittee is authorized to operate a treatment process for the solidification/stabilization of hazardous waste in containers utilizing approved reagents listed in Table 4-3 in accordance with the application documents and engineering designs referenced in this permit. The process shall be performed only within Container Storage Area C, the concrete containment pad surrounding the Main Processing Pad & Loading/Unloading Dock, and the Containment Building. Before treating any hazardous waste, the permittee shall test a representative sample of the waste in accordance with the waste analysis requirements of this permit. The process shall be performed in non-bulk containers up to 119 gallons or bulk containers up to 40 cubic yard capacity (limited to DOT authorized metal containers/bins, such as roll-offs, or non-metal containers, such as cardboard or fiber boxes, when required to facilitate off-site treament or disposal, such as incineration). Partially filled containers shall be consolidated until a full container is obtained, if necessary. An approved solidification/stabilization reagent listed in Table 4-3 shall be added to the top of the container with a hand scoop or other similar equipment to absorb any free liquids, if necessary. Filled containers shall be resealed and labeled pending shipment to an authorized off-site facility. In the case where the treated waste will be sent off-site for thermal incineration or treatment, the untreated waste shall be transferred, prior to solidification/stabilization, to an incinerable container that meets the specification of the off-site destination facility. [40 CFR 270.32(b)]

195. At the Main Processing Pad & Loading/Unloading Dock, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of PCB waste. The waste capacity of this area shall be limited to a maximum of 80,000 gallons. Individual containers shall not be larger than 8,000 gallons. D001 waste shall only be managed in portions of this area that are at least 50 feet from the property line. Consolidation, blending & bulking, decanting, and repackaging of non-lab pack waste is authorized in this area. Solidifcation/stabilization in containers is authorized within the secondary containment system of this area. [40 CFR 270.32(b)]

196. In Container Storage Area G, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003 and PCB waste. The waste capacity of Area G shall be limited to a maximum of 48,000 gallons. Individual containers shall not be larger than 300 gallons, and roll off containers shall not be larger than 40 cubic yards (8,000 gallons). Blending & bulking and decanting of waste and the repacking of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]

197. In Container Storage Area E, the permittee is authorized to treat, store, and transfer waste authorized by this permit , with the exception of D001, D003 and PCB waste. The waste capacity of Area E shall be limited to a maximum of 19,500 gallons. Individual containers shall not be larger than 300 gallons, while rolloff container shall not be larger than 30 cubic yards. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b)]

Subject Item: HWSG787685 - Hazardous Waste Container Storage/Treatment Areas

198. The permittee is authorized to conduct repackaging, staging, transfer, storage, decanting, consolidation, filtration, loading/unloading and vehicle staging of solid, semi-solid and liquid wastes identified with the following waste numbers: All "D" hazardous waste listed at 40 C.F.R. 261.21 through 261.24, all "P" and "U" hazardous wastes listed at 40 C.F.R. 261.33, F001 through F012, F019 through F024, F025, F026 through F028, F032, F034, F035, F037, F038, F039, K001 through K011, K013 through K052, K060 through K069, K071, K073, K079, K081, K083 through K088, K090, K091, K093 through K118, K123 through K126, K131, K132, K136, K141, K147, K148, K156 through K161, K169, K170, K171 and K172. The permittee shall manage PCB waste in Container Storage Areas A and C; QC dock; East Pad of QC Dock; and the CBU only. [40 CFR 270.32(b)]

199. The permittee is authorized to operate a repackaging process for lab packs in accordance with the application documents referenced in this permit. The repacking of lab packs shall be performed within Container Storage Area C and the covered portion of Container Storage Area F authorized by this permit. The pemittee shall only accept sealed lab packs of up to 110 gallon capacity. The permittee shall only open 20 lab packs for repackaging at any one time. From the information on the packing list, the permittee's Quality Assurance Technician shall recommend the proposed disposition of each individual container within the lab pack by writing on the packing list either the letter "P" for on-site processing or "T" for transfer to an authorized off-site facility. The packing list with the recommended dispositions shall be filed with the Quality Assurance Supervisor for approval. A copy of this packing list with the recommended disposition(s) shall be affixed to the top of the lab pack container. Upon approval by the Quality Assurance Supervisor, the individual containers in the lab pack shall be removed and placed into other containers designated for specific approved disposition or left in the original container. For repacked lab packs for transfer, the lab pack shall be properly labeled and shall contain the new packing list. For every new addition to a lab pack, the packing list shall be amended. The packing list shall be placed on top of the container and a duplicate copy shall be filed with the Quality Assurance Supervisor with the additions to the lab pack listed. The permittee shall segregate individual bottles, jars, jugs, etc. in repacked lab pack containers in accordance with DOT regulations. When the new lab pack is filled, it shall be moved to any container storage or transfer area authorized by this permit pending shipment to an off-site authorized facility. [40 CFR 270.32(b)]

200. In Container Storage Area D, the permittee is authorized to treat, store, and transfer waste authorized by this permit, with the exception of D001, D003, and PCB waste. The waste capacity of Area D shall be limited to a maximum of 10,560 gallons. Individual containers shall not be larger than 300 gallons. Blending & bulking and decanting of waste and repackaging of non-lab pack waste (one container to a new or replacement container only) is authorized in this area. [40 CFR 270.32(b), 40 CFR 261.23, 40 CFR 261.22, 40 CFR 261.21, 40 CFR 264]

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTIN
Commissioner

Division of Solid & Hazardous Waste
Bureau of Recycling & Hazardous Waste Management
401 East State Street
P.O. Box 420, Mail Code 401-02C
Trenton, NJ 08625-0420
Tel (609) 984-3438 Fax (609) 777-1951/984-0565
www.nj.gov/dep/dshw/recycling

August 31, 2017

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

John Eshelman, Manager
Clean Earth of Carteret, LLC
24 Middlesex Avenue
Carteret, NJ 07008

Re: Renewal of Class B Recycling Center General Approval
Clean Earth of Carteret, LLC
Borough of Carteret, Middlesex County
Facility ID No: 132310
Permit No.: CBG160002

Dear Mr. Eshelman:

Please be advised that the New Jersey Department of Environmental Protection, Division of Solid and Hazardous Waste, Bureau of Recycling and Hazardous Waste Management (Bureau) has reached a final determination to renew the above Class B Recycling Center General Approval. Enclosed is a copy of the final document.

Should you wish to contest any of the conditions of the enclosed general approval, you must file a request for an adjudicatory hearing within twenty (20) days of the date you receive this decision notice in accordance with the procedures found in N.J.A.C. 7:26A-3.14. A copy of the request should also be mailed to this office.

If you have any questions concerning this matter, please contact Nick Nader at (609) 984-2067 or nicholas.nader@dep.nj.gov.

Sincerely,

Zafar Billah.

Zafar M. Billah, Acting Chief
Bureau of Recycling & Hazardous Waste Management

Enc.

C(w/enc.): *Tom Farrell, Chief, Bureau of Solid Waste Compliance and Enforcement
*Paul Smith, Supervisor, BSWC&E – Central Region
Les Jones, Middlesex County Health Officer
Christopher Sikorski, Middlesex County Solid Waste Coordinator
Kathleen M. Barney, Municipal Clerk, Borough of Carteret

*By e-mail only

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTIN
Commissioner

Division of Solid & Hazardous Waste
Bureau of Recycling & Hazardous Waste Management
401 East State Street
P.O. Box 420, Mail Code 401-02C
Trenton, NJ 08625-0420
Tel (609) 984-3438 Fax (609) 777-1951/984-0565
www.state.nj.gov/dep/dshw/recycling

RECYCLING CENTER GENERAL APPROVAL FOR CLASS B RECYCLABLE MATERIALS

Under the provisions of N.J.S.A. 13:1E-1 *et seq.* and N.J.S.A. 13:1E-99.11 *et seq.*, known as the Solid Waste Management Act and New Jersey Statewide Mandatory Source Separation and Recycling Act, respectively, and pursuant to N.J.A.C. 7:26A-1 *et seq.,* known as the Recycling Regulations, this approval is hereby issued to:

Clean Earth of Carteret, LLC

Facility Type:	Recycling Center for Class B Materials
Lot & Block No.:	3.02/1
Municipality:	Borough of Carteret
County:	Middlesex
Facility ID No.:	132310
Permit No.:	CBG160002

This General Approval is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection (Department).

This General Approval shall not prejudice any claim the State may have to riparian land nor does it allow the registrant to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be riparian, wetlands, stream encroachment or flood plains, or within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection.

August 31, 2017
Issuance Date

March 7, 2022
Expiration Date

Zafar M. Billah, Acting Chief
Bureau of Recycling & Hazardous Waste Management

Scope of Approval

This General Approval (approval), along with the referenced application documents herein specified, shall constitute the sole approval of Recycling Center operations for Class B Recyclable Material (petroleum contaminated soil, street sweepings, brick, block, concrete, stone, rock, and asphalt) by Clean Earth of Carteret, LLC, located in the Borough of Carteret, Middlesex County, New Jersey. Any registration, approval or permit previously issued by the Division of Solid and Hazardous Waste, or its predecessor agencies, for the specific activities as described below and as conditioned herein, is hereby superseded.

Regulated Activities at the Facility

Items 1 through 39 of this approval contain the general conditions applicable to all recycling centers. Items 40 through 87 of this approval contain the operating requirements specific to the recycling center for receipt, storage, processing, or transfer of Class B recyclable materials including non-hazardous petroleum contaminated soils. Items 88 through 91 of this approval are the sampling requirements for testing the street sweepings. Items 92 through 101 of this approval contain the conditions for the aggregate crushing operations.

Facility Description

The recycling center is a Class B facility owned and operated by Clean Earth of Carteret, LLC. The recycling center is located at 24 Middlesex Avenue on Block 1, Lot 3.02, in Borough of Carteret, Middlesex County. This regional recycling center receives petroleum contaminated soil from soil remediation contractors and street sweepings from municipalities. The recycling center is authorized to receive, process and transfer brick, block, concrete, stone, rock, and asphalt from construction and demolition contractors, construction companies, municipalities, and counties. Hours of operation for the receipt, treatment/processioning and transferring source separated recyclable material can occur 24 hours per day, 7 days per week. The operation of the crushers shall be limited to: 7:00 a.m. to 7:00 p.m., Monday through Friday and Saturdays from 7:00 a.m. to 4:00 p.m.

The recycling center is also utilized for finished product storage and equipment storage as shown on the site plan. The recycling center markets clean soil and dense graded aggregate from the site.

When the Approval was last renewed on October 27, 2014 by the Division of Solid and Hazardous Waste, some of the authorized equipment, described in Requirement #94, were inadvertently omitted. Requirement #94 has been revised to include an actual list of authorized equipment.

Approved General Approval Application and Associated Documents

The registrant shall construct and operate the facility in accordance with N.J.A.C. 7:26A-1 *et seq.*, the conditions of this Approval, and the following documents:

a) Site plan entitled "As-Built Site Map Clean Earth of Carteret, Carteret, Middlesex County, NJ", prepared by Bradley J. Cunningham, P.E. of Compliance Plus Services, Inc., dated May 9, 2014 and last revised May 2, 2017.

b) Clean Earth of Carteret, Submittal of signed transfer agreement, prepared and signed by Michael D. Logan, Vice President, Compliance Plus Services, dated May 22, 2003.

c) Plan SB-01 entitled "Unprocessed PHC Soil Storage Building Layout, Clean Earth of Carteret, LLC, Carteret, Middlesex County, New Jersey", prepared by Bradley J. Cunningham, P.E., of Compliance Plus Services, Inc., dated May 2, 2014.

d) Clean Earth of Carteret, Inc., Request to utilize cement kiln dust or lime as a drying agent to remove moisture from its treated soils, prepared and signed by Michael D. Logan, Vice President, Compliance Plus Services, dated December 27, 2006.

e) Notification of Proposed Stock Purchase of Clean Earth Holdings, Inc. dated August 20, 2014 and prepared by Michael D. Logan, Vice President of Compliance Plus Services, Inc.

f) Class B Recycling Center General Permit Renewal and Modification Application for the Acceptance of Restricted Use Aggregate ("RUA") and Direct Reuse Soils ("DRS SOILS"), dated March 5, 2012, prepared by Michael D. Logan, Vice President of Compliance Plus Services, Inc.

g) Class B Recycling Center General Approval Renewal Application, dated June 10, 2014, and prepared by Michael D. Logan, Vice President of Compliance Plus Services, Inc. This Renewal of the Application does not include any modification approval requested to the proposed acceptance and processing of Direct Reuse of Soils (DRS) and Restricted Reuse Aggregate (RUA) referenced in the Compliance Plus Services, Inc. letter dated March 5, 2012.

h) Class B Recycling Center Renewal Application of General Approval dated November 21, 2016 and signed by Michael D. Logan, Vice President – Environmental Services, Compliance Plus Services, Inc. and including the following:

   1. Ground Lease Agreement dated November 1, 2010;
   2. List of Permitted Equipment; and
   3. Certification dated November 21, 2016, signed by Christopher Dods, President – Clean Earth of Carteret and certifying that there have been no changes in the operations of the recycling since the most recent Approval modification.

i) Supplemental information dated February 17, 2017 and signed by Michael D. Logan, Compliance Plus Services.

In case of conflict, the provisions of N.J.A.C. 7:26A-1 *et seq.* shall have precedence over the conditions of this Approval, and the conditions of this Approval shall have precedence over plans and specifications listed above.

Subject Item: PI 132310 -

1. All persons issued a general approval to operate a recycling center for Class B, Class C and/or Class D recyclable material pursuant to N.J.A.C. 7:26A-1 et seq. shall comply with all conditions of the approval [N.J.A.C. 7:26A-3.1(a)]
2. The holder of this general approval shall prominently post and maintain a legible sign, at or near the entrance to the recycling center, indicating that the recycling center is an approved New Jersey Department of Environmental Protection recycling center. The sign shall also indicate the following: Hours of operation of the recycling center; Listing of the source separated materials to be received; The size, weight, or other restrictions regarding materials to be received; The maximum amount of contaminants allowed in each load; Warning that loads will be inspected and will be barred from offloading if the contaminant level is exceeded; and Notice that the person offloading shall certify the amount of material per load, municipality of origin of the material and any other information contained on the Recyclable Material Receipt Form [N.J.A.C. 7:26A-3.5(f)]
3. Application for renewal of this general approval shall be submitted at least three months prior to expiration of the current approval and shall comply with all requirements for renewal set forth in N.J.A.C. 7:26A-3.6 et seq. One copy of the application for renewal of the general approval shall be submitted by the applicant to the municipal clerk of the municipality in which the recycling center is located, and to the solid waste or recycling coordinator of the county in which the recycling center is located [N.J.A.C. 7:26A-3.6(a)]
4. The applicant for renewal of this general approval shall certify in writing to the Department that there have been no changes in the operations of the recycling center since the issuance of the general approval in order to renew the approval in its existing form. In the event that there have been changes in the operations of the recycling center or where changes are planned, the application for renewal of a general approval shall be accompanied by a written request to modify the general approval in accordance with N.J.A.C. 7:26A-3.10 [N.J.A.C. 7:26A-3.6(b)]
5. In a case where the holder of this general approval does not comply with N.J.A.C. 7:26A-3.6(a) and (b) and continues to operate without renewal of the general approval, the Department may take enforcement action including the assessment of penalties under N.J.S.A. 13:1E-9; require the holder of this general approval to file an application as a new applicant for a general approval in accordance with N.J.A.C. 7:26A-3.2 and pay the application fee as per N.J.A.C. 7:26A-2; and/or take any other appropriate actions [N.J.A.C. 7:26A-3.6(c)]
6. All persons granted a renewal pursuant to N.J.A.C. 7:26A-3.6(d) shall continue to pay the annual fee as specified in N.J.A.C. 7:26A-2 [N.J.A.C. 7:26A-3.6(h)]
7. The holder of this general approval shall obtain prior approval from the Department for any modification of the general approval [N.J.A.C. 7:26A-3.10(a)]
8. Any change affecting the conditions of this general approval requires the prior approval of the Department [N.J.A.C. 7:26A-3.10(b)1]
9. Any change to the information submitted pursuant to N.J.A.C. 7:26A-3.2(a), 3.4, 3.8, 3.18, 3.19 or 3.20 requires the prior approval of the Department, except that changes in end-market information submitted pursuant to N.J.A.C. 7:26A-3.2(a) 7 shall not require the prior approval of the Department but shall be handled in accordance with N.J.A.C. 7:26A-3.10(f). [N.J.A.C. 7:26A- 3.10(b)2]

Subject Item: PI 132310 -

10. The holder of this general approval shall notify the Department in writing of the intended modification and shall update the information submitted pursuant to N.J.A.C. 7:26A-3.2(a), 3.4, 3.8, 3.18, 3.19 or 3.20. The holder of this general approval shall also provide written notice to the solid waste or recycling coordinator of the applicable county of any request to modify a general approval. [N.J.A.C. 7:26A-3.10(c)]

11. The holder of this general approval shall not institute the modification until it receives written approval from the Department [N.J.A.C. 7:26A-3.10(e)]

12. Within one week of any change to the end-market information submitted to the Department pursuant to N.J.A.C. 7:26A-3.2(a)7, the holder of this general approval shall submit to the Department a written notification which details any change in the use of the recyclable material transferred from the recycling center to an end-market or in the end-market location to which the recyclable material is transferred. The written notification shall be sent to: New Jersey Department of Environmental Protection, Division of Solid and Hazardous Waste, Bureau of Recycling & Hazardous Waste Management, 401 East State Street, P.O. Box 420, Mail Code 401-02C, Trenton, New Jersey 08625-0420. [N.J.A.C. 7:26A- 3.10(f)]

13. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any provision of N.J.S.A. 13:1E-1 et seq., the New Jersey Statewide Mandatory Source Separation and Recycling Act, or any rule, regulation or administrative order promulgated pursuant to N.J.S.A. 13:1E-1 et seq. and the New Jersey Statewide Mandatory Source Separation and Recycling Act [N.J.A.C. 7:26A-3.13(a)1]

14. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any solid waste utility law at N.J.S.A. 48:2-1 et seq. or 48:13A-1 et seq., or any rule, regulation or administrative order promulgated pursuant to N.J.S.A. 48:2-1 et seq. or 48:13A-1 et seq [N.J.A.C. 7:26A-3.13(a)2]

15. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any provision of any laws related to pollution of the waters, air or land surfaces of the State or of any other State or Federal environmental laws including criminal laws related to environmental protection [N.J.A.C. 7:26A-3.13(a)3]

16. The Department may revoke this general approval upon a determination that the holder of the general approval has refused or failed to comply with any lawful order of the Department [N.J.A.C. 7:26A-3.13(a)4]

17. The Department may revoke this general approval upon a determination that the holder of the general approval has failed to comply with any of the conditions of this general approval issued by the Department [N.J.A.C. 7:26A-3.13(a)5]

18. The Department may revoke this general approval upon a determination that the holder of the general approval has transferred a general approval to a new owner or operator pursuant to N.J.A.C. 7:26A-3.15 without the prior approval of the Department [N.J.A.C. 7:26A-3.13(a)6]

19. The Department may revoke this general approval upon a determination that the holder of the general approval has failed to obtain any required permit or approval from the Department or other State or Federal agency [N.J.A.C. 7:26A-3.13(a)7]

Subject Item: PI 132310 -

20. The Department may revoke this general approval upon a determination that the holder of the general approval has committed any of the acts which are criteria for denial of a general approval set forth in N.J.A.C. 7:26A-3.12. [N.J.A.C. 7:26A-3.13(a)8]

21. This general approval shall not be transferred to a new owner or operator without the Department's prior approval [N.J.A.C. 7:26A-3.15(a)]

22. A written request for permission to allow a transfer of this general approval must be received by the Department at least 60 days in advance of the proposed transfer of ownership or operational control of the recycling center. The request for approval shall include the following: the name, address and social security number of all prospective new owners or operators; a written certification by the proposed transferee that the terms and conditions contained in the general approval will be met by the proposed transferee; and a written agreement between the current owner or operator of the recycling center and the proposed new owner or operator containing a specific future date for transfer of ownership or operational control [N.J.A.C. 7:26A-3.15(a)1]

23. A new owner or operator may commence operations at the recycling center only after the existing approval has been revoked and a new approval is issued to the new owner or operator pursuant to N.J.A.C. 7:26A-3.5 [N.J.A.C. 7:26A-3.15(a)2]

24. The holder of this general approval remains liable for ensuring compliance with all conditions of the approval unless and until the existing approval is revoked and a new approval is issued to the new owner or operator pursuant to N.J.A.C. 7:26A-3.5 [N.J.A.C. 7:26A-3.15(a)3]

25. Compliance with the transfer requirements set forth at N.J.A.C. 7:26A-3.15 shall not relieve the holder of this general approval from the separate responsibility of providing notice of such transfer pursuant to the requirements of any other statutory or regulatory provision [N.J.A.C. 7:26A-3.15(a)4]

26. The transfer of a controlling interest in the stock or assets of the recycling center that is the subject of this general approval shall constitute a transfer of this general approval [N.J.A.C. 7:26A-3.15(b)]

27. The holder of this general approval shall maintain a daily record of the amounts of each recyclable material by type and municipality of origin which are received, stored, processed or transferred each day, expressed in tons, cubic yards, cubic feet or gallons. Those operators specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons [N.J.A.C. 7:26A-3.17(a)1]

28. The holder of this general approval shall maintain a daily record of the name, address and telephone number of the end-markets for all recyclable materials transported from the recycling center, including the amounts, in tons, cubic yards, cubic feet or gallons, transported to each end-market. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons [N.J.A.C. 7:26A-3.17(a)2]

29. The holder of this general approval shall maintain a daily record of the amount of residue disposed of, expressed in tons, cubic yards, cubic feet or gallons, including the name and New Jersey Department of Environmental Protection solid waste registration number of the solid waste collector/hauler contracted to provide the haulage/disposal service. Those persons specifying the amount of residue in cubic yards shall also indicate the conversion ratio of the residue from cubic yards to tons. [N.J.A.C. 7:26A-3.17(a)3]

Subject Item: PI 132310 -

30. The holder of this general approval shall retain all Recyclable Material Receipt Forms required pursuant to N.J.A.C. 7:26A-3.2(a)16iii for three calendar years following the calendar year for which an annual report is required pursuant to N.J.A.C. 7:26A-3.17(c) [N.J.A.C. 7:26A-3.17(b)]

31. The holder of this general approval shall submit an annual report containing monthly summary statements of the information required pursuant to N.J.A.C. 7:26A-3.17(a) to the New Jersey Department of Environmental Protection, Division of Solid and Hazardous Waste, on or before March 1 of each year, for the previous calendar year. The summaries shall include the following: monthly totals of the amount of recyclable material received from each customer by municipality of origin; monthly totals of the amount of recyclable product transferred to each end-market; and the amount of residue disposed of during each month. [N.J.A.C. 7:26A- 3.17(c)]

32. The holder of this general approval shall certify in writing to the Department that all residue generated at the recycling center has been disposed of in accordance with the solid waste management rules at N.J.A.C. 7:26. The certification shall be submitted annually as part of the annual report [N.J.A.C. 7:26A-3.17(e)]

33. All information submitted to the Department pursuant N.J.A.C. 7:26A shall be handled in accordance with the requirements of the Public Records law, N.J.S.A. 47:1-1 et seq. The Department will hold confidential all end-market information, as well as information pertaining to the municipality of origin of recyclable material, submitted pursuant to N.J.A.C 7:26A-3.2, 3.7, and 3.17 through 3.20 for a period of two years from the date on which the information is submitted to the Department, where specified as confidential by the applicant and where there are no health, safety or environmental concerns which require the release of the information, as determined by the Department. [N.J.A.C. 7:26A-3.17(f)]

34. The holder of this general approval shall provide a recycling tonnage report by March 1 of each year to all municipalities from which recyclable material is received in the previous calendar year. The report shall detail the amount of each source separated recyclable material, expressed in tons or cubic yards, brought to the recycling center, as well as the date on which the recyclable materials were delivered to the recycling center. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons. [N.J.A.C. 7:26A-4.4(a)]

35. The recycling center shall not commence operations unless and until it is included in the applicable district solid waste management plan [N.J.A.C. 7:26A-4.2]

36. The construction of the recycling center that is the subject of this general approval shall be in conformance with the New Jersey Uniform Construction Code, N.J.S.A. 52:27D-119 et seq., and the rules promulgated pursuant thereto [N.J.A.C. 7:26A-4.1(b)]

37. The New Jersey Department of Environmental Protection or an authorized representative acting pursuant to the County Environmental Health Act, N.J.S.A. 26:3A2-1 et seq. shall have the right to enter and inspect any building or other portion of the recycling center at any time in order to determine compliance with the provisions of all applicable laws or rules and regulations adopted pursuant thereto. This right to inspect includes, but is not limited to: sampling any materials on site; photographing any portion of the recycling center; investigating an actual or suspected source of pollution of the environment; and, ascertaining compliance or non-compliance with the statutes, rules or regulations of the Department, including conditions of the recycling center approval issued by the Department. [N.J.A.C. 7:26-1.7(a)]

Subject Item: PI 132310 -

38. The right of entry specified at N.J.A.C. 7:26A-1.7(a) shall be limited to normal operating hours for the purpose of reviewing and copying all applicable records, which shall be made available to the Department during an inspection and submitted to the Department upon request. [N.J.A.C. 7:26-1.7(b)]

39. The facility shall comply with the general operating requirements for all Recycling Centers as provided at N.J.A.C. 7:26A-4.1 [N.J.A.C. 7:26A-4]

Subject Item: RCBG139162 - General Class B & Soil Conditions

40. Recycling centers receiving petroleum contaminated soil must have a preparedness and prevention plan. The contingency plan contained in the approved documents must be maintained on-site and updated as necessary. [N.J.A.C. 7:26A- 3.5(e)]

41. Upon detection of a release of contaminants to the environment, the facility shall perform the following cleanup steps: stop the release, contain the released contaminants, clean up and manage properly the released contaminants and other materials and if necessary, repair or replace any leaking soil containment systems prior to returning them to service. [N.J.A.C. 7:26A-3.5(e)]

42. Upon closure of the facility the owner or operator shall remove or decontaminate petroleum contaminated soils, containment system components, and structures and equipment and manage them as hazardous waste, unless the materials are not hazardous waste under N.J.A.C. 7:26G-5. [N.J.A.C. 7:26A- 3.5(e)]

43. All equipment and portions of the facility designated for the storage or processing of petroleum contaminated soils shall be visually inspected each operating day for integrity and leaks. [N.J.A.C. 7:26A-3.5(e)]

44. Records shall be maintained for all visual inspections. These records shall document that inspections were performed, any problems found, and the subsequent correction of such problems. All records shall be kept for a minimum of three years. [N.J.A.C. 7:26A-3.5(e)]

Subject Item: RCBG139162 - General Class B & Soil Conditions

45. The facility shall keep a record of each shipment of petroleum contaminated soil accepted for processing. These records may take the form of a log, invoice, manifest, bill of lading or other shipping documents. All tracking records shall be maintained by the holder of this general approval as required by N.J.A.C. 7:26A-3.2(a) 16iii for three calendar years.

    Records for each shipment shall include the following information: the name and address of the transporter who delivered the soil to the facility, the name and address of the generator from whom the soil was sent, the NJDEP registration number of the transporter, EPA ID number (if applicable) of the generator, the quantity of soil accepted and the date of acceptance.

    Prior to the receipt of a shipment of soil from a generation source, the holder of this approval shall have received a completed Clean Earth of Carteret Material Characterization Report, as referenced in the approved General Approval Application, and associated documents for that shipment. The report shall include at least the following information: name and address of the generation site, contact information, quantity of soil, type of oil contaminating the soil, contamination source (i.e. underground storage tank, above ground storage tank, spill, histroic or other), past use of generation site (i.e. industrial, commercial, residential or historic fill), analytical results conducted on the soil and a certification that the information provided is true and accurate. The holder of this approval shall review the information provided to ensure the shipment complies with the facility's acceptance criteria for soil prior to authorizing acceptance of a shipment. [N.J.A.C. 7:26A- 3.5(e)]

46. The facility shall maintain on-site a written operating record showing analysis records, tracking records, and summary reports of incidents requiring implementation of the contingency plan. This information shall be made available to Department personnel upon request and shall be kept for a minimum of three years. [N.J.A.C. 7:26A-3.5(e)]

47. The following source separated Class B recyclable materials, which have been separated at the point of generation from other waste materials or separated at a permitted solid waste facility authorized to separate recyclable materials, may be received, stored, processed or transferred at this recycling center: NJDOT street sweepings (that meet NJ Non-Residential Direct Contact Soil Remediation Standards) and non-hazardous petroleum contaminated soils which otherwise would be ID 27 if not recycled. Only soil contaminated with the following compounds shall be accepted and processed at this facility: gasoline, kerosene, jet fuel, Numbers 1 through 6 fuel oil, and used oil. Used oil shall be defined as any oil that has been and as a result of such use, is contaminated by physical or chemical impurities. No soils may be accepted that have been contaminated with materials that are other waste materials, or waste by-products, such as sludges. No soils with free petroleum product or other liquids shall be accepted at the facility. For soils containing greater than 17,000 ppm EPH, the soil shall be determined not to contain free liquids by USEPA SW-846, Method 9095. No hazardous waste, as defined by N.J.A.C. 7:26G-5, shall be accepted by the facility. [N.J.A.C. 7:26A- 3.5(e)]

48. At no time shall the receipt, storage, processing, or transferring of non-source separated construction and demolition material be allowed at this recycling center. The prohibition of this material shall be strictly enforced and any incident shall be considered a serious violation to the conditions of this Approval. [N.J.A.C. 7:26A-3.5(e)]

Subject Item: RCBG139162 - General Class B & Soil Conditions

49. The recycling center may not receive, store, process, or transfer source separated petroleum contaminated soils and NJDOT street sweepings with any other Class B recyclable materials. The commingling of petroleum contaminated soil and NJDOT street sweepings shall only be allowed after the testing requirements identified in this approval have been met. The commingling of any other materials not described above is prohibited. [N.J.A.C. 7:26A-3.5(e)]

50. The maximum amount of contaminants, as defined in N.J.A.C. 7:26A-1.3, allowed in each incoming load of Class B recyclable material shall be limited to 1% by volume. Incidental by-product materials shall not be considered to be contaminants. [N.J.A.C. 7:26A-3.5(e)]

51. Incidental amounts of rebar, metal, soil, and other by-products which adhere to the Class B recyclable materials, as specified in this Approval, and which are returned to the economic mainstream as raw material or products, may be received, stored, processed, or transferred at this recycling center. The receipt of such incidental amounts of these materials need not be separately accounted for, but the storage and end-markets for these materials shall be subject to specific conditions of this Approval. [N.J.A.C. 7:26A-3.5(e)]

52. The holder of this general approval shall operate the recycling center and construct or install associated appurtenances thereto, in accordance with the provisions of N.J.A.C. 7:26A-1 et seq., the conditions of this general approval, and the general approval application documents. [N.J.A.C. 7:26A-3.5(e)]

53. In case of conflict, the provisions of N.J.A.C. 7:26A-1 et seq. shall have precedence over the conditions of this Approval, and the conditions of this Approval shall have precedence over plans and specifications listed above. [N.J.A.C. 7:26A- 3.5(e)]

54. One complete set of the general approval application documents, this general approval, and all records, reports and plans as may be required pursuant to this approval shall be kept on file at the recycling center and shall be available for inspection by authorized representatives of the Department or delegated agents upon presentation of credentials. [N.J.A.C. 7:26A-3.5(e)]

55. Hours of operation for the receipt, treatment/processing and transferring source separated petroleum contaminated soils and NJDOT street sweepings material can occur 24 hours per day, 7 days per week. [N.J.A.C. 7:26A- 3.5(e)]

56. Material deliveries to the recycling center shall be scheduled in such a manner as to minimize truck queuing on the recycling center property. Under no circumstances shall delivery trucks be allowed to back-up or queue onto public roads. [N.J.A.C. 7:26A-3.5(e)]

57. The recycling center may receive no more than 2,700 tons per day of petroleum contaminated soils and street sweepings. This condition is contingent upon the traffic on the public roads adjacent to the facility not being adversely affected. Should the traffic be impacted by the facility, the Department reserves the right to reduce the capacity of the facility. [N.J.A.C. 7:26A- 3.5(e)]

58. The total amount of unprocessed soil material stored in the "soil storage warehouse" shall not exceed 18,287 cubic yards. Materials stored in the "soil storage warehouse" shall be stored only in those areas designated for that purpose as indicated on the approved interior layout drawing. In addition "Area B" on the approved site plan may be used to temporarily store 15,000 cy of unprocessed soils until further processing in the "soil storage warehouse". The unprocessed soils in "Area B" will be segregated on an asphalt base with Jersey barriers and tarped during storage. [N.J.A.C. 7:26A-3.5(e)]

Subject Item: RCBG139162 - General Class B & Soil Conditions

59. If at any time, the amount of soil material stored inside the building exceeds 18,287 cubic yards and the temporary storage "Area B" exceeds 15,000 cubic yards, the recycling center shall immediately cease receiving any unprocessed soil material until the amount of unprocessed soil material combined fall below 33,287 cubic yards. [N.J.A.C. 7:26A- 3.5(e)]

60. Unprocessed recyclable material shall not remain on-site, in its unprocessed form, for more than one (1) year. [N.J.A.C. 7:26A-3.9(b)]

61. The total amount of processed soil materials stored outside shall not exceed 31,674 cubic yards. Processed material shall be stored only in those areas designated for that purpose as indicated on the approved site plan drawings. [N.J.A.C. 7:26A-3.5(e)]

62. If at any time, the amount of processed soil material stored on-site exceeds 31,674 cubic yards, the recycling center shall immediately cease processing activities until the amount of processed material falls below 31,674 cubic yards. [N.J.A.C. 7:26A-3.5(e)]

63. All processed material shall be stored separately from residues. [N.J.A.C. 7:26A-3.5(e)]

64. By-products shall be stored in the container(s) or area(s) as depicted on the approved site plan and shall be removed off-site to the end markets as referenced in the approved documents. [N.J.A.C. 7:26A-3.5(e)]

65. Horizontal and vertical control points for the unprocessed and processed materials soil stockpile areas shall be set and maintained on-site. Horizontal limitation markers shall be set at the corners of the stockpile areas as depicted on the approved site plan. Vertical limitation markers shall be set at locations in close proximity of the stockpile areas and shall clearly establish elevation height of 18 feet above the existing grade for the stockpile areas located inside the building and 20 feet above the existing grade for the processed stockpile areas located outside. [N.J.A.C. 7:26A- 3.5(e)]

66. Metal pipe or metal rods or the equivalent as approved by the Department shall be used to establish these control points. [N.J.A.C. 7:26A-3.5(e)]

67. Ingress and egress of the facility shall be restricted to Middlesex Avenue only. [N.J.A.C. 7:26A-3.5(e)]

68. Methods of effectively controlling dust shall be implemented at the facility in order to prevent offsite migration. [N.J.A.C. 7:26A-3.5(e)]

69. Fire fighting and emergency procedures shall be posted, and shall include the telephone numbers of local fire, police, ambulance, and hospital facilities. If a fire occurs on-site, the facility shall immediately notify the local fire official and the N.J.D.E.P. Environmental Action Hotline at 1-877-927-6337. [N.J.A.C. 7:26A-3.5(e)]

70. Any suspected or prohibited hazardous waste, as defined at N.J.A.C. 7:26G-5, found in a load accepted at the recycling center shall not be returned to the generator. Such materials shall be segregated and stored in a secure manner and shall be immediately reported to the N.J.D.E.P. Environmental Action Hotline at 1-877-927-6337. The owner/operator of the recycling center shall secure the name of the collector/hauler suspected of delivering such waste to the facility and related information surrounding the incident, if available, and shall make this information known to the Department's enforcement personnel. Such material may be returned to a known generator, provided that specific permission to do so is received by the owner/operator after contacting 1-877-927-6337. Otherwise, the owner/operator shall dispose of the unauthorized waste in accordance with instructions received from the Department. [N.J.A.C. 7:26A- 3.5(e)]

Subject Item: RCBG139162 - General Class B & Soil Conditions

71. All revisions to the site plan and the approved documents which may be required as a result of the above, shall be submitted to this office for modification to this Approval. [N.J.A.C. 7:26A-3.5(e)]

72. Pursuant to N.J.A.C. 7:26A-3.11(a), the holder of this general approval shall obtain prior approval from the Department for any increase in the design capacity of the facility. The facility shall submit a request to the Department, in writing, for the proposed increase and shall submit updated information pursuant to the requirements of N.J.A.C. 7:26A-3.2(a), 3.4, or 3.8, as applicable. The facility shall also provide written notice of the request to the solid waste or recycling coordinator of the applicable district. [N.J.A.C. 7:26A-3.5(e)]

73. The sampling plan, collection, preservation, and handling for the sampling and analysis of unprocessed contaminated soil as required in this Approval must be performed in accordance with the New Jersey Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the latest edition of the New Jersey Department of Environmental Protection, Field Sampling Procedures Manual. All analysis must be performed by a New Jersey certified laboratory. [N.J.A.C. 7:26A- 3.5(e)]

74. Petroleum contaminated soils shall be sampled either at the point of generation or at the recycling center. Soils from different generation sites shall be segregated at the facility until the sampling results are received. The sampling and analysis shall be implemented as follows: [N.J.A.C. 7:26A-3.5(e)]

75. All soils must be tested using the most current approved test methodology in accordance with USEPA SW-846. [N.J.A.C. 7:26A-3.5(e)]

76. Every 100 cubic yards of contaminated soil from each site shall be sampled and analyzed for EPH in the following manner: a representative sample from every 20 cubic yards of contaminated soil shall be taken and these five samples shall be composited into one sample and analyzed. When the volume of soil is less than 100 cubic yards, a representative sample of every 20 cubic yards, or a fraction thereof, shall be taken and these samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A- 3.5(e)]

77. Every 800 cubic yards of contaminated soil shall be sampled and analyzed for total volatile organic compounds (VOC), in the following manner: a representative sample from every 100 cubic yards of contaminated soil shall be taken and these samples shall be composited into one sample and analyzed. When the volume of soil is less than 800 cubic yards, a representative sample of every 100 cubic yards, or fraction thereof, shall be taken and these samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A-3.5(e)]

78. The sampling results shall be used to determine the maximum contaminant feed rate or maximum contaminant concentration for the processing equipment in accordance with the Air Quality Permit and shall also demonstrate that the material is non-hazardous for the above contaminants in accordance with N.J.A.C. 7:26G-8.5. The processing equipment at the facility uses bioremediation to process petroleum contaminated soils and achieve acceptable contaminent levels for reuse. [N.J.A.C. 7:26A- 3.5(e)]

Subject Item: RCBG139162 - General Class B & Soil Conditions

79. Processed material end products, for uses other than as landfill cover material, Department approved Brownfields projects or road construction projects, shall be sampled and analyzed for extractable petroleum hydrocarbons (EPH), total volatile organic compounds (VOC), and all contaminants listed in the New Jersey Soil Remediation Standards (SRS). The sampling procedure shall be implemented as follows: Every 100 cubic yards of processed soil shall be sampled and analyzed for the above contaminants in the following manner: a representative sample from every 20 cubic yards of processed soil shall be taken and these five samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A- 3.5(e)]

80. Processed material end products to be used in road construction projects shall be sampled every 1,000 cubic yards for EPH and VOC in the following manner: a representative sample from every 100 cubic yards of processed soil shall be taken and the samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A- 3.5(e)]

81. Other levels of testing may be allowed on a case-by-case basis as determined by use criteria in accordance with Department guidance and regulations. Applications for case-specific testing requirements must be made to the Bureau of Recycling & Hazardous Waste Management. [N.J.A.C. 7:26A- 3.5(e)]

82. Only approved criteria shall be used to determine the allowable end use of the processed material and the maximum allowable contamination levels for use. [N.J.A.C. 7:26A-3.5(e)]

83. The maximum allowable contamination levels for unrestricted general use are 200 ppm EPH and all individual organic contaminants less than or equal to 50% and inorganic contaminants less than or equal to 75% of the most stringent Direct Contact Soil Remediation Standards (SRS). [N.J.A.C. 7:26A- 3.5(e)]

84. The analytical requirements of the individual landfills shall be complied with for soils being used as landfill cover material. For soils being used as fill material in Brownfields projects, the requirements (including sampling frequency and analytical parameters) shall be approved by the individual Site Remediation Program case manager on a case-by-case basis. [N.J.A.C. 7:26A- 3.5(e)]

85. Other levels of contamination may be allowed on a case-by-case basis as determined by use criteria and levels of contamination in accordance with Department guidance and regulations. Certificates of Authority to operate beneficial use projects pursuant to N.J.A.C. 7:26-1.7(g) must be obtained before any use of the processed material end products. [N.J.A.C. 7:26A-3.5(e)]

86. Any processed material end products that do not meet the above criteria must be reintroduced to the treatment process for further treatment. After treatment, the processed material end products must be reanalyzed in accordance with the above criteria. [N.J.A.C. 7:26A-3.5(e)]

87. All analysis records must be kept for a minimum of three years and made available for inspection by state and local officials upon request. [N.J.A.C. 7:26A-3.5(e)]

Subject Item: RCBG139339 - Street Sweepings Sampling

88. Every 800 cubic yards of street sweepings shall be sampled and analyzed for total volatile organic compounds (VOC), in the following manner: a representative sample from every 100 cubic yards shall be taken and these samples shall be composited into one sample and analyzed. When the volume is less than 800 cubic yards, a representative sample of every 100 cubic yards, or fraction thereof, shall be taken and these samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A-3]

89. The sampling results shall be used to determine the maximum contaminant feed rate or maximum contaminant concentration for the processing equipment in accordance with the Air Quality Permit and shall also demonstrate that the material is non-hazardous for the above contaminants in accordance with N.J.A.C. 7:26G-5. [N.J.A.C. 7:26A-3]

90. Unprocessed street sweepings shall be sampled either at the point of generation or at the recycling center. Street sweepings from different generation sites shall be segregated at the facility until the sampling results are received. [N.J.A.C. 7:26A- 3]

91. Every 100 cubic yards of street sweepings from each site shall be sampled and analyzed for EPH in the following manner: a representative sample from every 20 cubic yards shall be taken and these five samples shall be composited into one sample and analyzed. When the volume is less than 100 cubic yards, a representative sample of every 20 cubic yards, or a fraction thereof, shall be taken and these samples shall be composited into one sample and analyzed. [N.J.A.C. 7:26A- 3]

Subject Item: RCBG882032 - Final Phase Crushing Operations

92. The recycling center may receive no more than 2000 tons per day of source-separated asphalt, concrete, brick, block, rock, and stone. [N.J.A.C. 7:26A-3.5(e)]

93. Hours of operation for the receipt, processing and transferring source separated recyclable material can occur 24 hours per day, 7 days per week; the operation of the crusher shall be limited to: 7:00 a.m. to 7:00 p.m., Monday through Friday and Saturdays from 7:00 a.m. to 4:00 p.m. [N.J.A.C. 7:26A- 3.5(e)]

94. The following equipment or equivalent shall be available for site operations and shall be maintained in operable condition:

Extec C-12+ Crusher
Extec Impact Crusher
Fintec 542 Screener
Sandvik QE440 Screener
Extec Robotrac Screener (2 units)
Extec S6000 Screener. [N.J.A.C. 7:26A- 3.5(e)]

95. The total amount of unprocessed asphalt, concrete, brick, block, rock, and stone stored on-site shall not exceed 36,580 cubic yards (8,800 cy in Area A & 27,780 cy in Area B). These unprocessed materials stored on-site shall be stored only in those areas designated for that purpose as indicated on the approved site plan drawing. [N.J.A.C. 7:26A- 3.5(e)]

Subject Item: RCBG882032 - Final Phase Crushing Operations

96. If at any time, the amount of unprocessed asphalt, concrete, brick, block, rock, and stone stored on-site exceeds 36,580 cubic yards (8,800 cy in Area A & 27,780 cy in Area B), the recycling center shall immediately cease receiving any unprocessed material until the amount of these unprocessed materials stored on-site falls below 36,580 cubic yards (8,800 cy in Area A & 27,780 cy in Area B). [N.J.A.C. 7:26A- 3.5(e)]

97. The total amount of processed asphalt, concrete, brick, block, rock, and stone stored on-site shall not exceed 74,812 cubic yards (30,901 cy in Area C & 43,911 cy in Area D). These processed materials stored on-site shall be stored only in those areas designated for that purpose as indicated on the approved site plan drawing. [N.J.A.C. 7:26A- 3.5(e)]

98. If at any time, the amount of processed asphalt, concrete, brick, block, rock, and stone stored on-site exceeds 74,812 cubic yards (30,901 cy in Area C & 43,911 cy in Area D), the recycling center shall immediately cease processing activities until the amount of these processed materials falls below 74,812 cubic yards. [N.J.A.C. 7:26A- 3.5(e)]

99. Horizontal and vertical control points for the unprocessed and processed materials stockpile areas shall be set and maintained on-site. Horizontal limitation markers shall be set at the corners of the stockpile areas as depicted on the approved site plan. Vertical limitation markers shall be set at locations in close proximity of the stockpile areas and shall clearly establish elevation height of 20 feet above the existing grade for the unprocessed stockpile area and 30 feet above the existing grade for the processed stockpile area. [N.J.A.C. 7:26A- 3.5(e)]

100. Metal pipe or metal rods or the equivalent as approved by the Department shall be used to establish these control points. [N.J.A.C. 7:26A- 3.5(e)]

101. Requisite recycling center operations shall not be delayed or neglected for lack of required equipment or for equipment down time. [N.J.A.C. 7:26A- 3.3(5)e3]

Tabulated Load Summaries

connect

Profile Detail Report

AARCO ENV. SERVICES CORP
MTA-LIRR Cedar Manor Substation

Job ID 156016
1/1/2021 - 4/26/2021

Approval 203071329 Clean Earth of Carteret

Ticket	Date		Truck	Plate	Manifest	Gross	Tare	Net	Units
2403708	1/4/2021	11:34 AM	07MUN107	AT813U	30729-010421-01	42.44	14.91	27.53	T
2404590	1/4/2021	3:09 PM	07MUN107	AT813U	30729-010421-02	43.87	14.91	28.96	T
2406665	1/7/2021	2:03 PM	07MUN107	AT813U	30729-010721-01	44.39	14.91	29.48	T
2412981	1/14/2021	12:09 PM	07MUN108	AT810U	30729-011421-01	43.19	14.97	28.22	T
2414098	1/15/2021	12:48 PM	07MUN89	AT385J	30729-011521-01	44.28	15.00	29.28	T
2445024	3/5/2021	11:53 AM	07MUN104	AT809U	30729-030521-01	44.80	14.97	29.83	T
2447036	3/5/2021	3:51 PM	07MUN104	AT809U	30729-030521-02	44.21	14.97	29.24	T
2459534	3/18/2021	11:43 AM	07MUN126		30729-031821-01	40.43	15.03	25.40	T
2460836	3/18/2021	3:31 PM	07MUN126		30729-031821-02	43.17	15.03	28.14	T
2478643	4/7/2021	11:38 AM	07AARCO472		30729-040721-01	47.53	17.86	29.67	T
2478512	4/8/2021	11:57 AM	07AARCO472		30729-040821-01	28.32	17.86	10.46	T
				Number of Loads	11		Sub Total	296.21	
				Total Number of Loads	11		Total	296.21	

Report Created 4/26/2021 4:50:23 PM

Waste Manifests

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

30729-010421-07

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-2 CM-2

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
HOLLIS, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP.
U.S. EPA ID Number: NJ NJP AT-8132

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 107
GLOBAL #156016

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/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Albert Albano		1	4	21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Juan C. Rivera	Juan C. Rivera	1	4	21

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
Juan C Rivera	Juan C Rivera	1	4	21

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) 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	Signature	Month	Day	Year
BG		1	4	21

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave
Carteret, NJ 07008

Ph: Fax:

Ticket: 2404590

	Date	Time	Scale
In:	01/04/2021	15:09:14	CEC
Out:	01/04/2021	15:09:14	CEC

	Lbs	Tn
Gross:	87740.00	43.87
Tare:	29820.00	14.91
Net:	57920.00	28.96

Manifest: 30729-010421-02
Vehicle: 07MUN107
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

CLEAN EARTH INTERNAL

30729-010421-01

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-1 CM-1

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
JAMAICA, NY 11423
Generator's Phone: 718

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP.
U.S. EPA ID Number: NJ SIC PLATE AT-8134

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 107
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S. Albano
Signature
Month: 1 Day: 4 Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Juan C. Rivera
Signature: Juan C. Rivera
Month: 1 Day: 4 Year: 21

Transporter 2 Printed/Typed Name: Juan C. Rivera
Signature: Juan C. Rivera
Month: 1 Day: 4 Year: 21

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)
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: BG
Signature
Month: 1 Day: 4 Year: 21

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2403708

	Date	Time	Scale
In:	01/04/2021	11:34:54	CEC
Out:	01/04/2021	11:34:54	CEC

	Lbs	Tn
Gross:	84880.00	42.44
Tare:	29820.00	14.91
Net:	55060.00	27.53

Manifest: 30729-010421-01
Vehicle: 07MUN107
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR 4th Avenue
Address: Jamaica, NY 10001

Carrier:
Profile #: 20207339 Power Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

CLEAN EARTH INTERNAL

1

30729-011521-01

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-386-5900	NHWM10801-5 CM-5

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
Generator's Phone: JS, NY 11423

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP. AT-385J
U.S. EPA ID Number: NJ Lic # AT-385J

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 89
GLOBAL #156016

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/Offeror's Printed/Typed Name: Albert S Albano
Signature
Month: 1 Day: 15 Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Munoz Trucking Corp.
Signature
Month: 1 Day: 15 Year: 21

Transporter 2 Printed/Typed Name: Munoz Trucking Corp
Signature
Month: 1 Day: 15 Year: 21

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)
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
Signature: BG
Month: 1 Day: 15 Year: 21

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2414098

	Date	Time	Scale
In:	01/15/2021	12:48:46	CEC
Out:	01/15/2021	12:48:46	CEC

	Lbs	Tn
Gross:	88560.00	44.28
Tare:	30000.00	15
Net:	58560.00	29.28

Manifest: 30729-011521-01
Vehicle: 07MUN89
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

CLEAN EARTH INTERNAL

30729-011421-01

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-4 CM-4

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 168TH STREET, 3RD FLOOR
JAMAICA, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP. — U.S. EPA ID Number: NJ LIC # AT-810V

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-6909
Facility's Phone: — U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 108
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S Albano — Signature — Month: 1 — Day: 14 — Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Fabian Rivera — Signature — Month: 1 — Day: 14 — Year: 21

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) — 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 — Signature — Month: 1 — Day: 14 — Year: 21

Printed in USA by GC Labels
1-800-997-6966

Reorder Part# MANIFEST-C6NHW
913-897-6966

TRANSPORTER #1

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2412981

	Date	Time	Scale
In:	01/14/2021	12:09:26	CEC
Out:	01/14/2021	12:09:26	CEC

	Lbs	Tn
Gross:	86380.00	43.19
Tare:	29940.00	14.97
Net:	56440.00	28.22

Manifest: 30729-011421-01
Vehicle: 07MUN100
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret
Barry Gibson

Driver:
Comment:

CLEAN EARTH INTERNAL

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

30729-010727-91

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-3 CM-3

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
JAMAICA, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP.
U.S. EPA ID Number: NJ LIC # AT-813U

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)			1		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 107
GLOBAL #156016

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/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Albert Albano		1	7	21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Juan C Rivera	Juan C. Rivera	1	7	21

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
Juan C. Rivera	Juan C. Rivera	1	7	21

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)	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	Signature	Month	Day	Year
BG		1	7	21

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2406665

	Date	Time	Scale
In:	01/07/2021	14:03:04	CEC
Out:	01/07/2021	14:03:04	CEC

	Lbs	Tn
Gross:	88780.00	44.39
Tare:	29820.00	14.91
Net:	58960.00	29.48

Manifest: 30729-010721-01
Vehicle: 07MUN107
Decal:
Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

CLEAN EA

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10601-7 CM-7

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

CEDAR MANOR SUBSTATION
DEAD END OF 138TH STREET SOUTH
JAMAICA, NY

Generator's Phone:

6. Transporter 1 Company Name — U.S. EP ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909

N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 104
GLOBAL # 157016

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/Offeror's Printed/Typed Name: Albert S. Albano — Signature — Month: 3 — Day: 5 — Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month: 3 — Day: 5 — Year: 21

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) — 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 — Signature — Month: 3 — Day: 5 — Year: 21

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2445024

	Date	Time	Scale
In:	03/05/2021	11:53:25	CEC
Out:	03/05/2021	11:53:25	CEC

	Lbs	Tn
Gross:	89600.00	44.8
Tare:	29940.00	14.97
Net:	59660.00	29.83

Manifest: 30729-030521-01
Vehicle: 07MUN104
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret
Barry Gibson

Driver:
Comment:

TRANSPORTER

30729-030521-01

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-6 CM-6

GENERATOR

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
JAMAICA, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MUNOZ TRUCKING CORP. #104 — U.S. EPA ID Number: NJ8090 NJT8090

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:

U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 104
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S Albano — Signature — Month: 3 — Day: 5 — Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Munoz / Acosta Ybailes — Signature — Month: 3 — Day: 5 — Year: 21

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) — 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 — Signature — Month — Day — Year

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

1 of 1

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07000

Ph: Fax:

Ticket: 2447036

	Date	Time	Scale
In:	03/05/2021	15:51:30	CEC
Out:	03/05/2021	15:51:30	CEC

Dump Time 04:00 PM

	Lbs	Tn
Gross:	88420.00	44.21
Tare:	29940.00	14.97
Net:	58480.00	29.24

Manifest: 30729-030521-02
Vehicle: 07MUN104
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 150th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

TRANSPORTER

30729-03121-02

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-9 CM-9

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
JAMAICA, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name
MUNOZ TRUCKING CORP.

U.S. EPA ID Number: NJ LIC. PLATE #

7. Transporter 2 Company Name

U.S. EPA ID Number: NW-8408

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
Facility's Phone: 732-541-8909

U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 20207 1329
JOB NO. 10801; TRUCK NO. 126
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S. Albano — Signature — Month 3 Day 18 Year 21

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edgar Rivera — Signature — 1:45p — Month 3 Day 18 Year 21

Transporter 2 Printed/Typed Name: Edgar Rivera — Signature — Month 3 Day 18 Year 21

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) — 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 — Signature — Month 3 Day 18 Year 21

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Printed in USA by GC Labels
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW
913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2460836

	Date	Time	Scale
In:	03/18/2021	15:31:58	CEC
Out:	03/18/2021	15:31:58	CEC

	Lbs	Tn
Gross:	86340.00	43.17
Tare:	30060.00	15.03
Net:	56280.00	28.14

Manifest: 30729-031821-02
Vehicle: 07MUN126
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret
Barry Gibson

Driver:
Comment:

TRANSPORTER

30729-031821-01

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
		631-586-3900	NHWM10801-8 CM-8

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
HOLLIS, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name
MUNOZ TRUCKING CORP.

U.S. EPA ID Number: NJ LIC PLATE

7. Transporter 2 Company Name

U.S. EPA ID Number: AW-840B

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:

U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)					
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. 126
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S. Albano — Signature — Month 3 Day 18 Year 21

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Edgar Rivera — Signature — Month 3 Day 18 Year 21

Transporter 2 Printed/Typed Name — Signature — Month Day Year

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) — 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: RG — Signature — Month 3 Day 18 Year 21

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Printed in USA by GC Labels 1-800-997-6966
Reorder Part# MANIFEST-C6NHW 913-897-6966

TRANSPORTER #1

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2459534

	Date	Time	Scale
In:	03/18/2021	11:43:19	CEC
Out:	03/18/2021	11:43:19	CEC

	Lbs	Tn
Gross:	80860.00	40.43
Tare:	30060.00	15.03
Net:	50800.00	25.4

Manifest: 30729-031821-21
Vehicle: 07MUN126
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

TRANSPORTER

30729-048721-01

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWEL0801-10 CM-10

5. Generator's Name and Mailing Address
ATT: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
HOLLIS, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 138TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name: MARCO ENVIRONMENTAL SERVICES CORP. — U.S. EPA ID Number: NY LIC # 60354-PC

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone: — U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED SOLIDS (SOIL)	001	CM	20	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. R472
GLOBAL #156016

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/Offeror's Printed/Typed Name: Albert Albano — Signature — Month 4 Day 7 Year 21

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ethan Klein — Signature — Month 4 Day 7 Year 21
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) — 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: BG — Signature — Month 4 Day 7 Year 21

Printed in USA by GC Labels — Reorder Part# MANIFEST-CSNHW

TRANSPORTER #1

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2478643

	Date	Time	Scale
In:	04/07/2021	11:38:42	CEC
Out:	04/07/2021	11:38:42	CEC

	Lbs	Tn
Gross:	95060.00	47.53
Tare:	35720.00	17.86
Net:	59340.00	29.67

Manifest: 30729-040721-01
Vehicle: 07AARCO472
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

TRANSPORTER

30729-040821-01

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM10801-11 CM-11

5. Generator's Name and Mailing Address
ATTN: ALBERT ALBANO, DEPT. OF PROGRAM MANAGEMENT
LONG ISLAND RAILROAD
93-59 183RD STREET, 3RD FLOOR
HOLLIS, NY 11423
Generator's Phone:

Generator's Site Address (if different than mailing address)
CEDAR MANOR SUBSTATION
DEAD END OF 158TH STREET SOUTH
JAMAICA, NY

6. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES CORP
U.S. EPA ID Number: NYD 986 060354-RC

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CLEAN EARTH OF CARTERET
24 MIDDLESEX AVE., CARTERET, NJ 07008
732-541-8909
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REGULATED SOLIDS (SOIL)	001	CM	10	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. APPROVAL # 203071329
JOB NO. 10801; TRUCK NO. R472
GLOBAL # 156016

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/Offeror's Printed/Typed Name: Albert S. Albano | Signature | Month: 4 | Day: 8 | Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sergio Mayorga | Signature | Month: 4 | Day: 8 | Year: 21

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) | 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: R G | Signature | Month: 4 | Day: 8 | Year: 21

Printed in USA by GC Labels 1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHW 913-897-6966

Clean Earth of Carteret
24 Middlesex Ave

Carteret, NJ 07008

Ph: Fax:

Ticket: 2478512

	Date	Time	Scale
In:	04/08/2021	11:57:55	CEC
Out:	04/08/2021	11:57:55	CEC

	Lbs	Tn
Gross:	56640.00	28.32
Tare:	35720.00	17.86
Net:	20920.00	10.46

Manifest: 30729-040821-01
Vehicle: 07AARCO472
Decal:

Customer: AARCO ENV. SERVICES CORP
Generator: MTA-LIRR
Address: 144-41 94th Avenue
Jamaica, NY 10001

Carrier:
Profile #: 203071329
Job: Cedar Manor Substation
Address: 158th St South - Dead End
Jamaica, NY 11434

Material: Recyclable soil/rock/material

Facility: Clean Earth of Carteret

Driver: Barry Gibson
Comment:

TRANSPORTER

APPENDIX F

Raw Analytical Laboratory Data

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Jill Haimson

Report Date: 10/24/2019
Client Project ID: AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)
York Project (SDG) No.: 19J0828

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 10/24/2019
Client Project ID: AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)
York Project (SDG) No.: 19J0828

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Jill Haimson

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 17, 2019 with a temperature of 4.8 C. The project was identified as your project: **AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19J0828-01	CM-Area9-DW-WC-1	Soil	10/17/2019	10/17/2019
19J0828-02	CM-Area9-DW-WC-1-VOC grab #1 (9-10')	Soil	10/17/2019	10/17/2019
19J0828-03	CM-Area7-DW-WC-2	Soil	10/17/2019	10/17/2019
19J0828-04	CM-Area7-DW-WC-2-VOC grab #2 (13-14')	Soil	10/17/2019	10/17/2019
19J0828-05	CM-CS-1	Soil	10/17/2019	10/17/2019
19J0828-06	CM-CS-1-VOC grab #2 (4-6')	Soil	10/17/2019	10/17/2019
19J0828-07	BS-CS-1	Soil	10/16/2019	10/17/2019
19J0828-08	BS-CS-1-VOC grab #7 (0-0.5')	Soil	10/16/2019	10/17/2019
19J0828-09	CS-FB-10-17-19	Water	10/17/2019	10/17/2019

General Notes for York Project (SDG) No.: 19J0828

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/24/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:33	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.7 %*	*77-125*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*	*85-120*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	106	212	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	106	212	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	106	212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	106	212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
65794-96-9	**3- & 4-Methylphenols**	**98.4**	J	ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	106	212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	106	212	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	106	212	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	106	212	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
83-32-9	Acenaphthene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
208-96-8	**Acenaphthylene**	**55.1**	J	ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
98-86-2	Acetophenone	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
62-53-3	Aniline	ND		ug/kg dry	213	425	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
120-12-7	**Anthracene**	**109**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
1912-24-9	Atrazine	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	213	425	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,PADEP	10/22/2019 16:35	SR
56-55-3	**Benzo(a)anthracene**	**362**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
50-32-8	**Benzo(a)pyrene**	**345**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
205-99-2	**Benzo(b)fluoranthene**	**315**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
191-24-2	**Benzo(g,h,i)perylene**	**381**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
207-08-9	**Benzo(k)fluoranthene**	**291**		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
65-85-0	Benzoic acid	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications:	10/21/2019 13:52 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 16:35	SR

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1280**		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	106	212	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**349**		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**86.5**	J	ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	**Di-n-octyl phthalate**	**61.9**	J	ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**545**		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**245**	CCV-H	ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	53.2	106	2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
85-01-8	**Phenanthrene**	**318**		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
108-95-2	Phenol	ND		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR
129-00-0	**Pyrene**	**530**		ug/kg dry	53.2	106	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 16:35	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*49.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*93.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.2 %*	*24-116*

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.43	20.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 12:40	SR
1319-77-3	Cresols, total	ND		ug/L	7.40	30.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	10/22/2019 13:31	10/23/2019 12:40	SR

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 12:40	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*55.4 %*	*10-90.9*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*38.7 %*	*10-69.2*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*78.4 %*	*19.2-141*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.8 %*	*24.8-127*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*110 %*	*23-163*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.9 %*	*25.8-110*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D	10/21/2019 13:52	10/22/2019 16:35	SR
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.09	5	EPA 8081B	10/21/2019 08:05	10/23/2019 14:02	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	2.09	5	EPA 8081B	10/21/2019 08:05	10/23/2019 14:02	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	2.09	5	EPA 8081B	10/21/2019 08:05	10/23/2019 14:02	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	2.09	5	EPA 8081B	10/21/2019 08:05	10/23/2019 14:02	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
5103-71-9	**alpha-Chlordane**	**5.50**		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 NELAC-NY10854,NJDEP	10/23/2019 14:02	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
57-74-9	Chlordane, total	ND		ug/kg dry	41.9	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
319-86-8	delta-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
60-57-1	**Dieldrin**	**10.7**		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
959-98-8	Endosulfan I	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854	10/23/2019 14:02	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
72-20-8	Endrin	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
5566-34-7	**gamma-Chlordane**	**3.05**		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 NELAC-NY10854,NJDEP	10/23/2019 14:02	CM
76-44-8	Heptachlor	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
72-43-5	Methoxychlor	ND		ug/kg dry	10.5	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM
8001-35-2	Toxaphene	ND		ug/kg dry	106	5	EPA 8081B Certifications:	10/21/2019 08:05 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/23/2019 14:02	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.5 %*	*30-150*

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	**Aroclor 1260**	**0.0426**		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	*** Total PCBs**	**0.0426**		mg/kg dry	0.0211	1	EPA 8082A	10/21/2019 08:05	10/23/2019 16:00	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.5 %*	*30-140*

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	25.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 19:51	SR
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	25.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 19:51	SR
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		ug/kg dry	25.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 19:51	SR
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*45.0 %*	*21-150*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	**1360**		mg/kg dry	12.3	1	EPA 8015D	10/21/2019 13:58	10/22/2019 19:40	ZZZ
							Certifications:	NELAC-NY10854,NJDEP,PADEP		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
638-68-6	*Surrogate: Triacontane*	*64.4 %*			*30-150*					

Beryllium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/kg dry	0.0638	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Copper by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**145**		mg/kg dry	2.55	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Copper, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.500	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.03**		mg/kg dry	1.92	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**299**		mg/kg dry	3.19	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**1.31**		mg/kg dry	0.383	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**15.2**		mg/kg dry	0.638	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**263**		mg/kg dry	0.638	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.19	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.638	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.656**		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**24.8**		mg/kg dry	1.28	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.250	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Vanadium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**23.6**		mg/kg dry	1.28	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**512**		mg/kg dry	3.19	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:54	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Zinc, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**2.08**		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:18	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**10.4**		mg/kg dry	0.0383	1	EPA 7473	10/21/2019 11:08	10/21/2019 15:07	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Mercury TCLP by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7473/1311	10/24/2019 10:29	10/24/2019 11:39	SY
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ignitability

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1030P	10/21/2019 10:21	10/21/2019 11:33	AD
							Certifications:			

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** ORP (Oxidation-Reduction Potential) (Ag/AgCl)**	**370**	HT-01	mV	-200	1	ASTM 1498-08 M	10/22/2019 09:55	10/22/2019 14:46	TJM
							Certifications:			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.3**		%	0.100	1	SM 2540G	10/21/2019 18:26	10/22/2019 11:06	STN
							Certifications: CTDOH			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.638	1	EPA 7196A	10/23/2019 09:50	10/23/2019 16:21	MSP
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**8.20**		pH units	0.500	1	EPA 9045D	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.638	1	EPA 9014/9010C	10/21/2019 14:20	10/21/2019 21:13	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

pH

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**6.31**		pH units	0.500	1	EPA 9045D	10/18/2019 09:28	10/18/2019 16:13	MSP
							Certifications: NELAC-NY10854,CTDOH,PADEP,NJDEP			

Reactivity-Cyanide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	10/21/2019 10:10	10/21/2019 12:56	STN
							Certifications: CTDOH,PADEP			

Reactivity-Sulfide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	10/21/2019 10:13	10/21/2019 14:10	TJM
							Certifications: CTDOH,PADEP			

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:41	10/22/2019 11:48	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area9-DW-WC-1 **York Sample ID:** 19J0828-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:39	10/22/2019 13:06	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:18	10/22/2019 11:05	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Temperature

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Temperature**	**23.1**		°C	1.00	1	EPA 170.1	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications:			

Sample Information

Client Sample ID: CM-Area9-DW-WC-1-VOC grab #1 (9-10') **York Sample ID:** 19J0828-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: CM-Area9-DW-WC-1-VOC grab #1 (9-10')

York Sample ID: 19J0828-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 14:50	RDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
78-93-3	2-Butanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
67-64-1	Acetone	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS

Sample Information

Client Sample ID: CM-Area9-DW-WC-1-VOC grab #1 (9-10')

York Sample ID: 19J0828-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
98-82-8	Isopropylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 14:50	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 14:50	RDS

Sample Information

Client Sample ID: CM-Area9-DW-WC-1-VOC grab #1 (9-10')

York Sample ID: 19J0828-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	25	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C	10/21/2019 07:30	10/21/2019 14:50	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*

Sample Information

Client Sample ID: CM-Area9-DW-WC-1-VOC grab #1 (9-10') **York Sample ID:** 19J0828-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:00 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*130 %*	IS-LO		*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	10/21/2019 07:30	10/21/2019 14:50	RDS

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.3**		%	0.100	1	SM 2540G Certifications: CTDOH	10/21/2019 18:26	10/22/2019 11:06	STN

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 16:58	SS

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:58	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:58	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:58	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:58	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 16:58	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.6 %*	*77-125*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.0 %*	*85-120*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,PADEP		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	172	345	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	172	345	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	86.1	172	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	Pyrene	ND		ug/kg dry	43.1	86.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*61.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*50.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*92.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*76.2 %*	*24-116*

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: NELAC-NY10854,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.43	20.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1319-77-3	Cresols, total	ND		ug/L	7.40	30.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854			
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:12	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.6 %*	*10-90.9*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*37.7 %*	*10-69.2*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.3 %*	*19.2-141*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.5 %*	*24.8-127*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*107 %*	*23-163*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*76.9 %*	*25.8-110*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:07	SR
								Certifications:			

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	34.1	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.70	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	8.52	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	86.2	5	EPA 8081B	10/21/2019 14:00	10/23/2019 14:20	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*100 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:24	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.5 %*	*30-140*

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:01	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:01	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/kg dry	20.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:01	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*82.4 %*	*21-150*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	**16.6**		mg/kg dry	10.3	1	EPA 8015D	10/21/2019 13:58	10/22/2019 20:10	ZZZ
							Certifications: NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*66.5 %*	*30-150*

Beryllium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Beryllium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/kg dry	0.0523	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Copper by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**6.62**		mg/kg dry	2.09	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Copper, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.500	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.57	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**18.7**		mg/kg dry	2.62	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/kg dry	0.314	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**6.74**		mg/kg dry	0.523	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**4.76**		mg/kg dry	0.523	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.62	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.523	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**5.85**		mg/kg dry	1.05	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.250	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Vanadium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**7.92**		mg/kg dry	1.05	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**24.4**		mg/kg dry	2.62	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:21	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.745**		mg/kg dry	0.0314	1	EPA 7473	10/21/2019 11:08	10/21/2019 13:40	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Mercury TCLP by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7473/1311	10/24/2019 10:29	10/24/2019 11:50	SY
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ignitability

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1030P	10/21/2019 10:21	10/21/2019 11:33	AD
							Certifications:			

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** ORP (Oxidation-Reduction Potential) (Ag/AgCl)**	**360**	HT-01	mV	-200	1	ASTM 1498-08 M	10/22/2019 09:55	10/22/2019 14:46	TJM
							Certifications:			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.6**		%	0.100	1	SM 2540G	10/21/2019 18:26	10/22/2019 11:06	STN
							Certifications: CTDOH			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.523	1	EPA 7196A	10/23/2019 09:50	10/23/2019 16:21	MSP
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**8.28**		pH units	0.500	1	EPA 9045D	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.523	1	EPA 9014/9010C	10/21/2019 14:20	10/21/2019 21:13	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**6.93**		pH units	0.500	1	EPA 9045D	10/18/2019 09:28	10/18/2019 16:13	MSP
							Certifications: NELAC-NY10854,CTDOH,PADEP,NJDEP			

Reactivity-Cyanide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	10/21/2019 10:10	10/21/2019 12:56	STN
							Certifications: CTDOH,PADEP			

Reactivity-Sulfide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Reactivity - Sulfide**	**16.0**		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	10/21/2019 10:13	10/21/2019 14:10	TJM
							Certifications: CTDOH,PADEP			

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:41	10/22/2019 11:48	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:39	10/22/2019 13:06	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:18	10/22/2019 11:05	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2 **York Sample ID:** 19J0828-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Temperature **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	23.1		°C	1.00	1	EPA 170.1	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications:			

Sample Information

Client Sample ID: CM-Area7-DW-WC-2-VOC grab #2 (13-14') **York Sample ID:** 19J0828-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2-VOC grab #2 (13-14') **York Sample ID:** 19J0828-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	99	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
78-93-3	2-Butanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	Acetone	ND		ug/kg dry	4.9	9.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CM-Area7-DW-WC-2-VOC grab #2 (13-14')

York Sample ID: 19J0828-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
74-87-3	Chloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 15:16	RDS
75-09-2	**Methylene chloride**	**7.9**	J	ug/kg dry	4.9	9.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/21/2019 15:16	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/21/2019 15:16	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:16	RDS

Sample Information

Client Sample ID: CM-Area7-DW-WC-2-VOC grab #2 (13-14') **York Sample ID:** 19J0828-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	25	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.7 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.3 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:16	RDS
								Certifications:			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CM-Area7-DW-WC-2-VOC grab #2 (13-14') **York Sample ID:** 19J0828-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 11:45 am	10/17/2019

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.3		%	0.100	1	SM 2540G Certifications: CTDOH	10/21/2019 18:26	10/22/2019 11:06	STN

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	10/22/2019 07:30	10/22/2019 17:23	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.2 %*	*77-125*

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*			*76-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.1 %*			*85-120*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	89.9	180	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	89.9	180	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	89.9	180	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	180	360	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**54.6**	J	ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	180	360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
56-55-3	**Benzo(a)anthracene**	**233**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
50-32-8	**Benzo(a)pyrene**	**259**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
205-99-2	**Benzo(b)fluoranthene**	**259**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
191-24-2	**Benzo(g,h,i)perylene**	**172**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
207-08-9	**Benzo(k)fluoranthene**	**220**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
65-85-0	Benzoic acid	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**456**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
105-60-2	Caprolactam	ND		ug/kg dry	89.9	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
86-74-8	Carbazole	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
218-01-9	**Chrysene**	**232**		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
53-70-3	**Dibenzo(a,h)anthracene**	**59.6**	J	ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.1	89.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 17:39	SR

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**368**		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**188**	CCV-H	ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**156**		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**338**		ug/kg dry	45.1	89.9	2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*46.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*43.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*52.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*81.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.9 %*	*24-116*

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: NELAC-NY10854,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.43	20.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1319-77-3	Cresols, total	ND		ug/L	7.40	30.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854			
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 13:44	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.4 %*	*10-90.9*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*39.1 %*	*10-69.2*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*83.6 %*	*19.2-141*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.5 %*	*24.8-127*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*120 %*	*23-163*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*87.5 %*	*25.8-110*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D	10/21/2019 13:52	10/22/2019 17:39	SR
								Certifications:			

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
57-74-9	Chlordane, total	ND		ug/kg dry	35.7	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.78	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/kg dry	8.92	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	90.3	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:37	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	**Aroclor 1260**	**0.0495**		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	*** Total PCBs**	**0.0495**		mg/kg dry	0.0180	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:38	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*94.0 %*	*30-140*

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:12	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:12	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/kg dry	21.7	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:12	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*90.6 %*			*21-150*					

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	**42.3**		mg/kg dry	10.5	1	EPA 8015D	10/21/2019 13:58	10/22/2019 20:40	ZZZ
							Certifications: NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*65.6 %*	*30-150*

Beryllium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/kg dry	0.0544	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Copper by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**53.4**		mg/kg dry	2.18	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Copper, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.500	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.63	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**57.4**		mg/kg dry	2.72	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.785**		mg/kg dry	0.327	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**12.5**		mg/kg dry	0.544	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**123**		mg/kg dry	0.544	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.721**		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**0.154**		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**11.0**		mg/kg dry	1.09	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nickel, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.250	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Vanadium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Vanadium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**16.4**		mg/kg dry	1.09	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**168**		mg/kg dry	2.72	1	EPA 6010D	10/21/2019 13:53	10/23/2019 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**1.06**		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:24	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**13.5**		mg/kg dry	0.0327	1	EPA 7473	10/21/2019 11:08	10/21/2019 15:17	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Mercury TCLP by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7473/1311	10/24/2019 10:29	10/24/2019 12:05	SY
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ignitability

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1030P	10/21/2019 10:21	10/21/2019 11:33	AD
							Certifications:			

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** ORP (Oxidation-Reduction Potential) (Ag/AgCl)**	**350**	HT-01	mV	-200	1	ASTM 1498-08 M	10/22/2019 09:55	10/22/2019 14:46	TJM
							Certifications:			

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.9**		%	0.100	1	SM 2540G	10/22/2019 14:19	10/22/2019 23:46	MAO
							Certifications: CTDOH			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.544	1	EPA 7196A	10/23/2019 09:50	10/23/2019 16:21	MSP
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.01**		pH units	0.500	1	EPA 9045D	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.544	1	EPA 9014/9010C	10/21/2019 14:20	10/21/2019 21:13	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

pH

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.70**		pH units	0.500	1	EPA 9045D	10/18/2019 09:28	10/18/2019 16:13	MSP
							Certifications: NELAC-NY10854,CTDOH,PADEP,NJDEP			

Reactivity-Cyanide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	10/21/2019 10:10	10/21/2019 12:56	STN
							Certifications: CTDOH,PADEP			

Reactivity-Sulfide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	10/21/2019 10:13	10/21/2019 14:10	TJM
							Certifications: CTDOH,PADEP			

Sample Information

Client Sample ID: CM-CS-1 **York Sample ID:** 19J0828-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:41	10/22/2019 11:48	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:39	10/22/2019 13:06	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:18	10/22/2019 11:05	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Temperature

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Temperature**	**23.1**		°C	1.00	1	EPA 170.1	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications:			

Sample Information

Client Sample ID: CM-CS-1-VOC grab #2 (4-6') **York Sample ID:** 19J0828-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: CM-CS-1-VOC grab #2 (4-6')

York Sample ID: 19J0828-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	48	97	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	Acetone	ND		ug/kg dry	4.8	9.7	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	4.8	9.7	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CM-CS-1-VOC grab #2 (4-6')

York Sample ID: 19J0828-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CM-CS-1-VOC grab #2 (4-6')

York Sample ID: 19J0828-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 15:43	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 15:43	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	4.8	9.7	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/21/2019 15:43	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.7	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/21/2019 15:43	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	24	1	EPA 8260C Certifications:	10/21/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	10/21/2019 15:43	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH	10/21/2019 15:43	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications:	10/21/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 15:43	RDS

Sample Information

Client Sample ID: CM-CS-1-VOC grab #2 (4-6') **York Sample ID:** 19J0828-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 17, 2019 12:15 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.0 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C	10/21/2019 07:30	10/21/2019 15:43	RDS
								Certifications:			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.3**		%	0.100	1	SM 2540G	10/22/2019 14:19	10/22/2019 23:46	MAO
							Certifications: CTDOH			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1			
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, TCLP RCRA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311	10/22/2019 07:30	10/22/2019 17:49	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.1 %*	*77-125*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*	*76-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*85-120*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,PADEP		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **BS-CS-1** **York Sample ID:** **19J0828-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	**2-Methylnaphthalene**	**54.0**	J	ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.1	190	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **BS-CS-1** **York Sample ID:** **19J0828-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
83-32-9	**Acenaphthene**	**125**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/kg dry	190	381	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
120-12-7	**Anthracene**	**223**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
1912-24-9	Atrazine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	190	381	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,PADEP	SR
56-55-3	**Benzo(a)anthracene**	**690**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
50-32-8	**Benzo(a)pyrene**	**653**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
205-99-2	**Benzo(b)fluoranthene**	**593**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
191-24-2	**Benzo(g,h,i)perylene**	**374**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
207-08-9	**Benzo(k)fluoranthene**	**538**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 NELAC-NY10854,NJDEP,PADEP	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications:	10/21/2019 13:52	10/22/2019 18:11 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: **BS-CS-1** **York Sample ID:** **19J0828-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
86-74-8	**Carbazole**	**79.8**	J	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
218-01-9	**Chrysene**	**631**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
53-70-3	**Dibenzo(a,h)anthracene**	**135**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
206-44-0	**Fluoranthene**	**1330**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
86-73-7	**Fluorene**	**88.2**	J	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**437**	CCV-H	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
78-59-1	Isophorone	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
91-20-3	Naphthalene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR

Sample Information

Client Sample ID: **BS-CS-1** **York Sample ID:** **19J0828-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
85-01-8	**Phenanthrene**	**830**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
108-95-2	Phenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR
129-00-0	**Pyrene**	**1090**		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 13:52	10/22/2019 18:11	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*43.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*42.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*43.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*48.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*81.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.7 %*	*24-116*

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311 Certifications: NELAC-NY10854,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.43	20.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
1319-77-3	Cresols, total	ND		ug/L	7.40	30.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	10/22/2019 13:31	10/23/2019 14:17	SR
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/22/2019 13:31	10/23/2019 14:17	SR

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 14:17	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	10/22/2019 13:31	10/23/2019 14:17	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*50.3 %*	*10-90.9*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*35.1 %*	*10-69.2*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.9 %*	*19.2-141*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.2 %*	*24.8-127*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*103 %*	*23-163*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.4 %*	*25.8-110*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D	10/21/2019 13:52	10/22/2019 18:11	SR
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	37.9	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	9.47	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	95.8	5	EPA 8081B	10/21/2019 14:00	10/24/2019 08:55	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A	10/21/2019 14:00	10/22/2019 18:51	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*59.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-140*

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	23.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:33	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	23.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:33	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/kg dry	23.1	1	EPA 8151A	10/21/2019 08:13	10/21/2019 20:33	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*60.0 %*	*21-150*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	**28.5**		mg/kg dry	10.8	1	EPA 8015D	10/21/2019 13:58	10/22/2019 21:11	ZZZ
							Certifications: NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*61.9 %*	*30-150*

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Beryllium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/kg dry	0.0579	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Copper by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**65.7**		mg/kg dry	2.32	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Copper, TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.500	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**23.7**		mg/kg dry	1.74	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**53.4**		mg/kg dry	2.90	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/kg dry	0.348	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**15.1**		mg/kg dry	0.579	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**39.5**		mg/kg dry	0.579	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.90	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.579	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	Barium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **BS-CS-1** **York Sample ID:** **19J0828-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**13.5**		mg/kg dry	1.16	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nickel, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.250	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Vanadium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	1.16	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**81.4**		mg/kg dry	2.90	1	EPA 6010D	10/21/2019 13:53	10/23/2019 13:08	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Zinc, TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.625	1	EPA 6010D/1311	10/22/2019 14:20	10/22/2019 20:27	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.34**		mg/kg dry	0.0348	1	EPA 7473	10/21/2019 11:08	10/21/2019 14:25	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Mercury TCLP by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7473/1311	10/24/2019 10:29	10/24/2019 12:13	SY
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ignitability

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1030P	10/21/2019 10:21	10/21/2019 11:33	AD
							Certifications:			

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** ORP (Oxidation-Reduction Potential) (Ag/AgCl)**	**350**	HT-01	mV	-200	1	ASTM 1498-08 M	10/22/2019 09:55	10/22/2019 14:46	TJM
							Certifications:			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.3**		%	0.100	1	SM 2540G	10/22/2019 14:19	10/22/2019 23:46	MAO
							Certifications: CTDOH			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.579	1	EPA 7196A	10/23/2019 09:50	10/23/2019 16:21	MSP
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**9.77**		pH units	0.500	1	EPA 9045D	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.579	1	EPA 9014/9010C	10/21/2019 14:20	10/21/2019 21:13	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

pH

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.11**		pH units	0.500	1	EPA 9045D	10/18/2019 09:28	10/18/2019 16:13	MSP
							Certifications: NELAC-NY10854,CTDOH,PADEP,NJDEP			

Reactivity-Cyanide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	10/21/2019 10:10	10/21/2019 12:56	STN
							Certifications: CTDOH,PADEP			

Reactivity-Sulfide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Reactivity - Sulfide**	**16.0**		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	10/21/2019 10:13	10/21/2019 14:10	TJM
							Certifications: CTDOH,PADEP			

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:41	10/22/2019 11:48	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:39	10/22/2019 13:06	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	10/21/2019 16:18	10/22/2019 11:05	TAJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: BS-CS-1 **York Sample ID:** 19J0828-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Temperature **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Temperature	23.1		°C	1.00	1	EPA 170.1	10/21/2019 09:38	10/21/2019 13:20	TJM
							Certifications:			

Sample Information

Client Sample ID: BS-CS-1-VOC grab #7 (0-0.5') **York Sample ID:** 19J0828-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: BS-CS-1-VOC grab #7 (0-0.5')

York Sample ID: 19J0828-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	62	120	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	Acetone	ND		ug/kg dry	6.2	12	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.2	12	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **BS-CS-1-VOC grab #7 (0-0.5')** **York Sample ID:** **19J0828-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-09-2	Methylene chloride	ND		ug/kg dry	6.2	12	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: BS-CS-1-VOC grab #7 (0-0.5')

York Sample ID: 19J0828-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	31	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C	10/21/2019 07:30	10/21/2019 16:10	RDS
								Certifications:			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **BS-CS-1-VOC grab #7 (0-0.5')** **York Sample ID:** **19J0828-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Soil	October 16, 2019 12:30 pm	10/17/2019

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.6		%	0.100	1	SM 2540G Certifications: CTDOH	10/22/2019 14:19	10/22/2019 23:46	MAO

Sample Information

Client Sample ID: **CS-FB-10-17-19** **York Sample ID:** **19J0828-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 07:30	10/21/2019 13:18	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 07:30	10/21/2019 13:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	10/21/2019 07:30	10/21/2019 13:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/21/2019 07:30	10/21/2019 13:18	SS

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	10	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*90.6 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L		1	EPA 8260C	10/21/2019 07:30	10/21/2019 13:18	SS
							Certifications:			

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,PADEP	10/21/2019 18:04	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,PADEP	10/21/2019 18:04	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,PADEP	10/21/2019 18:04	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
95-57-8	2-Chlorophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
95-48-7	2-Methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
88-74-4	2-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR
88-75-5	2-Nitrophenol	ND		ug/L	3.57	7.14	1	EPA 8270D Certifications:	10/18/2019 08:31 CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2019 18:04	SR

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.714	0.714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/L	14.3	28.6	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	35.7	71.4	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCV-L	ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**2.47**		ug/L	0.714	0.714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0286	0.0286	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.714	0.714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/L	0.714	0.714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/L	0.357	0.357	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.714	0.714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/L	0.357	0.357	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	3.57	7.14	1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	Pyrene	ND		ug/L	0.0714	0.0714	1	EPA 8270D	10/18/2019 08:31	10/21/2019 12:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*37.3 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*24.0 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*63.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.3 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*77.6 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*71.9 %*	*30.7-106*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/L			1	EPA 8270D	10/18/2019 08:31	10/21/2019 18:04	SR
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
57-74-9	Chlordane, total	ND		ug/L	0.0211	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00211	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/L	0.0105	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0105	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/L	0.00421	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/L	0.105	1	EPA 8081B	10/22/2019 08:53	10/23/2019 17:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		ug/L	0.0526	1	EPA 8082A	10/22/2019 08:53	10/22/2019 15:41	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*98.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*124 %*	*30-120*

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Herbicides, NJDEP/TCL/Part 375 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	10/23/2019 08:39	10/23/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	10/23/2019 08:39	10/23/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	10/23/2019 08:39	10/23/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*83.6 %*	*30-150*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	ND		mg/L	0.108	1	EPA 8015D	10/22/2019 13:37	10/23/2019 11:34	CM
							Certifications: NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*83.0 %*	*40-150*

Beryllium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Copper by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, RCRA (no Hg) by 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Metals, RCRA (no Hg) by 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	Chromium	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	* Silver	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH		

Nickel by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Vanadium by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Zinc by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**15.0**	B	ug/L	1.11	1	EPA 6020B	10/21/2019 12:41	10/21/2019 17:58	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	10/23/2019 10:21	10/23/2019 10:48	SY
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Ignitability

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Ignitability

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1010A Certifications:	10/21/2019 13:10	10/21/2019 13:11	AD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** ORP (Oxidation-Reduction Potential) (Ag/AgCl)**	**380**	HT-01	mV	1.0	1	ASTM 1498-08 M Certifications:	10/22/2019 09:58	10/22/2019 11:22	TJM

Chromium, Hexavalent

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/17/2019 20:55	10/17/2019 21:00	MAO

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** pH**	**6.74**	HT-01	pH units	0.500	1	SM 4500 H+B Certifications:	10/22/2019 09:58	10/22/2019 11:23	TJM

Cyanide, Total

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/21/2019 09:29	10/21/2019 12:46	STN

pH

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** pH**	**6.74**	HT-01	pH units	0.500	1	SM 4500 H+B Certifications: CTDOH	10/22/2019 09:58	10/22/2019 11:23	TJM

Reactivity-Cyanide

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/L	0.0250	1	EPA SW-846 Ch.7.3.3 Certifications:	10/22/2019 10:08	10/22/2019 14:11	TJM

Sample Information

Client Sample ID: CS-FB-10-17-19 **York Sample ID:** 19J0828-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0828	AARC-19-018 Group D Substn Rem (Bayside&Cedar Mnr)	Water	October 17, 2019 12:45 pm	10/17/2019

Reactivity-Sulfide

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/L	15.0	1	EPA SW-846 Ch.7.3.4 Certifications:	10/22/2019 10:08	10/22/2019 14:11	TJM

Temperature

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Temperature**	**14.0**	HT-01	°C	1.00	1	EPA 170.1 Certifications:	10/22/2019 09:58	10/22/2019 11:23	TJM

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0828-01	CM-Area9-DW-WC-1	40mL 01_Clear Vial Cool to 4° C
19J0828-02	CM-Area9-DW-WC-1-VOC grab #1 (9-10')	40mL Vial with Stir Bar-Cool 4° C
19J0828-03	CM-Area7-DW-WC-2	40mL 01_Clear Vial Cool to 4° C
19J0828-04	CM-Area7-DW-WC-2-VOC grab #2 (13-14')	40mL Vial with Stir Bar-Cool 4° C
19J0828-05	CM-CS-1	40mL 01_Clear Vial Cool to 4° C
19J0828-06	CM-CS-1-VOC grab #2 (4-6')	40mL Vial with Stir Bar-Cool 4° C
19J0828-07	BS-CS-1	40mL 01_Clear Vial Cool to 4° C
19J0828-08	BS-CS-1-VOC grab #7 (0-0.5')	40mL Vial with Stir Bar-Cool 4° C
19J0828-09	CS-FB-10-17-19	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
IGN-01	Non-Ignit.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-COMP	Completed
CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19J0878

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Preferred Environmental services	Company:	Company:	AARC-19-018	RUSH - Next Day
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same		RUSH - Two Day
Phone.: 516-546-1100	Phone.:	Phone.:	YOUR Project Name: Group D Substation Remediation (Bayside + Cedar Manor	RUSH - Three Day
Contact: JHamson@PreferredENV.com	Contact:	Contact:		RUSH - Four Day
E-mail: BSane, BComey@PreferredENV.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryan Comey

Samples Collected by: (print your name above and sign below)

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut		NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania		NY ASP B Package		NJDEP SRP HazSite	
O - Oil ; Other	Other			NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-Area9-DW-WC-1 grab	S	10-17-19 1100	Ny+NJRDCSCC VOC's, SVOC's, TPH, RCRA Characteristics	(2) 8oz
CM-Area9-DW-WC-1-VOC#1 (9-10')	S	1100	Total Metals (RCRA + BE, CU, NI, ZN, Va, Cn, Hex Chrom)	(1) VOA kit
CM-Area7-DW-WC-2	S	11:45	TCLP Metals (RCRA + Cu, NI, ZN), PCB's, TCLP VOC's	(2) 8oz
CM-Area7-DW-WC-2-VOC#2 (13-14') grab	S	11:45	TCLP SVOC's, [redacted] Total Pest + Herb	(1) VOC kit
CM-CS-1	S	12:15		(2) 8oz
CM-CS-1-VOC#2 (4-6') grab grab	S	12:15		(1) VOC kit
BS-CS-1 grab	S	10-16-19 12:30		(2) 8oz
BS-CS-1-VOC#7 (0-0.5')	S	12:30		(1) VOC kit
CS-FB-10-17-19	[redacted]O	10-17-19 12:45		2 amber, 1250, 1250 340mL HCL, HNO3

Comments:

Preservation: (check all that apply)
HCl X MeOH X HNO3 X H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	10-17-19 1445	Pat York	10-17-19 17:01 14:45	Pat York	10-17-19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	10/17/19 15:20		10:17-19 1910		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Hale	10/17/19 1910 / 4.8 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 12/18/2020
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 20L0916

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/18/2020
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 20L0916

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 16, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20L0916-01	CM-EP 12-13 4 ft	Soil	12/16/2020	12/16/2020

General Notes for York Project (SDG) No.: 20L0916

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/18/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP 12-13 4 ft** **York Sample ID:** **20L0916-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20L0916	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	December 16, 2020 12:00 am	12/16/2020

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.00**		mg/kg dry	0.0323	1	EPA 7473	12/16/2020 20:58	12/16/2020 22:57	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.0**		%	0.100	1	SM 2540G	12/18/2020 09:27	12/18/2020 18:30	ALH
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BL01019 **Preparation Method:** EPA 7473 soil **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20L0916-01	CM-EP 12-13 4 ft	12/16/20
BL01019-BLK1	Blank	12/16/20
BL01019-SRM1	Reference	12/16/20

Batch ID: BL01081 **Preparation Method:** % Solids Prep **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
20L0916-01	CM-EP 12-13 4 ft	12/18/20

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL01019 - EPA 7473 soil											
Blank (BL01019-BLK1)									Prepared & Analyzed: 12/16/2020		
Mercury	ND	0.0300	mg/kg wet								
Reference (BL01019-SRM1)									Prepared & Analyzed: 12/16/2020		
Mercury	3.2127		mg/kg	3.71		86.6	65-135				

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20L0916

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV	Company:	Company:
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-946-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: Bschlageter@; BComey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: AAFC-19-018

YOUR Project Name: LRR Group 3 Substations Cedar Manor

YOUR PO#:

Turn-Around Time
- ~~RUSH - Next Day~~ X
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- **Standard (5-7 Day)** X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Comey

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ; Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-12-BCH1)	S	12-16-20	Total Mercury Via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Comey	12-16-20 1332	~~K. Hooker~~ / York -0.7 °C	12/16/20 13:32 hrs	~~K. Hooker~~ / York	
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Ed / Lr	12/16/20 1615	Ed / Lr	12/16/20 2010		
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** Date/Time	**Temp. Received at Lab**
				T Gale 12/16/2020 2010	2.4 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 12/31/2020
Client Project ID: AARC-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 20L1331

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/31/2020
Client Project ID: AARC-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 20L1331

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 30, 2020 and listed below. The project was identified as your project: **AARC-19-018 LIRR group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20L1331-01	CM-EP10-BC 6ft	Soil	12/30/2020	12/30/2020

General Notes for York Project (SDG) No.: 20L1331

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/31/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP10-BC 6ft** **York Sample ID:** **20L1331-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20L1331	AARC-19-018 LIRR group D Substations Cedar Manor	Soil	December 30, 2020 11:58 am	12/30/2020

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0340	1	EPA 7471B	12/30/2020 20:32	12/30/2020 20:32	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**97.0**		%	0.100	1	SM 2540G	12/31/2020 08:56	12/31/2020 16:42	ALH
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BL01685 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20L1331-01	CM-EP10-BC 6ft	12/30/20
BL01685-BLK1	Blank	12/30/20
BL01685-DUP1	Duplicate	12/30/20
BL01685-MS1	Matrix Spike	12/30/20
BL01685-SRM1	Reference	12/30/20

Batch ID: BL01692 **Preparation Method:** % Solids Prep **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
20L1331-01	CM-EP10-BC 6ft	12/31/20

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL01685 - EPA SW846-7471B											
Blank (BL01685-BLK1)								Prepared & Analyzed: 12/30/2020			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BL01685-DUP1)	*Source sample: 20L1331-01 (CM-EP10-BC 6ft)							Prepared & Analyzed: 12/30/2020			
Mercury	ND	0.0340	mg/kg dry		ND					35	
Matrix Spike (BL01685-MS1)	*Source sample: 20L1331-01 (CM-EP10-BC 6ft)							Prepared & Analyzed: 12/30/2020			
Mercury	0.345	0.0340	mg/kg dry	0.344	ND	100	75-125				
Reference (BL01685-SRM1)								Prepared & Analyzed: 12/30/2020			
Mercury	3.65	0.330	mg/kg wet	4.85		75.3	46-107				

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20L1331

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred Environmental	Company:	Company:
Address: 323 Merrick ave. N Merrick Ny	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BSchlageter@; BCorney@PreferredEnv.com	E-mail:	E-mail:

YOUR Project Number: AArc-19-018

YOUR Project Name: LIRR-group D Substations Cedar Manor.

YOUR PO#:

Turn-Around Time
- X RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- **Standard (5-7 Day)**

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryan Corney
Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | QA Report | NY ASP A Package | NY ASP B Package
CT RCP | CT RCP DQA/DUE | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | EQuIS (Standard) | NYSDEC EQuIS | NJDEP SRP HazSite | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-10-BCG1	S	12-30-20 1158	Total Mercury Via 7471A.	(1) 4oz

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Corney/Preferred	12-30-20 15:01	/York	12/30/20 15:01 +0.5		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Jeremy S / York	12/30/20 16:15	Jeremy S / York	12/30/20 1834		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				12/30/2020 1834	1.1 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 01/08/2021
Client Project ID: AARC-19-018 Lirr group D substations Cedar Manor
York Project (SDG) No.: 21A0233

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/08/2021
Client Project ID: AARC-19-018 Lirr group D substations Cedar Manor
York Project (SDG) No.: 21A0233

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 07, 2021 and listed below. The project was identified as your project: **AARC-19-018 Lirr group D substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21A0233-01	CM-EP-11-B(6ft)	Soil	01/07/2021	01/07/2021

General Notes for York Project (SDG) No.: 21A0233

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/08/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-11-B(6ft)** **York Sample ID:** **21A0233-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A0233	AARC-19-018 Lirr group D substations Cedar Manor	Soil	January 7, 2021 1:52 pm	01/07/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0346	1	EPA 7471B	01/08/2021 13:00	01/08/2021 13:00	AD
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.3**		%	0.100	1	SM 2540G	01/08/2021 08:34	01/08/2021 11:35	OT
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BA10298 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21A0233-01	CM-EP-11-B(6ft)	01/08/21
BA10298-DUP1	Duplicate	01/08/21

Batch ID: BA10345 **Preparation Method:** EPA SW846-7471B **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
21A0233-01	CM-EP-11-B(6ft)	01/08/21
BA10345-BLK1	Blank	01/08/21
BA10345-DUP1	Duplicate	01/08/21
BA10345-MS1	Matrix Spike	01/08/21
BA10345-SRM1	Reference	01/08/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA10345 - EPA SW846-7471B											
Blank (BA10345-BLK1)								Prepared & Analyzed: 01/08/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BA10345-DUP1)	*Source sample: 21A0233-01 (CM-EP-11-B(6ft))							Prepared & Analyzed: 01/08/2021			
Mercury	ND	0.0346	mg/kg dry		ND					35	
Matrix Spike (BA10345-MS1)	*Source sample: 21A0233-01 (CM-EP-11-B(6ft))							Prepared & Analyzed: 01/08/2021			
Mercury	0.342	0.0346	mg/kg dry	0.350	ND	97.7	75-125				
Reference (BA10345-SRM1)								Prepared & Analyzed: 01/08/2021			
Mercury	3.48	0.330	mg/kg wet	4.85		71.8	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA10298 - % Solids Prep											
Duplicate (BA10298-DUP1)	*Source sample: 21A0233-01 (CM-EP-11-B(6ft))							Prepared & Analyzed: 01/08/2021			
% Solids	94.9	0.100	%		95.3				0.319	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21A0733

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV	Company:	Company:
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BComey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: AArc-19-018

YOUR Project Name: Elec grup D substations Cedar Manor

YOUR PO#:

Turn-Around Time
- RUSH - Next Day (X)
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryon Comey

Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-11-BC(1)	S	1-7-21 1352	Total Mercury via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Comey/Preferred	1-7-21 1447	K. Hardee/York 47°F on ice	01/07/21 14:48hrs	K. Hardee/York	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Ed/York	1/7/21 1500	Ed/York	1/7/21 1728		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				TC 1/7/21 1728	1.0 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 01/15/2021
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21A0563

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/15/2021
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21A0563

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 14, 2021 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21A0563-01	CM-EP-08 B(1ft)	Soil	01/14/2021	01/14/2021
21A0563-02	CMSW-02	Soil	01/14/2021	01/14/2021
21A0563-03	CMSW-01	Soil	01/14/2021	01/14/2021

General Notes for York Project (SDG) No.: 21A0563

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/15/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-08 B(1ft)** **York Sample ID:** **21A0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A0563	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 14, 2021 1:21 pm	01/14/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.223**		mg/kg dry	0.0391	1	EPA 7471B	01/15/2021 00:33	01/15/2021 00:33	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.3**		%	0.100	1	SM 2540G	01/15/2021 08:41	01/15/2021 12:50	SK
							Certifications: CTDOH			

Sample Information

Client Sample ID: **CMSW-02** **York Sample ID:** **21A0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A0563	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 14, 2021 1:18 pm	01/14/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0346	1	EPA 7471B	01/15/2021 00:33	01/15/2021 00:33	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.3**		%	0.100	1	SM 2540G	01/15/2021 08:41	01/15/2021 12:50	SK
							Certifications: CTDOH			

Sample Information

Client Sample ID: **CMSW-01** **York Sample ID:** **21A0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A0563	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 14, 2021 1:25 pm	01/14/2021

Sample Information

Client Sample ID: **CMSW-01** **York Sample ID:** **21A0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A0563	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 14, 2021 1:25 pm	01/14/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0370	1	EPA 7471B	01/15/2021 00:33	01/15/2021 00:33	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.2**		%	0.100	1	SM 2540G	01/15/2021 08:41	01/15/2021 12:50	SK
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BA10660 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21A0563-01	CM-EP-08 B(1ft)	01/15/21
21A0563-02	CMSW-02	01/15/21
21A0563-03	CMSW-01	01/15/21
BA10660-BLK1	Blank	01/15/21
BA10660-DUP1	Duplicate	01/15/21
BA10660-MS1	Matrix Spike	01/15/21
BA10660-SRM1	Reference	01/15/21

Batch ID: BA10669 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
21A0563-01	CM-EP-08 B(1ft)	01/15/21
21A0563-02	CMSW-02	01/15/21
21A0563-03	CMSW-01	01/15/21
BA10669-DUP1	Duplicate	01/15/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA10660 - EPA SW846-7471B											
Blank (BA10660-BLK1)								Prepared & Analyzed: 01/15/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BA10660-DUP1)	*Source sample: 21A0563-02 (CMSW-02)							Prepared & Analyzed: 01/15/2021			
Mercury	ND	0.0346	mg/kg dry		ND					35	
Matrix Spike (BA10660-MS1)	*Source sample: 21A0563-02 (CMSW-02)							Prepared & Analyzed: 01/15/2021			
Mercury	0.366	0.0346	mg/kg dry	0.350	ND	105	75-125				
Reference (BA10660-SRM1)								Prepared & Analyzed: 01/15/2021			
Mercury	4.03	0.330	mg/kg wet	4.85		83.0	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA10669 - % Solids Prep											
Duplicate (BA10669-DUP1)	*Source sample: 21A0563-03 (CMSW-01)								Prepared & Analyzed: 01/15/2021		
% Solids	89.1	0.100	%		89.2				0.0563	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21A0563

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred Environtel	Company:	Company:
Address: 323 Merrick Ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BComey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: AArc-19-018

YOUR Project Name: LIPA Group D Substations Cedar Manor

YOUR PO#:

Turn-Around Time
- ~~RUSH - Next Day~~ X
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Comey

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | ~~NYSDEC EQuIS~~
NY ASP B Package | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-08 BC(1)	S	1-14-21 1321	Total Mercury via 7471 A	(1) 4oz
DC 1-14-21 ~~CMSW-03~~ CMSW-02	↓	1318	" " " "	↓
CMSW-01	↓	13:25	" " " "	↓

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Preferred	1-14-21	York	1/14/21 14:57 5.0°	Ed	1/14/21 KB 1/14/21 ~~16:05~~ 1830
Ed	1/14/21				

Samples Received by / Company	Date/Time
Samples Received in LAB by KBlocker	Date/Time 1/14/21 1830

Temp. Received at Lab: 1.2 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 01/29/2021
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21A1152

Report Date: 01/29/2021
Client Project ID: AARC-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21A1152

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 28, 2021 and listed below. The project was identified as your project: **AARC-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21A1152-01	CM-EP-09-B(6ft)	Soil	01/28/2021	01/28/2021
21A1152-02	CM-EP-09-B(6ft) Dup	Soil	01/28/2021	01/28/2021

General Notes for York Project (SDG) No.: 21A1152

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/29/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: CM-EP-09-B(6ft) **York Sample ID:** 21A1152-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A1152	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 28, 2021 10:24 am	01/28/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0338	1	EPA 7471B	01/28/2021 19:11	01/28/2021 19:11	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**97.7**		%	0.100	1	SM 2540G	01/29/2021 08:41	01/29/2021 15:05	SK
							Certifications: CTDOH			

Sample Information

Client Sample ID: CM-EP-09-B(6ft) Dup **York Sample ID:** 21A1152-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21A1152	AARC-19-018 LIRR Group D Substations Cedar Manor	Soil	January 28, 2021 10:24 am	01/28/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0342	1	EPA 7471B	01/28/2021 19:11	01/28/2021 19:11	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.4**		%	0.100	1	SM 2540G	01/29/2021 08:41	01/29/2021 15:05	SK
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BA11359 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21A1152-01	CM-EP-09-B(6ft)	01/28/21
21A1152-02	CM-EP-09-B(6ft) Dup	01/28/21
BA11359-BLK1	Blank	01/28/21
BA11359-DUP1	Duplicate	01/28/21
BA11359-MS1	Matrix Spike	01/28/21
BA11359-SRM1	Reference	01/28/21

Batch ID: BA11378 **Preparation Method:** % Solids Prep **Prepared By:** SK

YORK Sample ID	Client Sample ID	Preparation Date
21A1152-01	CM-EP-09-B(6ft)	01/29/21
21A1152-02	CM-EP-09-B(6ft) Dup	01/29/21
BA11378-DUP1	Duplicate	01/29/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA11359 - EPA SW846-7471B											
Blank (BA11359-BLK1)								Prepared & Analyzed: 01/28/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BA11359-DUP1)	*Source sample: 21A1152-01 (CM-EP-09-B(6ft))							Prepared & Analyzed: 01/28/2021			
Mercury	ND	0.0338	mg/kg dry		ND					35	
Matrix Spike (BA11359-MS1)	*Source sample: 21A1152-01 (CM-EP-09-B(6ft))							Prepared & Analyzed: 01/28/2021			
Mercury	0.339	0.0338	mg/kg dry	0.341	ND	99.5	75-125				
Reference (BA11359-SRM1)								Prepared & Analyzed: 01/28/2021			
Mercury	3.89	0.330	mg/kg wet	4.85		80.2	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA11378 - % Solids Prep											
Duplicate (BA11378-DUP1)	*Source sample: 21A1152-01 (CM-EP-09-B(6ft))								Prepared & Analyzed: 01/29/2021		
% Solids	98.6	0.100	%		97.7				0.887	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21A1152

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV	Company:	Company:
Address: 323 Merrick ave. Merrick NY 11566	Address: Same.	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill schlageter@Preferredenv.com	Contact:	Contact:
E-mail: BConey@Preferredenv.com	E-mail:	E-mail:

YOUR Project Number: AMRC-19-018

YOUR Project Name: LIRR group D substations Cedar Manor.

Turn-Around Time

RUSH - Next Day	X
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	

YOUR PO#:

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Coney

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-09-B(6')	S	1-28-21 10:24	Total Mercury SW-846 Method 7471A	(1) 4oz
CM-EP-09-B(6') MS	S	10:24	↓	↓
CM-EP-09-B(6') MSD	S	10:24		
CM-EP-09-B(6') Dup	S	10:24		

Comments:

Preservation: (check all that apply) HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Coney Preferred	1-28-21 14:17	K. Harden / York	1/28/21 14:17 hrs 11.1°C on ice	K. Harden / York.	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Ed/Ltr	1/28/21 1500	Ed/Ltr.	1/28/21 1910		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				J Gale	1/28/2021 1910 / 2.0 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 03/03/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0101

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/03/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0101

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 02, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C0101-01	CM-EP-05-B(1)	Soil	03/02/2021	03/02/2021

General Notes for York Project (SDG) No.: 21C0101

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/03/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-05-B(1)** **York Sample ID:** **21C0101-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0101	AArc-19-018 LIRR group D Substations Cedar Manor	Soil	March 2, 2021 1:10 pm	03/02/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0344	1	EPA 7471B	03/02/2021 21:10	03/02/2021 21:10	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.9**		%	0.100	1	SM 2540G	03/03/2021 09:58	03/03/2021 13:30	OT
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC10151 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C0101-01	CM-EP-05-B(1)	03/02/21
BC10151-BLK1	Blank	03/02/21
BC10151-DUP1	Duplicate	03/02/21
BC10151-MS1	Matrix Spike	03/02/21
BC10151-SRM1	Reference	03/02/21

Batch ID: BC10178 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21C0101-01	CM-EP-05-B(1)	03/03/21
BC10178-DUP1	Duplicate	03/03/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10151 - EPA SW846-7471B											
Blank (BC10151-BLK1)								Prepared & Analyzed: 03/02/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BC10151-DUP1)	*Source sample: 21C0101-01 (CM-EP-05-B(1))							Prepared & Analyzed: 03/02/2021			
Mercury	ND	0.0344	mg/kg dry		ND					35	
Matrix Spike (BC10151-MS1)	*Source sample: 21C0101-01 (CM-EP-05-B(1))							Prepared & Analyzed: 03/02/2021			
Mercury	0.331	0.0344	mg/kg dry	0.348	ND	95.3	75-125				
Reference (BC10151-SRM1)								Prepared & Analyzed: 03/02/2021			
Mercury	4.44	0.330	mg/kg wet	4.85		91.6	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10178 - % Solids Prep											
Duplicate (BC10178-DUP1)	*Source sample: 21C0044-01 (Duplicate)							Prepared & Analyzed: 03/03/2021			
% Solids	86.5	0.100	%		85.9				0.608	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0101

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Preferred Environmental	Company:	Company:	AArc-19-018	RUSH - Next Day X
Address: 323 Merrick Ave N Merrick NY 11566	Address: Same	Address: Same	YOUR Project Name: LIRR group D Substations Cedar Manor	RUSH - Two Day
Phone.: 516-546-1100	Phone.:	Phone.:		RUSH - Three Day
Contact: Bryn Comey	Contact:	Contact:		RUSH - Four Day
E-mail: BComey@Preferredenv.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryn Comey

Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
NY ASP B Package; NJDKQP; NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-05-BG)	S	3-2-21 1310	Total Mercury Via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Preferred	3.2.21 1450	IMI / York	3/2/21 .1°C 14:55	/ York	
Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	3/2/21 1500		3/2/21 1955		
Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Mahler	3/2/21 1955 / 1.2 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 03/10/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21C0390

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/10/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21C0390

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 08, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C0390-01	CM-DW-EP-01 B(14)	Soil	03/08/2021	03/08/2021
21C0390-02	CM-EP-07 B(10)	Soil	03/08/2021	03/08/2021

General Notes for York Project (SDG) No.: 21C0390

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/10/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	MD
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP	MD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
123-91-1	1,4-Dioxane	ND		ug/kg dry	62	120	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
78-93-3	**2-Butanone**	**7.4**	J, B	ug/kg dry	3.1	12	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
67-64-1	Acetone	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
107-02-8	Acrolein	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
74-83-9	**Bromomethane**	**4.8**	J	ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-09-2	Methylene chloride	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	MD
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	MD
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-65-0	**tert-Butyl alcohol (TBA)**	**14**		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH	MD
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	MD
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C Certifications:	03/09/2021 06:47	03/09/2021 14:51 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	MD

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.9 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,PADEP	03/10/2021 12:09	CD
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,PADEP	03/10/2021 12:09	CD
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,PADEP	03/10/2021 12:09	CD
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41 NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
88-74-4	2-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 NELAC-NY10854,NJDEP,PADEP	CD
99-09-2	3-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
100-01-6	4-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
100-02-7	4-Nitrophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
83-32-9	Acenaphthene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
208-96-8	Acenaphthylene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
98-86-2	Acetophenone	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 NELAC-NY10854,NJDEP,PADEP	CD
62-53-3	Aniline	ND		ug/kg dry	172	344	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 NELAC-NY10854,NJDEP,PADEP	CD
120-12-7	Anthracene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
1912-24-9	Atrazine	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 NELAC-NY10854,NJDEP,PADEP	CD
100-52-7	Benzaldehyde	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 NELAC-NY10854,NJDEP,PADEP	CD
92-87-5	Benzidine	ND		ug/kg dry	172	344	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,PADEP	CD
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09 CTDOH,NELAC-NY10854,NJDEP,PADEP	CD

Sample Information

Client Sample ID: CM-DW-EP-01 B(14)

York Sample ID: 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
65-85-0	Benzoic acid	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD NELAC-NY10854,NJDEP,PADEP
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD NELAC-NY10854,NJDEP,PADEP
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
105-60-2	Caprolactam	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD NELAC-NY10854,NJDEP,PADEP
86-74-8	Carbazole	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
218-01-9	Chrysene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
132-64-9	Dibenzofuran	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
131-11-3	Dimethyl phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
122-39-4	* Diphenylamine	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD
206-44-0	Fluoranthene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP
86-73-7	Fluorene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD NELAC-NY10854,NJDEP,PADEP
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41	03/10/2021 12:09	CD CTDOH,NELAC-NY10854,NJDEP,PADEP

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
67-72-1	Hexachloroethane	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
78-59-1	Isophorone	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
91-20-3	Naphthalene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
98-95-3	Nitrobenzene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
85-01-8	Phenanthrene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
108-95-2	Phenol	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD
129-00-0	Pyrene	ND		ug/kg dry	43.0	85.9	2	EPA 8270D Certifications:	03/10/2021 06:41 CTDOH,NELAC-NY10854,NJDEP,PADEP	03/10/2021 12:09	CD

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*67.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*81.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*107 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*93.2 %*	*24-116*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	03/09/2021 13:42 NELAC-NY10854,CTDOH,NJDEP,PADEP	03/10/2021 14:03	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	03/09/2021 13:42 NELAC-NY10854,CTDOH,NJDEP,PADEP	03/10/2021 14:03	BJ

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/09/2021 13:42	03/10/2021 14:03	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/09/2021 13:42	03/10/2021 14:03	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/09/2021 13:42	03/10/2021 14:03	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/09/2021 13:42	03/10/2021 14:03	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	03/09/2021 13:42	03/10/2021 14:03	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	03/09/2021 13:42	03/10/2021 14:03	BJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-140*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	ND		mg/kg dry	9.78	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:26	03/10/2021 12:27	SGM

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*74.8 %*	*30-150*

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	**88.6**		mg/kg dry	82.9	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	03/10/2021 08:00	03/10/2021 10:52	LM

	Surrogate Recoveries	Result		Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*132 %*	S-08	*70-130*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2480**		mg/kg dry	5.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-36-0	Antimony	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-39-3	**Barium**	**20.7**		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-43-9	Cadmium	ND		mg/kg dry	0.311	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-70-2	**Calcium**	**555**	B	mg/kg dry	5.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-47-3	**Chromium**	**8.12**		mg/kg dry	0.518	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-48-4	**Cobalt**	**3.18**		mg/kg dry	0.415	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-50-8	**Copper**	**5.82**		mg/kg dry	2.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7439-89-6	**Iron**	**12100**		mg/kg dry	25.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7439-92-1	**Lead**	**1.63**		mg/kg dry	0.518	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7439-95-4	**Magnesium**	**979**		mg/kg dry	5.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7439-96-5	**Manganese**	**217**		mg/kg dry	0.518	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-02-0	**Nickel**	**7.18**		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-09-7	**Potassium**	**400**		mg/kg dry	5.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7782-49-2	Selenium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-22-4	Silver	ND		mg/kg dry	0.518	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-23-5	Sodium	ND		mg/kg dry	51.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-28-0	Thallium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-62-2	**Vanadium**	**11.7**		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM
7440-66-6	**Zinc**	**12.8**		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	03/09/2021 15:32	03/10/2021 15:02	WJM

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: CM-DW-EP-01 B(14) **York Sample ID:** 21C0390-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:50 pm	03/08/2021

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0342	1	EPA 7471B	03/08/2021 20:05	03/08/2021 20:05	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.5**		%	0.100	1	SM 2540G	03/09/2021 08:56	03/09/2021 15:49	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: CM-EP-07 B(10) **York Sample ID:** 21C0390-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0390	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 8, 2021 1:55 pm	03/08/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0342	1	EPA 7471B	03/08/2021 20:05	03/08/2021 20:05	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.6**		%	0.100	1	SM 2540G	03/09/2021 08:56	03/09/2021 15:49	JAG
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC10473 **Preparation Method:** EPA 5035A **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/09/21
BC10473-BLK1	Blank	03/09/21
BC10473-BS1	LCS	03/09/21
BC10473-BSD1	LCS Dup	03/09/21

Batch ID: BC10483 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/08/21
21C0390-02	CM-EP-07 B(10)	03/08/21
BC10483-BLK1	Blank	03/08/21
BC10483-DUP1	Duplicate	03/08/21
BC10483-MS1	Matrix Spike	03/08/21
BC10483-SRM1	Reference	03/08/21

Batch ID: BC10504 **Preparation Method:** % Solids Prep **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/09/21
21C0390-02	CM-EP-07 B(10)	03/09/21
BC10504-DUP1	Duplicate	03/09/21

Batch ID: BC10523 **Preparation Method:** EPA 3550C **Prepared By:** MAM

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/09/21
BC10523-BLK2	Blank	03/09/21
BC10523-BS2	LCS	03/09/21

Batch ID: BC10545 **Preparation Method:** EPA 3550C **Prepared By:** EM

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/09/21
BC10545-BLK1	Blank	03/09/21
BC10545-BS1	LCS	03/09/21

Batch ID: BC10548 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/09/21
BC10548-BLK1	Blank	03/09/21
BC10548-SRM1	Reference	03/09/21

Batch ID: BC10572 **Preparation Method:** EPA 3546 SVOA **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/10/21
BC10572-BLK1	Blank	03/10/21
BC10572-BS1	LCS	03/10/21
BC10572-MS1	Matrix Spike	03/10/21
BC10572-MSD1	Matrix Spike Dup	03/10/21

Batch ID: BC10575 **Preparation Method:** EPA 5035A **Prepared By:** NT

YORK Sample ID	Client Sample ID	Preparation Date
21C0390-01	CM-DW-EP-01 B(14)	03/10/21
BC10575-BLK1	Blank	03/10/21
BC10575-DUP1	Duplicate	03/10/21
BC10575-MS1	Matrix Spike	03/10/21
BC10575-SRM1	Reference	03/10/21

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10473 - EPA 5035A											
Blank (BC10473-BLK1)											Prepared & Analyzed: 03/09/2021
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	6.0	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10473 - EPA 5035A											
Blank (BC10473-BLK1)									Prepared & Analyzed: 03/09/2021		
Methylene chloride	ND	10	ug/kg wet								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.4*		*ug/L*	*50.0*		*98.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*54.2*		*"*	*50.0*		*108*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*54.7*		*"*	*50.0*		*109*	*76-130*				
LCS (BC10473-BS1)									Prepared & Analyzed: 03/09/2021		
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	75-129				
1,1,1-Trichloroethane	51		"	50.0		103	71-137				
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		117	58-146				
1,1,2-Trichloroethane	54		"	50.0		107	83-123				
1,1-Dichloroethane	45		"	50.0		89.6	75-130				
1,1-Dichloroethylene	48		"	50.0		95.9	64-137				
1,2,3-Trichlorobenzene	52		"	50.0		105	81-140				
1,2,3-Trichloropropane	57		"	50.0		114	81-126				
1,2,4-Trichlorobenzene	52		"	50.0		104	80-141				
1,2,4-Trimethylbenzene	56		"	50.0		112	84-125				
1,2-Dibromo-3-chloropropane	56		"	50.0		111	74-142				
1,2-Dibromoethane	55		"	50.0		110	86-123				
1,2-Dichlorobenzene	54		"	50.0		108	85-122				
1,2-Dichloroethane	45		"	50.0		89.5	71-133				
1,2-Dichloropropane	49		"	50.0		98.9	81-122				
1,3,5-Trimethylbenzene	57		"	50.0		114	82-126				
1,3-Dichlorobenzene	53		"	50.0		106	84-124				
1,4-Dichlorobenzene	51		"	50.0		103	84-124				
1,4-Dioxane	1400		"	1050		130	10-228				
2-Butanone	47		"	50.0		93.9	58-147				
2-Hexanone	48		"	50.0		95.4	70-139				
4-Methyl-2-pentanone	46		"	50.0		92.0	72-132				
Acetone	36		"	50.0		71.1	36-155				
Acrolein	53		"	50.0		105	10-238				
Acrylonitrile	46		"	50.0		92.9	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10473 - EPA 5035A											
LCS (BC10473-BS1)								Prepared & Analyzed: 03/09/2021			
Benzene	52		ug/L	50.0		103	77-127				
Bromochloromethane	44		"	50.0		87.3	74-129				
Bromodichloromethane	52		"	50.0		104	81-124				
Bromoform	50		"	50.0		101	80-136				
Bromomethane	55		"	50.0		109	32-177				
Carbon disulfide	53		"	50.0		106	10-136				
Carbon tetrachloride	52		"	50.0		105	66-143				
Chlorobenzene	53		"	50.0		107	86-120				
Chloroethane	50		"	50.0		99.6	51-142				
Chloroform	48		"	50.0		95.6	76-131				
Chloromethane	53		"	50.0		107	49-132				
cis-1,2-Dichloroethylene	46		"	50.0		92.4	74-132				
cis-1,3-Dichloropropylene	52		"	50.0		105	81-129				
Cyclohexane	47		"	50.0		94.9	70-130				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	52		"	50.0		104	83-124				
Dichlorodifluoromethane	56		"	50.0		112	28-158				
Ethyl Benzene	54		"	50.0		108	84-125				
Hexachlorobutadiene	54		"	50.0		107	83-133				
Isopropylbenzene	57		"	50.0		113	81-127				
Methyl acetate	43		"	50.0		85.2	41-143				
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.3	74-131				
Methylcyclohexane	57		"	50.0		113	70-130				
Methylene chloride	44		"	50.0		88.9	57-141				
n-Butylbenzene	52		"	50.0		103	80-130				
n-Propylbenzene	54		"	50.0		109	74-136				
o-Xylene	52		"	50.0		104	83-123				
p- & m- Xylenes	110		"	100		108	82-128				
p-Isopropyltoluene	58		"	50.0		116	85-125				
sec-Butylbenzene	60		"	50.0		120	83-125				
Styrene	55		"	50.0		110	86-126				
tert-Butyl alcohol (TBA)	280		"	250		111	70-130				
tert-Butylbenzene	51		"	50.0		102	80-127				
Tetrachloroethylene	48		"	50.0		96.2	80-129				
Toluene	52		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	49		"	50.0		98.6	72-132				
trans-1,3-Dichloropropylene	52		"	50.0		105	78-132				
trans-1,4-dichloro-2-butene	58		"	50.0		115	75-135				
Trichloroethylene	57		"	50.0		114	84-123				
Trichlorofluoromethane	53		"	50.0		106	62-140				
Vinyl Chloride	58		"	50.0		116	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*45.8*		*"*	*50.0*		*91.7*	*77-125*				
Surrogate: SURR: Toluene-d8	*54.4*		*"*	*50.0*		*109*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.1*		*"*	*50.0*		*98.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10473 - EPA 5035A											
LCS Dup (BC10473-BSD1)								Prepared & Analyzed: 03/09/2021			
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		105	75-129		0.380	30	
1,1,1-Trichloroethane	50		"	50.0		100	71-137		2.30	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	79-129		1.07	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		113	58-146		3.15	30	
1,1,2-Trichloroethane	53		"	50.0		107	83-123		0.468	30	
1,1-Dichloroethane	44		"	50.0		88.6	75-130		1.17	30	
1,1-Dichloroethylene	47		"	50.0		93.1	64-137		2.90	30	
1,2,3-Trichlorobenzene	54		"	50.0		107	81-140		2.62	30	
1,2,3-Trichloropropane	55		"	50.0		109	81-126		3.73	30	
1,2,4-Trichlorobenzene	54		"	50.0		108	80-141		4.26	30	
1,2,4-Trimethylbenzene	55		"	50.0		109	84-125		2.24	30	
1,2-Dibromo-3-chloropropane	53		"	50.0		105	74-142		5.70	30	
1,2-Dibromoethane	54		"	50.0		108	86-123		1.10	30	
1,2-Dichlorobenzene	54		"	50.0		108	85-122		0.186	30	
1,2-Dichloroethane	44		"	50.0		88.9	71-133		0.628	30	
1,2-Dichloropropane	48		"	50.0		96.1	81-122		2.83	30	
1,3,5-Trimethylbenzene	55		"	50.0		110	82-126		3.00	30	
1,3-Dichlorobenzene	53		"	50.0		106	84-124		0.151	30	
1,4-Dichlorobenzene	52		"	50.0		104	84-124		1.43	30	
1,4-Dioxane	1200		"	1050		119	10-228		9.57	30	
2-Butanone	46		"	50.0		92.6	58-147		1.35	30	
2-Hexanone	46		"	50.0		91.5	70-139		4.19	30	
4-Methyl-2-pentanone	44		"	50.0		88.3	72-132		4.11	30	
Acetone	33		"	50.0		66.9	36-155		6.06	30	
Acrolein	49		"	50.0		98.1	10-238		7.02	30	
Acrylonitrile	45		"	50.0		89.3	66-141		3.97	30	
Benzene	51		"	50.0		102	77-127		1.17	30	
Bromochloromethane	43		"	50.0		86.1	74-129		1.38	30	
Bromodichloromethane	51		"	50.0		102	81-124		2.35	30	
Bromoform	51		"	50.0		103	80-136		1.96	30	
Bromomethane	53		"	50.0		105	32-177		3.69	30	
Carbon disulfide	52		"	50.0		104	10-136		1.70	30	
Carbon tetrachloride	51		"	50.0		103	66-143		1.95	30	
Chlorobenzene	53		"	50.0		106	86-120		0.962	30	
Chloroethane	51		"	50.0		103	51-142		3.16	30	
Chloroform	48		"	50.0		95.8	76-131		0.209	30	
Chloromethane	51		"	50.0		102	49-132		4.39	30	
cis-1,2-Dichloroethylene	45		"	50.0		90.8	74-132		1.70	30	
cis-1,3-Dichloropropylene	51		"	50.0		103	81-129		1.72	30	
Cyclohexane	45		"	50.0		90.1	70-130		5.10	30	
Dibromochloromethane	55		"	50.0		109	10-200		0.328	30	
Dibromomethane	52		"	50.0		103	83-124		0.908	30	
Dichlorodifluoromethane	53		"	50.0		107	28-158		4.62	30	
Ethyl Benzene	52		"	50.0		104	84-125		3.03	30	
Hexachlorobutadiene	53		"	50.0		106	83-133		1.18	30	
Isopropylbenzene	54		"	50.0		109	81-127		4.00	30	
Methyl acetate	41		"	50.0		82.7	41-143		2.93	30	
Methyl tert-butyl ether (MTBE)	49		"	50.0		97.5	74-131		3.36	30	
Methylcyclohexane	53		"	50.0		106	70-130		6.33	30	
Methylene chloride	44		"	50.0		87.2	57-141		1.91	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10473 - EPA 5035A											
LCS Dup (BC10473-BSD1)								Prepared & Analyzed: 03/09/2021			
n-Butylbenzene	50		ug/L	50.0		99.9	80-130		3.05	30	
n-Propylbenzene	52		"	50.0		104	74-136		4.56	30	
o-Xylene	51		"	50.0		102	83-123		2.25	30	
p- & m- Xylenes	110		"	100		105	82-128		2.58	30	
p-Isopropyltoluene	56		"	50.0		112	85-125		3.45	30	
sec-Butylbenzene	58		"	50.0		115	83-125		4.37	30	
Styrene	54		"	50.0		109	86-126		0.786	30	
tert-Butyl alcohol (TBA)	270		"	250		108	70-130		2.45	30	
tert-Butylbenzene	49		"	50.0		98.1	80-127		4.09	30	
Tetrachloroethylene	47		"	50.0		94.7	80-129		1.53	30	
Toluene	51		"	50.0		102	85-121		2.87	30	
trans-1,2-Dichloroethylene	48		"	50.0		97.0	72-132		1.64	30	
trans-1,3-Dichloropropylene	52		"	50.0		104	78-132		0.826	30	
trans-1,4-dichloro-2-butene	55		"	50.0		111	75-135		3.72	30	
Trichloroethylene	54		"	50.0		109	84-123		4.89	30	
Trichlorofluoromethane	51		"	50.0		103	62-140		2.95	30	
Vinyl Chloride	55		"	50.0		111	52-130		5.04	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*46.3*		*"*	*50.0*		*92.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.4*		*"*	*50.0*		*107*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BC10572 - EPA 3546 SVOA

Blank (BC10572-BLK1) Prepared & Analyzed: 03/10/2021

1,1-Biphenyl	ND	41.7	ug/kg wet
1,2,4,5-Tetrachlorobenzene	ND	83.3	"
1,2,4-Trichlorobenzene	ND	41.7	"
1,2-Dichlorobenzene	ND	41.7	"
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.7	"
1,3-Dichlorobenzene	ND	41.7	"
1,4-Dichlorobenzene	ND	41.7	"
2,3,4,6-Tetrachlorophenol	ND	83.3	"
2,4,5-Trichlorophenol	ND	41.7	"
2,4,6-Trichlorophenol	ND	41.7	"
2,4-Dichlorophenol	ND	41.7	"
2,4-Dimethylphenol	ND	41.7	"
2,4-Dinitrophenol	ND	83.3	"
2,4-Dinitrotoluene	ND	41.7	"
2,6-Dinitrotoluene	ND	41.7	"
2-Chloronaphthalene	ND	41.7	"
2-Chlorophenol	ND	41.7	"
2-Methylnaphthalene	ND	41.7	"
2-Methylphenol	ND	41.7	"
2-Nitroaniline	ND	83.3	"
2-Nitrophenol	ND	41.7	"
3- & 4-Methylphenols	ND	41.7	"
3,3-Dichlorobenzidine	ND	41.7	"
3-Nitroaniline	ND	83.3	"
4,6-Dinitro-2-methylphenol	ND	83.3	"
4-Bromophenyl phenyl ether	ND	41.7	"
4-Chloro-3-methylphenol	ND	41.7	"
4-Chloroaniline	ND	41.7	"
4-Chlorophenyl phenyl ether	ND	41.7	"
4-Nitroaniline	ND	83.3	"
4-Nitrophenol	ND	83.3	"
Acenaphthene	ND	41.7	"
Acenaphthylene	ND	41.7	"
Acetophenone	ND	41.7	"
Aniline	ND	167	"
Anthracene	ND	41.7	"
Atrazine	ND	41.7	"
Benzaldehyde	ND	41.7	"
Benzidine	ND	167	"
Benzo(a)anthracene	ND	41.7	"
Benzo(a)pyrene	ND	41.7	"
Benzo(b)fluoranthene	ND	41.7	"
Benzo(g,h,i)perylene	ND	41.7	"
Benzo(k)fluoranthene	ND	41.7	"
Benzoic acid	ND	41.7	"
Benzyl alcohol	ND	41.7	"
Benzyl butyl phthalate	ND	41.7	"
Bis(2-chloroethoxy)methane	ND	41.7	"
Bis(2-chloroethyl)ether	ND	41.7	"
Bis(2-chloroisopropyl)ether	ND	41.7	"
Bis(2-ethylhexyl)phthalate	22.0	41.7	"

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10572 - EPA 3546 SVOA											
Blank (BC10572-BLK1)											
Prepared & Analyzed: 03/10/2021											
Caprolactam	ND	83.3	ug/kg wet								
Carbazole	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Diethyl phthalate	ND	41.7	"								
Dimethyl phthalate	ND	41.7	"								
Di-n-butyl phthalate	21.0	41.7	"								
Di-n-octyl phthalate	ND	41.7	"								
Diphenylamine	ND	83.3	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Hexachlorobutadiene	ND	41.7	"								
Hexachlorocyclopentadiene	ND	41.7	"								
Hexachloroethane	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Isophorone	ND	41.7	"								
Naphthalene	ND	41.7	"								
Nitrobenzene	ND	41.7	"								
N-Nitrosodimethylamine	ND	41.7	"								
N-nitroso-di-n-propylamine	ND	41.7	"								
N-Nitrosodiphenylamine	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: SURR: 2-Fluorophenol	*1260*		"	*1670*		*75.7*	*20-108*				
Surrogate: SURR: Phenol-d5	*1260*		"	*1670*		*75.3*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*741*		"	*833*		*89.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*712*		"	*833*		*85.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1330*		"	*1670*		*79.8*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*968*		"	*833*		*116*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10572 - EPA 3546 SVOA											
LCS (BC10572-BS1)								Prepared & Analyzed: 03/10/2021			
1,1-Biphenyl	693	41.7	ug/kg wet	833		83.2	18-111				
1,2,4,5-Tetrachlorobenzene	698	83.3	"	833		83.8	21-131				
1,2,4-Trichlorobenzene	655	41.7	"	833		78.6	10-140				
1,2-Dichlorobenzene	568	41.7	"	833		68.2	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	820	41.7	"	833		98.4	17-137				
1,3-Dichlorobenzene	544	41.7	"	833		65.3	33-110				
1,4-Dichlorobenzene	555	41.7	"	833		66.6	32-104				
2,3,4,6-Tetrachlorophenol	820	83.3	"	833		98.4	30-130				
2,4,5-Trichlorophenol	695	41.7	"	833		83.4	27-118				
2,4,6-Trichlorophenol	698	41.7	"	833		83.8	31-120				
2,4-Dichlorophenol	743	41.7	"	833		89.1	20-127				
2,4-Dimethylphenol	709	41.7	"	833		85.0	14-132				
2,4-Dinitrophenol	78.0	83.3	"	833		9.36	10-171	Low Bias			
2,4-Dinitrotoluene	785	41.7	"	833		94.2	34-131				
2,6-Dinitrotoluene	774	41.7	"	833		92.9	31-128				
2-Chloronaphthalene	663	41.7	"	833		79.6	31-117				
2-Chlorophenol	618	41.7	"	833		74.2	33-113				
2-Methylnaphthalene	729	41.7	"	833		87.5	12-138				
2-Methylphenol	610	41.7	"	833		73.2	10-136				
2-Nitroaniline	727	83.3	"	833		87.2	27-132				
2-Nitrophenol	685	41.7	"	833		82.2	17-129				
3- & 4-Methylphenols	586	41.7	"	833		70.4	29-103				
3,3-Dichlorobenzidine	302	41.7	"	833		36.3	22-149				
3-Nitroaniline	472	83.3	"	833		56.7	20-133				
4,6-Dinitro-2-methylphenol	354	83.3	"	833		42.4	10-143				
4-Bromophenyl phenyl ether	852	41.7	"	833		102	29-120				
4-Chloro-3-methylphenol	776	41.7	"	833		93.2	24-129				
4-Chloroaniline	231	41.7	"	833		27.7	10-132				
4-Chlorophenyl phenyl ether	699	41.7	"	833		83.8	27-124				
4-Nitroaniline	719	83.3	"	833		86.2	16-128				
4-Nitrophenol	826	83.3	"	833		99.1	10-141				
Acenaphthene	693	41.7	"	833		83.1	30-121				
Acenaphthylene	695	41.7	"	833		83.4	30-115				
Acetophenone	611	41.7	"	833		73.3	20-112				
Aniline	206	167	"	833		24.7	10-119				
Anthracene	777	41.7	"	833		93.2	34-118				
Atrazine	927	41.7	"	833		111	26-112				
Benzaldehyde	611	41.7	"	833		73.3	21-100				
Benzo(a)anthracene	825	41.7	"	833		99.0	32-122				
Benzo(a)pyrene	697	41.7	"	833		83.7	29-133				
Benzo(b)fluoranthene	762	41.7	"	833		91.4	25-133				
Benzo(g,h,i)perylene	914	41.7	"	833		110	10-143				
Benzo(k)fluoranthene	713	41.7	"	833		85.6	25-128				
Benzoic acid	108	41.7	"	833		13.0	10-140				
Benzyl alcohol	734	41.7	"	833		88.1	30-115				
Benzyl butyl phthalate	867	41.7	"	833		104	26-126				
Bis(2-chloroethoxy)methane	641	41.7	"	833		77.0	19-132				
Bis(2-chloroethyl)ether	543	41.7	"	833		65.2	19-125				
Bis(2-chloroisopropyl)ether	712	41.7	"	833		85.4	20-135				
Bis(2-ethylhexyl)phthalate	880	41.7	"	833		106	10-155				
Caprolactam	719	83.3	"	833		86.3	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10572 - EPA 3546 SVOA											
LCS (BC10572-BS1)							Prepared & Analyzed: 03/10/2021				
Carbazole	810	41.7	ug/kg wet	833		97.2	35-123				
Chrysene	812	41.7	"	833		97.5	32-123				
Dibenzo(a,h)anthracene	835	41.7	"	833		100	10-136				
Dibenzofuran	669	41.7	"	833		80.3	29-121				
Diethyl phthalate	733	41.7	"	833		87.9	34-116				
Dimethyl phthalate	679	41.7	"	833		81.5	35-124				
Di-n-butyl phthalate	831	41.7	"	833		99.7	31-116				
Di-n-octyl phthalate	882	41.7	"	833		106	26-136				
Diphenylamine	946	83.3	"	833		113	40-140				
Fluoranthene	814	41.7	"	833		97.7	33-122				
Fluorene	683	41.7	"	833		82.0	29-123				
Hexachlorobenzene	813	41.7	"	833		97.6	21-124				
Hexachlorobutadiene	692	41.7	"	833		83.0	10-149				
Hexachlorocyclopentadiene	523	41.7	"	833		62.8	10-129				
Hexachloroethane	587	41.7	"	833		70.4	28-108				
Indeno(1,2,3-cd)pyrene	861	41.7	"	833		103	10-135				
Isophorone	728	41.7	"	833		87.3	20-132				
Naphthalene	636	41.7	"	833		76.4	23-124				
Nitrobenzene	666	41.7	"	833		80.0	13-132				
N-Nitrosodimethylamine	580	41.7	"	833		69.6	11-129				
N-nitroso-di-n-propylamine	651	41.7	"	833		78.1	24-119				
N-Nitrosodiphenylamine	1020	41.7	"	833		122	22-152				
Pentachlorophenol	505	41.7	"	833		60.6	10-139				
Phenanthrene	758	41.7	"	833		91.0	33-123				
Phenol	605	41.7	"	833		72.6	23-115				
Pyrene	820	41.7	"	833		98.4	32-130				
Surrogate: SURR: 2-Fluorophenol	*1280*		*"*	*1670*		*76.6*	*20-108*				
Surrogate: SURR: Phenol-d5	*1320*		*"*	*1670*		*79.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*737*		*"*	*833*		*88.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*739*		*"*	*833*		*88.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2220*		*"*	*1670*		*133*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*1030*		*"*	*833*		*123*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BC10572 - EPA 3546 SVOA

Matrix Spike (BC10572-MS1) *Source sample: 21C0344-02 (Matrix Spike) Prepared & Analyzed: 03/10/2021

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	723	99.6	ug/kg dry	995		72.6	10-130				
1,2,4,5-Tetrachlorobenzene	740	199	"	995		74.4	10-133				
1,2,4-Trichlorobenzene	683	99.6	"	995		68.6	10-127				
1,2-Dichlorobenzene	572	99.6	"	995		57.4	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	774	99.6	"	995		77.8	10-144				
1,3-Dichlorobenzene	547	99.6	"	995		55.0	11-111				
1,4-Dichlorobenzene	568	99.6	"	995		57.1	10-106				
2,3,4,6-Tetrachlorophenol	877	199	"	995		88.1	30-130				
2,4,5-Trichlorophenol	750	99.6	"	995		75.4	10-127				
2,4,6-Trichlorophenol	736	99.6	"	995		73.9	10-132				
2,4-Dichlorophenol	798	99.6	"	995		80.2	10-128				
2,4-Dimethylphenol	760	99.6	"	995		76.3	10-137				
2,4-Dinitrophenol	632	199	"	995		63.5	10-171				
2,4-Dinitrotoluene	757	99.6	"	995		76.1	16-135				
2,6-Dinitrotoluene	783	99.6	"	995		78.7	18-131				
2-Chloronaphthalene	690	99.6	"	995		69.4	10-129				
2-Chlorophenol	636	99.6	"	995		63.9	15-116				
2-Methylnaphthalene	778	99.6	"	995		78.2	10-147				
2-Methylphenol	675	99.6	"	995		67.8	10-136				
2-Nitroaniline	776	199	"	995		77.9	10-137				
2-Nitrophenol	691	99.6	"	995		69.4	10-129				
3- & 4-Methylphenols	630	99.6	"	995		63.3	10-123				
3,3-Dichlorobenzidine	189	99.6	"	995		19.0	10-155				
3-Nitroaniline	549	199	"	995		55.1	12-133				
4,6-Dinitro-2-methylphenol	677	199	"	995		68.0	10-155				
4-Bromophenyl phenyl ether	805	99.6	"	995		80.9	14-128				
4-Chloro-3-methylphenol	837	99.6	"	995		84.1	10-134				
4-Chloroaniline	423	99.6	"	995		42.5	10-145				
4-Chlorophenyl phenyl ether	705	99.6	"	995		70.9	14-130				
4-Nitroaniline	568	199	"	995		57.0	10-147				
4-Nitrophenol	955	199	"	995		95.9	10-137				
Acenaphthene	712	99.6	"	995		71.5	10-146				
Acenaphthylene	743	99.6	"	995		74.6	10-134				
Acetophenone	688	99.6	"	995		69.1	10-116				
Aniline	539	399	"	995		54.2	10-123				
Anthracene	780	99.6	"	995		78.4	10-142				
Atrazine	877	99.6	"	995		88.1	19-115				
Benzaldehyde	688	99.6	"	995		69.1	10-125				
Benzo(a)anthracene	845	99.6	"	995		84.9	10-158				
Benzo(a)pyrene	794	99.6	"	995		79.8	10-180				
Benzo(b)fluoranthene	850	99.6	"	995		85.4	10-200				
Benzo(g,h,i)perylene	893	99.6	"	995		89.7	10-138				
Benzo(k)fluoranthene	811	99.6	"	995		81.5	10-197				
Benzoic acid	331	99.6	"	995		33.3	10-166				
Benzyl alcohol	783	99.6	"	995		78.7	12-124				
Benzyl butyl phthalate	794	99.6	"	995		79.8	10-154				
Bis(2-chloroethoxy)methane	666	99.6	"	995		66.9	10-132				
Bis(2-chloroethyl)ether	505	99.6	"	995		50.7	10-119				
Bis(2-chloroisopropyl)ether	760	99.6	"	995		76.3	10-139				
Bis(2-ethylhexyl)phthalate	865	99.6	"	995		86.9	10-167				
Caprolactam	764	199	"	995		76.8	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10572 - EPA 3546 SVOA											
Matrix Spike (BC10572-MS1)	*Source sample: 21C0344-02 (Matrix Spike)						Prepared & Analyzed: 03/10/2021				
Carbazole	780	99.6	ug/kg dry	995		78.4	10-167				
Chrysene	851	99.6	"	995		85.5	10-156				
Dibenzo(a,h)anthracene	793	99.6	"	995		79.7	10-137				
Dibenzofuran	729	99.6	"	995		73.2	10-147				
Diethyl phthalate	751	99.6	"	995		75.4	20-120				
Dimethyl phthalate	693	99.6	"	995		69.6	18-131				
Di-n-butyl phthalate	822	99.6	"	995		82.6	10-137				
Di-n-octyl phthalate	880	99.6	"	995		88.4	10-180				
Diphenylamine	916	199	"	995		92.1	40-140				
Fluoranthene	930	99.6	"	995		93.4	10-160				
Fluorene	736	99.6	"	995		74.0	10-157				
Hexachlorobenzene	820	99.6	"	995		82.4	10-137				
Hexachlorobutadiene	712	99.6	"	995		71.5	10-132				
Hexachlorocyclopentadiene	348	99.6	"	995		35.0	10-106				
Hexachloroethane	591	99.6	"	995		59.4	10-110				
Indeno(1,2,3-cd)pyrene	842	99.6	"	995		84.6	10-144				
Isophorone	745	99.6	"	995		74.9	10-132				
Naphthalene	655	99.6	"	995		65.8	10-141				
Nitrobenzene	681	99.6	"	995		68.4	10-131				
N-Nitrosodimethylamine	578	99.6	"	995		58.1	10-126				
N-nitroso-di-n-propylamine	672	99.6	"	995		67.5	10-125				
N-Nitrosodiphenylamine	999	99.6	"	995		100	10-177				
Pentachlorophenol	672	99.6	"	995		67.5	10-153				
Phenanthrene	793	99.6	"	995		79.7	10-148				
Phenol	686	99.6	"	995		68.9	10-126				
Pyrene	828	99.6	"	995		83.2	10-165				
Surrogate: SURR: 2-Fluorophenol	*1350*		"	*1990*		*67.8*	*20-108*				
Surrogate: SURR: Phenol-d5	*1390*		"	*1990*		*69.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*774*		"	*995*		*77.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*765*		"	*995*		*76.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2200*		"	*1990*		*110*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*941*		"	*995*		*94.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BC10572 - EPA 3546 SVOA

Matrix Spike Dup (BC10572-MSD1) *Source sample: 21C0344-02 (Matrix Spike Dup) Prepared & Analyzed: 03/10/2021

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	737	99.6	ug/kg dry	995		74.1	10-130		1.96	30	
1,2,4,5-Tetrachlorobenzene	759	199	"	995		76.2	10-133		2.44	30	
1,2,4-Trichlorobenzene	697	99.6	"	995		70.1	10-127		2.08	30	
1,2-Dichlorobenzene	590	99.6	"	995		59.3	14-111		3.15	30	
1,2-Diphenylhydrazine (as Azobenzene)	844	99.6	"	995		84.8	10-144		8.66	30	
1,3-Dichlorobenzene	574	99.6	"	995		57.7	11-111		4.83	30	
1,4-Dichlorobenzene	571	99.6	"	995		57.4	10-106		0.419	30	
2,3,4,6-Tetrachlorophenol	1030	199	"	995		104	30-130		16.1	30	
2,4,5-Trichlorophenol	794	99.6	"	995		79.8	10-127		5.67	30	
2,4,6-Trichlorophenol	787	99.6	"	995		79.1	10-132		6.80	30	
2,4-Dichlorophenol	831	99.6	"	995		83.5	10-128		4.11	30	
2,4-Dimethylphenol	785	99.6	"	995		78.9	10-137		3.30	30	
2,4-Dinitrophenol	647	199	"	995		65.0	10-171		2.24	30	
2,4-Dinitrotoluene	835	99.6	"	995		83.9	16-135		9.80	30	
2,6-Dinitrotoluene	801	99.6	"	995		80.5	18-131		2.21	30	
2-Chloronaphthalene	711	99.6	"	995		71.4	10-129		2.95	30	
2-Chlorophenol	673	99.6	"	995		67.6	15-116		5.60	30	
2-Methylnaphthalene	789	99.6	"	995		79.3	10-147		1.42	30	
2-Methylphenol	697	99.6	"	995		70.1	10-136		3.25	30	
2-Nitroaniline	801	199	"	995		80.5	10-137		3.23	30	
2-Nitrophenol	744	99.6	"	995		74.7	10-129		7.33	30	
3- & 4-Methylphenols	673	99.6	"	995		67.6	10-123		6.60	30	
3,3-Dichlorobenzidine	282	99.6	"	995		28.3	10-155		39.6	30	Non-dir.
3-Nitroaniline	616	199	"	995		61.9	12-133		11.6	30	
4,6-Dinitro-2-methylphenol	691	199	"	995		69.4	10-155		2.10	30	
4-Bromophenyl phenyl ether	892	99.6	"	995		89.6	14-128		10.2	30	
4-Chloro-3-methylphenol	874	99.6	"	995		87.8	10-134		4.37	30	
4-Chloroaniline	494	99.6	"	995		49.7	10-145		15.6	30	
4-Chlorophenyl phenyl ether	771	99.6	"	995		77.4	14-130		8.85	30	
4-Nitroaniline	636	199	"	995		63.9	10-147		11.4	30	
4-Nitrophenol	944	199	"	995		94.9	10-137		1.09	30	
Acenaphthene	760	99.6	"	995		76.3	10-146		6.49	30	
Acenaphthylene	742	99.6	"	995		74.6	10-134		0.107	30	
Acetophenone	654	99.6	"	995		65.8	10-116		4.98	30	
Aniline	404	399	"	995		40.6	10-123		28.7	30	
Anthracene	836	99.6	"	995		84.0	10-142		6.90	30	
Atrazine	928	99.6	"	995		93.2	19-115		5.65	30	
Benzaldehyde	654	99.6	"	995		65.8	10-125		4.98	30	
Benzo(a)anthracene	905	99.6	"	995		91.0	10-158		6.92	30	
Benzo(a)pyrene	862	99.6	"	995		86.6	10-180		8.27	30	
Benzo(b)fluoranthene	901	99.6	"	995		90.5	10-200		5.73	30	
Benzo(g,h,i)perylene	938	99.6	"	995		94.2	10-138		4.96	30	
Benzo(k)fluoranthene	855	99.6	"	995		85.9	10-197		5.26	30	
Benzoic acid	345	99.6	"	995		34.6	10-166		4.00	30	
Benzyl alcohol	817	99.6	"	995		82.1	12-124		4.18	30	
Benzyl butyl phthalate	822	99.6	"	995		82.6	10-154		3.55	30	
Bis(2-chloroethoxy)methane	697	99.6	"	995		70.1	10-132		4.67	30	
Bis(2-chloroethyl)ether	740	99.6	"	995		74.3	10-119		37.7	30	Non-dir.
Bis(2-chloroisopropyl)ether	793	99.6	"	995		79.7	10-139		4.31	30	
Bis(2-ethylhexyl)phthalate	885	99.6	"	995		89.0	10-167		2.37	30	
Caprolactam	776	199	"	995		77.9	10-132		1.45	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10572 - EPA 3546 SVOA											
Matrix Spike Dup (BC10572-MSD1)	*Source sample: 21C0344-02 (Matrix Spike Dup)								Prepared & Analyzed: 03/10/2021		
Carbazole	849	99.6	ug/kg dry	995		85.3	10-167		8.41	30	
Chrysene	893	99.6	"	995		89.7	10-156		4.75	30	
Dibenzo(a,h)anthracene	838	99.6	"	995		84.2	10-137		5.47	30	
Dibenzofuran	752	99.6	"	995		75.6	10-147		3.23	30	
Diethyl phthalate	780	99.6	"	995		78.4	20-120		3.85	30	
Dimethyl phthalate	690	99.6	"	995		69.3	18-131		0.461	30	
Di-n-butyl phthalate	878	99.6	"	995		88.2	10-137		6.65	30	
Di-n-octyl phthalate	920	99.6	"	995		92.4	10-180		4.42	30	
Diphenylamine	975	199	"	995		98.0	40-140		6.23	30	
Fluoranthene	1020	99.6	"	995		102	10-160		8.99	30	
Fluorene	748	99.6	"	995		75.1	10-157		1.50	30	
Hexachlorobenzene	839	99.6	"	995		84.3	10-137		2.30	30	
Hexachlorobutadiene	745	99.6	"	995		74.9	10-132		4.59	30	
Hexachlorocyclopentadiene	329	99.6	"	995		33.0	10-106		5.65	30	
Hexachloroethane	595	99.6	"	995		59.8	10-110		0.672	30	
Indeno(1,2,3-cd)pyrene	893	99.6	"	995		89.8	10-144		5.87	30	
Isophorone	756	99.6	"	995		76.0	10-132		1.48	30	
Naphthalene	704	99.6	"	995		70.7	10-141		7.15	30	
Nitrobenzene	722	99.6	"	995		72.6	10-131		5.90	30	
N-Nitrosodimethylamine	608	99.6	"	995		61.0	10-126		4.97	30	
N-nitroso-di-n-propylamine	717	99.6	"	995		72.0	10-125		6.42	30	
N-Nitrosodiphenylamine	1040	99.6	"	995		104	10-177		3.60	30	
Pentachlorophenol	733	99.6	"	995		73.6	10-153		8.62	30	
Phenanthrene	884	99.6	"	995		88.8	10-148		10.8	30	
Phenol	739	99.6	"	995		74.2	10-126		7.49	30	
Pyrene	871	99.6	"	995		87.5	10-165		5.06	30	
Surrogate: SURR: 2-Fluorophenol	*1400*		"	*1990*		*70.6*	*20-108*				
Surrogate: SURR: Phenol-d5	*1480*		"	*1990*		*74.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*852*		"	*995*		*85.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*777*		"	*995*		*78.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2340*		"	*1990*		*118*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*979*		"	*995*		*98.4*	*24-116*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10523 - EPA 3550C											
Blank (BC10523-BLK2)									Prepared: 03/09/2021 Analyzed: 03/10/2021		
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0555*		*"*	*0.0664*		*83.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0445*		*"*	*0.0664*		*67.0*	*30-140*				
LCS (BC10523-BS2)									Prepared: 03/09/2021 Analyzed: 03/10/2021		
Aroclor 1016	0.223	0.0166	mg/kg wet	0.332		67.2	40-130				
Aroclor 1260	0.235	0.0166	"	0.332		70.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0485*		*"*	*0.0664*		*73.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0405*		*"*	*0.0664*		*61.0*	*30-140*				
Batch Y1C1043 - BC10523											
Aroclor Reference (Y1C1043-ARC1)									Prepared & Analyzed: 03/10/2021		
Surrogate: Tetrachloro-m-xylene	*0.196*		*ug/mL*	*0.200*		*98.0*					
Surrogate: Decachlorobiphenyl	*0.166*		*"*	*0.200*		*83.0*					

Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10545 - EPA 3550C											
Blank (BC10545-BLK1)								Prepared: 03/09/2021 Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-DRO	ND	9.90	mg/kg wet								
Surrogate: Triacontane	*10.2*		*"*	*9.90*		*103*	*30-150*				
LCS (BC10545-BS1)								Prepared: 03/09/2021 Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-DRO	125	9.90	mg/kg wet	170		73.3	40-140				
Surrogate: Triacontane	*7.07*		*"*	*9.90*		*71.5*	*30-150*				
Batch BC10575 - EPA 5035A											
Blank (BC10575-BLK1)								Prepared & Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-GRO	ND	80.0	mg/kg wet								
Surrogate: SURR: p-Bromofluorobenzene	*296*		*ug/L*	*200*		*148*	*70-130*				
Duplicate (BC10575-DUP1)	*Source sample: 21C0390-01 (CM-DW-EP-01 B(14))*							Prepared & Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-GRO	136	82.9	mg/kg dry		88.6				42.3	30	Non-dir.
Surrogate: SURR: p-Bromofluorobenzene	*245*		*ug/L*	*200*		*122*	*70-130*				
Matrix Spike (BC10575-MS1)	*Source sample: 21C0390-01 (CM-DW-EP-01 B(14))*							Prepared & Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-GRO	7340		ug/L	20000	854	32.4	70-130	Low Bias			
Surrogate: SURR: p-Bromofluorobenzene	*242*		*"*	*200*		*121*	*70-130*				
Reference (BC10575-SRM1)								Prepared & Analyzed: 03/10/2021			
Total Petroleum Hydrocarbons-GRO	392	20.0	mg/kg wet	237		166	24.9-274				
Surrogate: SURR: p-Bromofluorobenzene	*384*		*ug/L*	*200*		*192*	*70-130*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10548 - EPA 3050B											
Blank (BC10548-BLK1)											Prepared: 03/09/2021 Analyzed: 03/10/2021
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	7.11	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								
Reference (BC10548-SRM1)											Prepared: 03/09/2021 Analyzed: 03/10/2021
Aluminum	8290	5.00	mg/kg wet	8190		101	50.5-150.1				
Antimony	56.6	2.50	"	110		51.4	19-251.7				
Arsenic	149	1.50	"	162		92.1	70.1-129.8				
Barium	134	2.50	"	138		97.3	75-125				
Beryllium	145	0.050	"	157		92.4	75-125.2				
Cadmium	127	0.300	"	135		93.9	74.8-125.2				
Calcium	4270	5.00	"	4790		89.1	72.7-127.5				
Chromium	107	0.500	"	117		91.3	70.1-129.9				
Cobalt	88.7	0.400	"	92.6		95.8	75-125				
Copper	133	2.00	"	143		92.8	75.3-125.3				
Iron	12700	25.0	"	15100		84.4	35.8-164.6				
Lead	67.8	0.500	"	77.6		87.3	70-130				
Magnesium	2210	5.00	"	2320		95.2	61.7-137.8				
Manganese	292	0.500	"	319		91.6	78.1-122				
Nickel	83.0	1.00	"	79.9		104	70.1-130.1				
Potassium	2130	5.00	"	2050		104	59.1-140.9				
Selenium	136	2.50	"	172		79.2	55.7-144.5				
Silver	21.1	0.500	"	24.7		85.5	69.2-130.8				
Sodium	98.6	50.0	"	137		72.0	36.1-163.3				
Thallium	78.6	2.50	"	88.0		89.3	65.3-146.8				
Vanadium	89.4	1.00	"	99.9		89.5	67-133.1				
Zinc	288	2.50	"	312		92.2	69.9-130.1				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10483 - EPA SW846-7471B											
Blank (BC10483-BLK1)								Prepared & Analyzed: 03/08/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BC10483-DUP1)	*Source sample: 21C0390-01 (CM-DW-EP-01 B(14))							Prepared & Analyzed: 03/08/2021			
Mercury	ND	0.0342	mg/kg dry		ND					35	
Matrix Spike (BC10483-MS1)	*Source sample: 21C0390-01 (CM-DW-EP-01 B(14))							Prepared & Analyzed: 03/08/2021			
Mercury	0.371	0.0342	mg/kg dry	0.346	ND	107	75-125				
Reference (BC10483-SRM1)								Prepared & Analyzed: 03/08/2021			
Mercury	3.70	0.330	mg/kg wet	4.85		76.3	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10504 - % Solids Prep											
Duplicate (BC10504-DUP1)	*Source sample: 21C0390-02 (CM-EP-07 B(10))							Prepared & Analyzed: 03/09/2021			
% Solids	96.4	0.100	%		96.6				0.185	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21C0390-01	CM-DW-EP-01 B(14)	8 oz. WM Clear Glass Cool to 4° C
21C0390-01	CM-DW-EP-01 B(14)	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

VOA-CONT	Non-Compliant - the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.
VOA-CO	The result reported is due to carryover from a previous sample run in the batch. Insufficient sample was available for rerun.
S-08	The recovery of this surrogate was outside of QC limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0390

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred Environmental	Company:	Company:
Address: 323 Merrick Ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BConey@PreferredNY.com	E-mail:	E-mail:

YOUR Project Number: Afac-19-018

YOUR Project Name: LIRR Group D Substations Cedar Manor

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- **Standard (5-7 Day)** X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Conf

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ⋮ Other

Samples From: New York; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-DW-EP-01 B(14')	S	3-8-21 1350	total Mercury via 7471A	(1) 4oz
CM-EP-07 B(10')	S	3-8-21 1355	" " " "	" "

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Conf Preferred	3-8-21 3:09	[illegible] York	.5°C 3/8/21 15:09	[illegible] York	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
[illegible]	3/8/21 1610	[illegible]	3/8/21 1920		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				KBlock	3/8/21 1920 / 1.4 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0390

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Prefered ENV	Company:	Company:	AMTC.	RUSH - Next Day X
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same	**YOUR Project Name**	RUSH - Two Day
Phone.: 516-546-1100	Phone.:	Phone.:		RUSH - Three Day
Contact: Bschlageter	Contact:	Contact:		RUSH - Four Day
E-mail: BComey@PreferedENV.com	E-mail:	E-mail:	**YOUR PO#:**	**Standard (5-7 Day)**

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryan Comey

Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-GW-EP-01 B(14')	S	3-9-21	TCL SVOCs via 8270; TAL Metals 6010 (ICP) 7471 (CVAA) as per USEPA + NCHD VIC Requirements	
CM-DW-EP-01 B(14') VOC	S	3-9-21	TCL VOCs via 8260B as per USEPA + NCHD VIC Requirements	

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Prefered	3-9-21 10:14	TMA / YORK	3/9/21 10:14 2.5°C	/ YORK	3/9/21
Ed / [illegible]	3/9/21 10:16	Ed / [illegible]	3/9/21 1932	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	3/9/21, 1932

Temp. Received at Lab 4.8 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 03/10/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0436

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/10/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0436

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 09, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C0436-01	CM-EP-06 B (6ft)	Soil	03/09/2021	03/09/2021

General Notes for York Project (SDG) No.: 21C0436

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/10/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-06 B (6ft)** **York Sample ID:** **21C0436-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0436	AArc-19-018 LIRR group D Substations Cedar Manor	Soil	March 9, 2021 12:55 pm	03/09/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7471B	03/09/2021 20:53	03/09/2021 20:53	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.2**		%	0.100	1	SM 2540G	03/10/2021 08:36	03/10/2021 14:06	OT
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC10564 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C0436-01	CM-EP-06 B (6ft)	03/09/21
BC10564-BLK1	Blank	03/09/21
BC10564-DUP1	Duplicate	03/09/21
BC10564-MS1	Matrix Spike	03/09/21
BC10564-SRM1	Reference	03/09/21

Batch ID: BC10581 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21C0436-01	CM-EP-06 B (6ft)	03/10/21
BC10581-DUP1	Duplicate	03/10/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10564 - EPA SW846-7471B											
Blank (BC10564-BLK1)								Prepared & Analyzed: 03/09/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BC10564-DUP1)	*Source sample: 21C0436-01 (CM-EP-06 B (6ft))							Prepared & Analyzed: 03/09/2021			
Mercury	ND	0.0343	mg/kg dry		ND					35	
Matrix Spike (BC10564-MS1)	*Source sample: 21C0436-01 (CM-EP-06 B (6ft))							Prepared & Analyzed: 03/09/2021			
Mercury	0.304	0.0343	mg/kg dry	0.346	ND	87.8	75-125				
Reference (BC10564-SRM1)								Prepared & Analyzed: 03/09/2021			
Mercury	3.42	0.330	mg/kg wet	4.85		70.6	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10581 - % Solids Prep											
Duplicate (BC10581-DUP1)	*Source sample: 21C0328-03 (Duplicate)							Prepared & Analyzed: 03/10/2021			
% Solids	99.5	0.100	%		97.7				1.82	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0436

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV	Company:	Company:
Address: 323 Merrick ave N Merrick NJ 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BConey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: AMrc-19-018

YOUR Project Name: LIRR group D substations Cedar Manor.

YOUR PO#:

Turn-Around Time: RUSH - Next Day (X); RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Coney

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ⋮ Other

Samples From: New York (X); New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP06 B(6')	S	3-9-21 1255	Total Mercury. Via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply) HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Coney Prefered	3-9-21 1424	Laura Shi / YORK	3/9/21 14:24 6.5°C	Laura Shi / YORK	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Ed Lee	3/9/21 1615	Ed Lee	3/9/21 1932		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				Tyler 3/9/2021 1932	3.4 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 03/16/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0697

Report Date: 03/16/2021
Client Project ID: AArc-19-018 LIRR group D Substations Cedar Manor
York Project (SDG) No.: 21C0697

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C0697-01	CM-WM-EP-01 B(6)	Soil	03/15/2021	03/15/2021

General Notes for York Project (SDG) No.: 21C0697

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/16/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-WM-EP-01 B(6)** **York Sample ID:** **21C0697-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0697	AArc-19-018 LIRR group D Substations Cedar Manor	Soil	March 15, 2021 11:23 am	03/15/2021

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0335	1	EPA 7471B	03/15/2021 20:46	03/15/2021 20:46	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**98.6**		%	0.100	1	SM 2540G	03/16/2021 08:40	03/16/2021 15:47	OT
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC10892 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C0697-01	CM-WM-EP-01 B(6)	03/15/21
BC10892-BLK1	Blank	03/15/21
BC10892-DUP1	Duplicate	03/15/21
BC10892-MS1	Matrix Spike	03/15/21
BC10892-SRM1	Reference	03/15/21

Batch ID: BC10912 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21C0697-01	CM-WM-EP-01 B(6)	03/16/21
BC10912-DUP1	Duplicate	03/16/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10892 - EPA SW846-7471B											
Blank (BC10892-BLK1)								Prepared & Analyzed: 03/15/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BC10892-DUP1)	*Source sample: 21C0659-01 (Duplicate)							Prepared & Analyzed: 03/15/2021			
Mercury	ND	0.0330	mg/kg wet		ND					35	
Matrix Spike (BC10892-MS1)	*Source sample: 21C0659-01 (Matrix Spike)							Prepared & Analyzed: 03/15/2021			
Mercury	0.342	0.0330	mg/kg wet	0.333	ND	103	75-125				
Reference (BC10892-SRM1)								Prepared & Analyzed: 03/15/2021			
Mercury	3.75	0.330	mg/kg wet	4.85		77.3	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC10912 - % Solids Prep											
Duplicate (BC10912-DUP1)	*Source sample: 21C0722-02 (Duplicate)							Prepared & Analyzed: 03/16/2021			
% Solids	98.5	0.100	%		100				1.56	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0697

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV.	Company:	Company:
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: Bschlageter@preferredenv.com	E-mail:	E-mail:

YOUR Project Number: AArc-19-018

YOUR Project Name: LIRR group D Substations Cedar Manor

YOUR PO#:

Turn-Around Time
- RUSH - Next Day (X)
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Cone

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York (X); New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-WM-EP-01 B(6')	S	3-5-21 11:23	Total Mercury via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Preferred	3-15-21 1350	YORK	4.2°C 3/15/21 13:50		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	3/15/21 1615		3/15/21 1933		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					3/15/2021 1933 1.1 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 03/18/2021
Client Project ID: AArc-19-018 LIRR group D substations Cedar Manor
York Project (SDG) No.: 21C0843

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/18/2021
Client Project ID: AArc-19-018 LIRR group D substations Cedar Manor
York Project (SDG) No.: 21C0843

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 17, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR group D substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C0843-01	CM-EP-03 B(1 ft)	Soil	03/17/2021	03/17/2021

General Notes for York Project (SDG) No.: 21C0843

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/18/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-03 B(1 ft)** **York Sample ID:** **21C0843-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C0843	AArc-19-018 LIRR group D substations Cedar Manor	Soil	March 17, 2021 10:30 am	03/17/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0334	1	EPA 7471B	03/17/2021 18:57	03/17/2021 18:57	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**98.7**		%	0.100	1	SM 2540G	03/18/2021 10:46	03/18/2021 17:17	ALH
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC11064 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C0843-01	CM-EP-03 B(1 ft)	03/17/21
BC11064-BLK1	Blank	03/17/21
BC11064-DUP1	Duplicate	03/17/21
BC11064-MS1	Matrix Spike	03/17/21
BC11064-SRM1	Reference	03/17/21

Batch ID: BC11094 **Preparation Method:** % Solids Prep **Prepared By:** ALH

YORK Sample ID	Client Sample ID	Preparation Date
21C0843-01	CM-EP-03 B(1 ft)	03/18/21
BC11094-DUP1	Duplicate	03/18/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC11064 - EPA SW846-7471B											
Blank (BC11064-BLK1)								Prepared & Analyzed: 03/17/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BC11064-DUP1)	*Source sample: 21C0843-01 (CM-EP-03 B(1 ft))							Prepared & Analyzed: 03/17/2021			
Mercury	ND	0.0334	mg/kg dry		ND					35	
Matrix Spike (BC11064-MS1)	*Source sample: 21C0843-01 (CM-EP-03 B(1 ft))							Prepared & Analyzed: 03/17/2021			
Mercury	0.346	0.0334	mg/kg dry	0.338	ND	102	75-125				
Reference (BC11064-SRM1)								Prepared & Analyzed: 03/17/2021			
Mercury	4.07	0.330	mg/kg wet	4.85		84.0	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC11094 - % Solids Prep											
Duplicate (BC11094-DUP1)	*Source sample: 21C0847-03 (Duplicate)							Prepared & Analyzed: 03/18/2021			
% Solids	93.8	0.100	%		94.0				0.221	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C0843

YOUR Information	Report To:	Invoice To:
Company: Preferred ENV	Company:	Company:
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BComey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: AATC-14-018

YOUR Project Name: LIRR group P substations Cedar Manor

YOUR PO#:

Turn-Around Time
- RUSH - Next Day X
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Birga Comey
Samples Collected by: (print your name above and sign below)

Matrix Codes
- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From
- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-03 B(1')	S	3-17-21 10:30	total Mercury via 7471A	(1) 4oz

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Preferred	3-17-21	4oz	3/17/21 3.9 14:25		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	3/17/21 1925				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				3/17/2021 1925	1.0 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 04/01/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21C1526

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/01/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21C1526

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 31, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21C1526-01	CM-EP-02 B 10ft	Soil	03/31/2021	03/31/2021
21C1526-02	CM-EP-04 B 6ft	Soil	03/31/2021	03/31/2021
21C1526-03	CM-EP-01 B 2ft	Soil	03/31/2021	03/31/2021

General Notes for York Project (SDG) No.: 21C1526

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 04/01/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **CM-EP-02 B 10ft** **York Sample ID:** **21C1526-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C1526	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 31, 2021 11:15 am	03/31/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7471B	04/01/2021 02:04	04/01/2021 02:04	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.3**		%	0.100	1	SM 2540G	04/01/2021 08:47	04/01/2021 14:19	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **CM-EP-04 B 6ft** **York Sample ID:** **21C1526-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C1526	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 31, 2021 11:20 am	03/31/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0341	1	EPA 7471B	04/01/2021 02:04	04/01/2021 02:04	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.8**		%	0.100	1	SM 2540G	04/01/2021 08:47	04/01/2021 14:19	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **CM-EP-01 B 2ft** **York Sample ID:** **21C1526-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C1526	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 31, 2021 2:00 pm	03/31/2021

Sample Information

Client Sample ID: **CM-EP-01 B 2ft** **York Sample ID:** **21C1526-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21C1526	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	March 31, 2021 2:00 pm	03/31/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7471B	04/01/2021 02:04	04/01/2021 02:04	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.3**		%	0.100	1	SM 2540G	04/01/2021 08:47	04/01/2021 14:19	JAG
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BD10001 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21C1526-01	CM-EP-02 B 10ft	04/01/21
21C1526-02	CM-EP-04 B 6ft	04/01/21
21C1526-03	CM-EP-01 B 2ft	04/01/21
BD10001-BLK1	Blank	04/01/21
BD10001-DUP1	Duplicate	04/01/21
BD10001-MS1	Matrix Spike	04/01/21
BD10001-SRM1	Reference	04/01/21

Batch ID: BD10016 **Preparation Method:** % Solids Prep **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
21C1526-01	CM-EP-02 B 10ft	04/01/21
21C1526-02	CM-EP-04 B 6ft	04/01/21
21C1526-03	CM-EP-01 B 2ft	04/01/21
BD10016-DUP1	Duplicate	04/01/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD10001 - EPA SW846-7471B											
Blank (BD10001-BLK1)								Prepared & Analyzed: 04/01/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BD10001-DUP1)	*Source sample: 21C1526-01 (CM-EP-02 B 10ft)							Prepared & Analyzed: 04/01/2021			
Mercury	ND	0.0343	mg/kg dry		ND					35	
Matrix Spike (BD10001-MS1)	*Source sample: 21C1526-01 (CM-EP-02 B 10ft)							Prepared & Analyzed: 04/01/2021			
Mercury	0.407	0.0343	mg/kg dry	0.346	ND	117	75-125				
Reference (BD10001-SRM1)								Prepared & Analyzed: 04/01/2021			
Mercury	3.94	0.330	mg/kg wet	4.85		81.3	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD10016 - % Solids Prep											
Duplicate (BD10016-DUP1)	*Source sample: 21C1541-04 (Duplicate)							Prepared & Analyzed: 04/01/2021			
% Solids	89.8	0.100	%		89.2				0.752	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21C1526

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Pretend ENV	Company:	Company:
Address: 323 Merrick ave N Merrick NY 11566	Address: Same	Address: Same
Phone.: 516-546-100	Phone.:	Phone.:
Contact: Bschlaefer@pretendenv.com	Contact:	Contact:
E-mail: BComey@PretendENV.com	E-mail:	E-mail:

YOUR Project Number: AArc-19-018

YOUR Project Name: LIRR Group D Substations Cedar Manor

YOUR PO#:

Turn-Around Time

- RUSH - Next Day X
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Bryan Comey
Samples Collected by: (print your name above and sign below)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-EP-02 B(10')	S	3-31-21 1115	Mercury Vrn - 7471A	(1) 4oz
CM-EP-04 B(4')	S	3-31-21 11:20	" " "	" "
CM-EP-01 B(2')	S	3-31-21 1400	" " "	" "

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered ____ Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Bryan Comey Pretend	3-31-21 1478	TMP Lyon	3/31/21 4.1°C 14:48	Lyon	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	3/31/21 1610		3/31/21 1942		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				K Bloeker	3/31/21 1942 / 2.4 Degrees C

Technical Report

prepared for:

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Report Date: 04/13/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21D0545

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/13/2021
Client Project ID: AArc-19-018 LIRR Group D Substations Cedar Manor
York Project (SDG) No.: 21D0545

Preferred Env. Services
323 Merrick Ave
North Merrick NY, 11566
Attention: Bill Schlageter

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 12, 2021 and listed below. The project was identified as your project: **AArc-19-018 LIRR Group D Substations Cedar Manor**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21D0545-01	CM-B-EP-01	Soil	04/12/2021	04/12/2021
21D0545-02	CM-B-EP-02	Soil	04/12/2021	04/12/2021
21D0545-03	CM-B-EP-03	Soil	04/12/2021	04/12/2021

General Notes for York Project (SDG) No.: 21D0545

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 04/13/2021

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: CM-B-EP-01 **York Sample ID:** 21D0545-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0545	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	April 12, 2021 11:15 am	04/12/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0347	1	EPA 7471B	04/13/2021 00:17	04/13/2021 00:17	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.2**		%	0.100	1	SM 2540G	04/13/2021 09:50	04/13/2021 15:48	OT
							Certifications: CTDOH			

Sample Information

Client Sample ID: CM-B-EP-02 **York Sample ID:** 21D0545-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0545	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	April 12, 2021 12:01 pm	04/12/2021

Mercury by 7470/7471 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0387	1	EPA 7471B	04/13/2021 00:17	04/13/2021 00:17	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.3**		%	0.100	1	SM 2540G	04/13/2021 09:50	04/13/2021 15:48	OT
							Certifications: CTDOH			

Sample Information

Client Sample ID: CM-B-EP-03 **York Sample ID:** 21D0545-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0545	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	April 12, 2021 1:15 pm	04/12/2021

Sample Information

Client Sample ID: CM-B-EP-03 **York Sample ID:** 21D0545-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21D0545	AArc-19-018 LIRR Group D Substations Cedar Manor	Soil	April 12, 2021 1:15 pm	04/12/2021

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0405	1	EPA 7471B	04/13/2021 00:17	04/13/2021 00:17	AA
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.4**		%	0.100	1	SM 2540G	04/13/2021 09:50	04/13/2021 15:48	OT
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BD10609 **Preparation Method:** EPA SW846-7471B **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
21D0545-01	CM-B-EP-01	04/13/21
21D0545-02	CM-B-EP-02	04/13/21
21D0545-03	CM-B-EP-03	04/13/21
BD10609-BLK1	Blank	04/13/21
BD10609-DUP1	Duplicate	04/13/21
BD10609-MS1	Matrix Spike	04/13/21
BD10609-SRM1	Reference	04/13/21

Batch ID: BD10634 **Preparation Method:** % Solids Prep **Prepared By:** OT

YORK Sample ID	Client Sample ID	Preparation Date
21D0545-01	CM-B-EP-01	04/13/21
21D0545-02	CM-B-EP-02	04/13/21
21D0545-03	CM-B-EP-03	04/13/21
BD10634-DUP1	Duplicate	04/13/21

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD10609 - EPA SW846-7471B											
Blank (BD10609-BLK1)								Prepared & Analyzed: 04/13/2021			
Mercury	ND	0.0330	mg/kg wet								
Duplicate (BD10609-DUP1)	*Source sample: 21D0545-01 (CM-B-EP-01)							Prepared & Analyzed: 04/13/2021			
Mercury	ND	0.0347	mg/kg dry		ND					35	
Matrix Spike (BD10609-MS1)	*Source sample: 21D0545-01 (CM-B-EP-01)							Prepared & Analyzed: 04/13/2021			
Mercury	0.372	0.0347	mg/kg dry	0.350	ND	106	75-125				
Reference (BD10609-SRM1)								Prepared & Analyzed: 04/13/2021			
Mercury	3.64	0.330	mg/kg wet	4.85		75.1	46-107				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD10634 - % Solids Prep											
Duplicate (BD10634-DUP1)	*Source sample: 21D0545-03 (CM-B-EP-03)								Prepared & Analyzed: 04/13/2021		
% Solids	77.7	0.100	%		81.4				4.74	20	

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21D0545

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: Preferred Environmental	Company:	Company:
Address: 323 Merrick Rd N Merrick Ny 11566	Address: Same	Address: Same
Phone.: 516-546-1100	Phone.:	Phone.:
Contact: Bill Schlageter	Contact:	Contact:
E-mail: BConey@PreferredENV.com	E-mail:	E-mail:

YOUR Project Number: Merc-19-018

YOUR Project Name: LIRR Group O Substations Cedar Manor

YOUR PO#:

Turn-Around Time
- RUSH - Next Day ✓
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Bryan Coney

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ¦ Other

Samples From
New York ✓
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report
QA Report
NY ASP A Package
NY ASP B Package
CT RCP
CT RCP DQA/DUE
NJDEP Reduced Deliverables
NJDKQP
Standard Excel EDD
EQuIS (Standard)
NYSDEC EQuIS
NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
CM-B-EP-01	S	4-12-21 11:15	Mercury via 7471A	1) 4oz
CM-B-EP-02	S	" 12:01	" " "	" "
CM-B-EP-03	S	" 13:15	" " "	" "

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
[signature]	4-12-21 1411	Tom A / York	4/12/21 1411	Tom A / York	4/12/21
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
[signature]	4/12/21 1600	[signature]	4/12/21		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				K Blocker	3.8 Degrees C

APPENDIX G

Deed Restriction

Department of Finance

May 29, 2024

MTA
2 BROADWAY
4 FLOOR
NEW YORK, NY 10004

RE: Submitted Transaction Successfully Recorded

Dear MTA:

Document Identification Number 2024040900678001 which was submitted and intaken for Recording on 4/24/2024 3:35:32 PM, was successfully recorded on 5/29/2024 at 11:17 AM.

Below summarizes the status of the document(s).

Recording & Endorsement Cover Page(s) attached

2024040900678001

If you have questions or require further information, please send an email to acrishelp@finance.nyc.gov and someone will get back to you.

Thank you.

City Register

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2024040900678001006E2979

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 10**

Document ID: 2024040900678001 Document Date: 10-12-2022 Preparation Date: 04-24-2024
Document Type: DEED WITH RESTRICTIVE COVENANT
Document Page Count: 9

PRESENTER:
MTA
2 BROADWAY
4 FLOOR
NEW YORK, NY 10004
212-878-1039
KCARBY@MTAHQ.ORG

RETURN TO:
MTA
2 BROADWAY
4 FLOOR
NEW YORK, NY 10004
212-878-1039
KCARBY@MTAHQ.ORG

PROPERTY DATA

Borough	Block	Lot	Unit	Address
QUEENS	12162	32	Entire Lot	N/A BRINKERHOFF AVENUE

Property Type: NON-RESIDENTIAL VACANT LAND

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ATTN: KYLE PERO, 625 BROADWAY, 14TH FLOOR
ALBANY, NY 12233-1500

GRANTEE/BUYER:
LONG ISLAND RAIL ROAD
93-02 SUTPHIN BLVD
JAMAICA, NY 11435

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	EXEMPT
Affidavit Fee:	$	0.00

Filing Fee:	$	0.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 05-29-2024 11:17
City Register File No.(CRFN): **2024000135546**

City Register Official Signature

NEW YORK CITY DEPARTMENT OF FINANCE

NYC - RPT
Department of Finance

REAL PROPERTY TRANSFER TAX RETURN

(Pursuant to Title 11, Chapter 21, NYC Administrative Code)

▲ DO NOT WRITE IN THIS SPACE ▲
FOR OFFICE USE ONLY

GRANTOR

● Name: NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

● Grantor is a(n): (check one) ☐ individual ☐ partnership ☐ corporation ☐ single member LLC ☐ multiple member LLC (see instructions) ☑ other GOVERNMENT AGENCY

Telephone Number:

● Permanent mailing address after transfer (number and street): ATTN: KYLE PERO 625 BROADWAY, 14TH FLOOR

● City and State: ALBANY, NY

Zip Code: 12233-1500

● Single member's name if grantor is a single member LLC:

SOCIAL SECURITY NUMBER: ___ - ___ - ____

OR

EMPLOYER IDENTIFICATION NUMBER: 14-6013200

SINGLE MEMBER EIN OR SSN:

GRANTEE

● Name: LONG ISLAND RAIL ROAD

● Grantee is a(n): (check one) ☐ individual ☐ partnership ☐ corporation ☐ single member LLC ☐ multiple member LLC (see instructions) ☑ other GOVERNMENT AGENCY

Telephone Number:

● Permanent mailing address after transfer (number and street): 93-02 SUTPHIN BLVD

● City and State: JAMAICA, NY

Zip Code: 11435

● Single member's name if grantee is a single member LLC:

SOCIAL SECURITY NUMBER: ___ - ___ - ____

OR

EMPLOYER IDENTIFICATION NUMBER: 11-6002502

SINGLE MEMBER EIN OR SSN:

PROPERTY LOCATION

LIST EACH LOT SEPARATELY. ATTACH A RIDER IF ADDITIONAL SPACE IS REQUIRED

● Address (number and street)	Apt. No.	Borough	Block	Lot	# of Floors	Square Feet	● Assessed Value of Property
N/A BRINKERHOFF AVENUE		QUEENS	12162	32	0	10,900	

● DATE OF TRANSFER TO GRANTEE: 10/12/2012

● PERCENTAGE OF INTEREST TRANSFERRED: 100 %

CONDITION OF TRANSFER. See Instructions

● Check (✓) all of the conditions that apply and fill out the appropriate schedules of this return. Additionally, Schedules1 and 2 **must** be completed for all transfers.

a. ☑ ..... Arms length transfer
b. ☐ ..... Transfer in exercise of option to purchase
c. ☐ ..... Transfer from cooperative sponsor to cooperative corporation
d. ☐ ..... Transfer by referee or receiver (complete Schedule A)
e. ☐ ..... Transfer pursuant to marital settlement agreement or divorce decree (complete Schedule I)
f. ☐ ..... Deed in lieu of foreclosure (complete Schedule C)
g. ☐ ..... Transfer pursuant to liquidation of an entity (complete Schedule D)
h. ☐ ..... Transfer from principal to agent, dummy, strawman or conduit or vice-versa (complete Schedule E)
i. ☐ ..... Transfer pursuant to trust agreement or will (attach a copy of trust agreement or will)
j. ☐ ..... Gift transfer not subject to indebtedness
k. ☐ ..... Gift transfer subject to indebtedness
l. ☐ ..... Transfer to a business entity in exchange for an interest in the business entity (complete Schedule F)
m. ☐ ..... Transfer to a governmental body
n. ☐ ..... Correction deed
o. ☐ ..... Transfer by or to a tax exempt organization (complete Schedule G)
p. ☐ ..... Transfer of property partly within and partly without NYC
q. ☐ ..... Transfer of successful bid pursuant to foreclosure
r. ☐ ..... Transfer by borrower solely as security for a debt or a transfer by lender solely to return such security
s. ☐ ..... Transfer wholly or partly exempt as a mere change of identity or form of ownership. Complete Schedule M)
t. ☐ ..... Transfer to a REIT or to a corporation or partnership controlled by a REIT. (Complete Schedule R)
u. ☐ ..... Other transfer in connection with financing (describe): _____
v. ☐ .....A grant or assignment of a leasehold interest in a tax-free NY area
w. ☐ ..... Transfer to an HDFC or an entity controlled by an HDFC. (Complete Schedule L)
x. .....Reserved
y. .....Reserved
z. ☑ ..... Other (describe) DECLARATION OF COVENANTS AND RESTRICTIONS

2022110400222101O2

● TYPE OF PROPERTY (✓)

a. ☐ ..... 1-3 family house
b. ☐ ..... Individual residential condominium unit
c. ☐ ..... Individual cooperative apartment
d. ☐ ..... Commercial condominium unit
e. ☐ ..... Commercial cooperative
f. ☐ ..... 4 family dwelling
g. ☐ ..... Apartment building
h. ☐ ..... Office building
i. ☐ ..... Industrial building
j. ☐ ..... Utility
k. ☑ ..... OTHER (describe): NON-RESIDENTIAL VACANT LAND

● TYPE OF INTEREST (✓)

Check box at LEFT if you intend to record a document related to this transfer. Check box at RIGHT if you do not intend to record a document related to this transfer.

	REC.		NON REC.
a.	☐	Fee	☐
b.	☐	Leasehold Grant	☐
c.	☐	Leasehold Assignment or Surrender	☐
d.	☐	Easement	☐
e.	☐	Subterranean Rights	☐
f.	☐	Development Rights	☐
g.	☐	Stock	☐
h.	☐	Partnership Interest	☐
i.	☑	OTHER. (describe):	☐

DEED RESTRICTIONS

SCHEDULE 1 - DETAILS OF CONSIDERATION

COMPLETE THIS SCHEDULE FOR ALL TRANSFERS AFTER COMPLETING THE APPROPRIATE SCHEDULES ON PAGES 5 THROUGH 12. ENTER "ZERO" ON LINE 11 IF THE TRANSFER REPORTED WAS WITHOUT CONSIDERATION.

1.	Cash	1.	0 00
2.	Purchase money mortgage	2.	0 00
3.	Unpaid principal of pre-existing mortgage(s)	3.	0 00
4.	Accrued interest on pre-existing mortgage(s)	4.	0 00
5.	Accrued real estate taxes	5.	0 00
6.	Amounts of other liens on property	6.	0 00
7.	Value of shares of stock or of partnership interest received	7.	0 00
8.	Value of real or personal property received in exchange	8.	0 00
9.	Amount of Real Property Transfer Tax and/or other taxes or expenses of the grantor which are paid by the grantee	9.	0 00
10.	Other (describe):	10.	0 00
11.	**TOTAL CONSIDERATION** (add lines 1 through 10 - must equal amount entered on line 1 of Schedule 2) (see instructions)	11.	$ 0 00

See instructions for special rules relating to transfers of cooperative units, liquidations, marital settlements and transfers of property to a business entity in return for an interest in the entity.

SCHEDULE 2 - COMPUTATION OF TAX

A. **Payment**	Pay amount shown on line 15 - *See Instructions*	Payment Enclosed	

1.	Total Consideration (from line 11, above)	1.	0 00
2.	Excludable liens (see instructions)	2.	0 00
3.	Consideration (line 1 less line 2)	3.	0 00
4.	Tax Rate (see instructions)	4.	0 %
5.	HDFC Exemption (see Schedule L, line 15)	5.	0 00
6.	Consideration less HDFC Exemption (line 3 less line 5)	6.	0 00
7.	Percentage change in beneficial ownership (see instructions)	7.	100 %
8	Taxable consideration (multiply line 6 by line 7)	8.	0 00
9.	Tax (multiply line 8 by line 4)	9.	0 00
10.	Credit (see instructions)	10.	0 00
11.	Transfer tax previously paid (see Schedule L, line 18)	11.	0 00
12.	Tax due (line 9 less line 10 and 11) (if the result is negative, enter zero)	12.	0 00
13.	Interest (see instructions)	13.	0 00
14.	Penalty (see instructions)	14.	0 00
15.	**Total Tax Due** (add lines 12, 13 and 14)	15.	$ 0 00

GRANTOR'S ATTORNEY ▼

Name of Attorney: KYLE PERO			Telephone Number: (518) 402-9495
Address (number and street): 625 BROADWAY 14TH FLOOR		City and State: ALBANY, NY	Zip Code: 12233-1500
EMPLOYER IDENTIFICATION NUMBER:		OR SOCIAL SECURITY NUMBER:	

GRANTEE'S ATTORNEY ▼

Name of Attorney: COLLEEN CHANNER			Telephone Number: (212) 878-1035
Address (number and street): 2 BROADWAY		City and State: NEW YORK, NY	Zip Code: 10004
EMPLOYER IDENTIFICATION NUMBER:		OR SOCIAL SECURITY NUMBER:	

CERTIFICATION ▼

I swear or affirm that this return, including any accompanying schedules, affidavits and attachments, has been examined by me and is, to the best of my knowledge, a true and complete return made in good faith, pursuant to Title 11, Chapter 21 of the Administrative Code and the regulations issued thereunder.

GRANTOR

Sworn to and subscribed to

before me on this _____ day

of _____, _____.

14-6013200
EMPLOYER IDENTIFICATION NUMBER OR SOCIAL SECURITY NUMBER

NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Name of Grantor

_____
Signature of Notary

_____
Signature of Grantor

Notary's stamp or seal

GRANTEE

Sworn to and subscribed to

before me on this _____ day

of _____, _____.

11-6002502
EMPLOYER IDENTIFICATION NUMBER OR SOCIAL SECURITY NUMBER

LONG ISLAND RAIL ROAD
Name of Grantee

_____
Signature of Notary

_____
Signature of Grantee

Notary's stamp or seal

2022110400222101

FOR CITY USE ONLY

C1. County Code | **C2. Date Deed Recorded** Month / Day / Year

C3. Book **OR** **C4. Page**

C5. CRFN

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: N/A (STREET NUMBER) | BRINKERHOFF AVENUE (STREET NAME) | QUEENS (BOROUGH) | 00000 (ZIP CODE)

2. Buyer Name: LONG ISLAND RAIL ROAD (LAST NAME / COMPANY) | (FIRST NAME)

(LAST NAME / COMPANY) | (FIRST NAME)

3. Tax Billing Address Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)

(LAST NAME / COMPANY) | (FIRST NAME)

(STREET NUMBER AND STREET NAME) | (CITY OR TOWN) | (STATE) | (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels **OR** ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC

4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: (FRONT FEET) X (DEPTH) **OR** (ACRES)

Check the boxes below as they apply:

6. Ownership Type is Condominium ☐

7. New Construction on Vacant Land ☐

8. Seller Name: NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (LAST NAME / COMPANY) | (FIRST NAME)

(LAST NAME / COMPANY) | (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☐ Residential Vacant Land
D ☑ Non-Residential Vacant Land
E ☐ Commercial Apartment
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 10 / 12 / 2022 (Month / Day / Year)

11. Date of Sale / Transfer: 10 / 12 / 2022 (Month / Day / Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☐ Sale Between Related Companies or Partners in Business
C ☐ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type **not** Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☑ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: U 7

16. Total Assessed Value (of all parcels in transfer): 0

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

QUEENS 12162 32

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

BUYER SIGNATURE | DATE

93-02 SUTPHIN BLVD

STREET NUMBER | STREET NAME (AFTER SALE)

JAMAICA | NY | 11435

CITY OR TOWN | STATE | ZIP CODE

BUYER'S ATTORNEY

LAST NAME | FIRST NAME

AREA CODE | TELEPHONE NUMBER

SELLER

SELLER SIGNATURE | DATE

TP-584-NYC (9/19)

Department of Taxation and Finance

Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax for the Conveyance of Real Property Located in New York City

Recording office time stamp

See Form TP-584-NYC-I, Instructions for Form TP-584-NYC, *before completing this form. Print or type.*

Schedule A – Information relating to conveyance

Grantor/Transferor

☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☐ Single member LLC ☐ Multi-member LLC ☑ Other

Name *(if individual, last, first, middle initial)* (☐ *mark an X if more than one grantor)*: NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Social Security number (SSN):

Mailing address: ATTN: KYLE PERO 625 BROADWAY, 14TH FLOOR

SSN:

City	State	ZIP code	Employer identification number (EIN)
ALBANY	NY	12233-1500	14 6013200

Single member's name if grantor is a single member LLC *(see instructions)*

Single member EIN or SSN

Grantee/Transferee

☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☐ Single member LLC ☐ Multi-member LLC ☑ Other

Name *(if individual, last, first, middle initial)* (☐ *mark an X if more than one grantee)*: LONG ISLAND RAIL ROAD

SSN:

Mailing address: 93-02 SUTPHIN BLVD

SSN:

City	State	ZIP code	EIN
JAMAICA	NY	11435	11 6002502

Single member's name if grantee is a single member LLC *(see instructions)*

Single member EIN or SSN

Location and description of property conveyed

Tax map designation – Section, block & lot *(include dots and dashes)*	SWIS code (six digits)	Street address	City, town, or village	County
4 - 12162 32 -	650000	N/A BRINKERHOFF AVENUE	NEW YORK	QUEENS

Type of property conveyed *(mark an X in applicable box)*

1 ☐ One- to three-family house
2 ☐ Residential cooperative
3 ☐ Residential condominium
4 ☑ Vacant land
5 ☐ Commercial/Industrial
6 ☐ Apartment building
7 ☐ Office building
8 ☐ Four-family dwelling
9 ☐ Other _____

Date of conveyance: 10 (month) 12 (day) 2022 (year)

☐ Contract executed on or before April 1, 2019 *(see instructions)*

Percentage of real property conveyed which is residential real property 0 % *(see instructions)*

Condition of conveyance *(mark all that apply)*

a. ☐ Conveyance of fee interest
b. ☐ Acquisition of a controlling interest (state percentage acquired _____ %)
c. ☐ Transfer of a controlling interest (state percentage transferred _____ %)
d. ☐ Conveyance to cooperative housing corporation
e. ☐ Conveyance pursuant to or in lieu of foreclosure or enforcement of security interest *(attach Form TP-584.1, Schedule E)*
f. ☐ Conveyance which consists of a mere change of identity or form of ownership or organization *(attach Form TP-584.1, Schedule F)*
g. ☐ Conveyance for which credit for tax previously paid will be claimed *(attach Form TP-584.1, Schedule G)*
h. ☐ Conveyance of cooperative apartment(s)
i. ☐ Syndication
j. ☐ Conveyance of air rights or development rights
k. ☐ Contract assignment
l. ☐ Option assignment or surrender
m. ☐ Leasehold assignment or surrender
n. ☐ Leasehold grant
o. ☐ Conveyance of an easement
p. ☑ Conveyance for which exemption from transfer tax claimed *(complete Schedule B, Part 4)*
q. ☐ Conveyance of property partly within and partly outside the state
r. ☐ Conveyance pursuant to divorce or separation
s. ☑ Other *(describe)* DECLARATION OF COVENANTS & RES

For recording officer's use	Amount received	Date received	Transaction number
	Schedule B, Part 1 $		
	Schedule B, Part 2 $		
	Schedule B, Part 3 $		

Schedule B – Real estate transfer tax return (Tax Law, Article 31)

Part 1 – Computation of tax due *(in addition to the tax on line 4, you must compute the tax on lines 5a and 5b, if applicable)*

1	Enter amount of consideration for the conveyance *(if you are claiming a total exemption from tax, mark the exemption claimed box, enter consideration and proceed to Part 4)* ☑ **Exemption claimed**	**1.**	0	00
2	Continuing lien deduction *(see instructions if property is taken subject to mortgage or lien)*	**2.**	0	00
3	Taxable consideration *(subtract line 2 from line 1)*	**3.**	0	00
4	Tax: $2 for each $500, or fractional part thereof, of consideration on line 3	**4.**	0	00
5a	Tax: $1.25 for each $500, or fractional part thereof, of consideration for the conveyance of residential real property located in New York City if the amount on line 3 is $3 million or more *(see instructions)*	**5a.**	0	00
5b	Tax: $1.25 for each $500, or fractional part thereof, of consideration for the conveyance of property located in New York City other than residential real property, if the amount on line 1 is $2 million or more *(see instructions)*	**5b.**	0	00
6	Total before credit(s) claimed *(add lines 4, 5a, and 5b)*	**6.**	0	00
7	Amount of credit claimed for tax previously paid *(see instructions and attach Form TP-584.1, Schedule G)*	**7.**	0	00
8	Total tax due* *(subtract line 7 from line 6)*	**8.**	0	00

Part 2 – Computation of additional tax due on the conveyance of residential real property for $1 million or more *(see instructions)*

1	Enter amount of consideration for conveyance *(from Part 1, line 1)*	**1.**	0	00
2	Taxable consideration *(multiply line 1 by the percentage of the premises which is residential real property, as shown in Schedule A)*	**2.**	0	00
3	Total additional transfer tax due* *(multiply line 2 by 1% (.01))*	**3.**	0	00

Part 3 – Computation of supplemental tax due on the conveyance of residential real property, or interest therein, located in New York City, for $2 million or more *(see instructions)*

1	Enter amount of consideration for conveyance *(from Part 1, line 1)*	**1.**		
2	Taxable consideration *(multiply line 1 by the percentage of the premises which is residential real property, as shown in Schedule A)*	**2.**		
3	Total supplemental transfer tax due* *(multiply line 2 by tax rate, see instruction for rates)*	**3.**		00

*** The total tax (from Part 1, line 8; Part 2, line 3; and Part 3, line 3 above) is due within 15 days from the date of conveyance.**

Part 4 – Explanation of exemption claimed on Part 1, line 1 *(mark any boxes that apply)*

The conveyance of real property is exempt from the real estate transfer tax for the following reason:

a. Conveyance is to the United Nations, the United States of America, New York State, or any of their instrumentalities, agencies, or political subdivisions (or any public corporation, including a public corporation created pursuant to agreement or compact with another state or Canada) ..... a ☑

b. Conveyance is to secure a debt or other obligation ..... b ☐

c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior conveyance ..... c ☐

d. Conveyance of real property is without consideration and not in connection with a sale, including conveyances conveying realty as bona fide gifts ..... d ☐

e. Conveyance is given in connection with a tax sale ..... e ☐

f. Conveyance is a mere change of identity or form of ownership or organization where there is no change in beneficial ownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corporation of real property comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F ..... f ☐

g. Conveyance consists of deed of partition ..... g ☐

h. Conveyance is given pursuant to the federal Bankruptcy Act ..... h ☐

i. Conveyance consists of the execution of a contract to sell real property, without the use or occupancy of such property, or the granting of an option to purchase real property, without the use or occupancy of such property ..... i ☐

j. Conveyance of an option or contract to purchase real property with the use or occupancy of such property where the consideration is less than $200,000 and such property was used solely by the grantor as the grantor's personal residence and consists of a one-, two-, or three-family house, an individual residential condominium unit, or the sale of stock in a cooperative housing corporation in connection with the grant or transfer of a proprietary leasehold covering an individual residential cooperative apartment ..... j ☐

k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, § 1401(e) *(attach documents supporting such claim)* ..... k ☐

Schedule C – Credit Line Mortgage Certificate (Tax Law, Article 11)

Complete the following only if the interest being transferred is a fee simple interest.
I (we) certify that: *(mark an **X** in the appropriate box)*

1. ☐ The real property being sold or transferred is not subject to an outstanding credit line mortgage.

2. ☐ The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:
   - a ☐ The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.
   - b ☐ The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).
   - c ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
   - d ☐ The maximum principal amount secured by the credit line mortgage is $3,000,000 or more, and the real property being sold or transferred is **not** principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.

     Note: for purposes of determining whether the maximum principal amount secured is $3,000,000 or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.
   - e ☐ Other *(attach detailed explanation)*.

3. ☐ The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:
   - a ☐ A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
   - b ☐ A check has been drawn payable for transmission to the credit line mortgagee or his agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.

4. ☐ The real property being transferred is subject to an outstanding credit line mortgage recorded in _____ (insert liber and page or reel or other identification of the mortgage). The maximum principal amount of debt or obligation secured by the mortgage is _____. No exemption from tax is claimed and the tax of _____ is being paid herewith. *(Make check payable to county clerk where deed will be recorded or, if the recording is to take place in New York City but not in Richmond County, make check payable to the **NYC Department of Finance.**)*

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

Grantor signature	Title	Grantee signature	Title
Grantor signature	Title	Grantee signature	Title

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you marked *e*, *f*, or *g* in Schedule A, did you complete Form TP-584.1? If the contract was executed prior to April 1, 2019, did you attach the necessary verification? Have you attached your check(s) made payable to the county clerk where recording will take place or, if the recording is in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, to the ***NYC Department of Finance***? If no recording is required, send this return and your check(s), made payable to the ***NYS Department of Taxation and Finance***, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045. If not using U.S. Mail, see Publication 55, *Designated Private Delivery Services*.

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

Grantor signature	Title	Grantee signature	Title
Grantor signature	Title	Grantee signature	Title

Schedule D – Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, § 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust.

If the property is being conveyed by a referee pursuant to a foreclosure proceeding, proceed to Part 2, mark the second box under *Exemptions for nonresident transferor(s)/seller(s)*, and sign at bottom.

Part 1 – New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Form TP-584-NYC, Schedule A (or an attachment to Form TP-584-NYC), you must sign the certification below. If one or more transferors/sellers of the real property or cooperative unit is a resident of New York State, **each** resident transferor/seller must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, § 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Note: A resident of New York State may still be required to pay estimated tax under Tax Law, § 685(c), but not as a condition of recording a deed.

Part 2 – Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Form TP-584-NYC, Schedule A (or an attachment to Form TP-584-NYC) but are not required to pay estimated personal income tax because one of the exemptions below applies under Tax Law, § 663(c), mark the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor(s)/seller(s), that transferor(s)/seller(s) is not required to pay estimated personal income tax to New York State under Tax Law, § 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers.

If none of these exemption statements apply, you must complete Form IT-2663, *Nonresident Real Property Estimated Income Tax Payment Form*, or Form IT-2664, *Nonresident Cooperative Unit Estimated Income Tax Payment Form.* For more information, see *Payment of estimated personal income tax,* on Form TP-584-NYC-I, page 1.

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, § 663 due to one of the following exemptions:

☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ (Date) to _____ (Date) *(see instructions)*.

☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.

☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, section 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, section 663 due to one of the following exemptions:

☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ (Date) to _____ (Date) *(see instructions)*.

☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.

☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 12th day of OCTOBER 2022 by MTA Long Island Rail Road (LIRR), a subsidiary public benefit corporation of the MTA and has its offices for the transaction of business at 93-02 Sutphin Boulevard, Jamaica, NY 11435.

WHEREAS, Cedar Manor Substation is the subject of a Consent Order, DEC Index No. CO 1-20180613-127, with an effective date of which is July 13, 2018 (together with exhibits, appendices-and any subsequent modifications "the July 2018 Order"). executed by the LIRR as part of the New York State Department of Environmental Conservation's (the "Department's) inactive hazardous waste disposal site remedial programs pursuant to Article 27, Title 13 of the Environmental Conservation Law ("ECL") and Part 375 of Title 6 of the Official Compilation of Codes Rules and Regulations ("6 NYCRR") Program, namely that parcel of real property located on 158th Street and Tracks in the Village of Jamaica in the Borough of Queens, County of Queens, State of New York, which is part of lands conveyed by William Wood and John Green, Executors to the Last Will and Testament of William Wallace to South Side Rail Road Company by deed dated August 2, 1886 and recorded in the Queens County for NYC Deeds Select Recording Office in Liber 352 and Page 415, and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, MTA Long Island Rail Road, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, which are described in the SMP, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for railroad and/or transportation purposes without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment to render it safe for drinking water or for industrial purposes, as appropriate, and the user must first notify and obtain written approval to do so from the Department or Relevant Agency.

Sixth, the owner of the Property shall provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired.

Seventh, the owner of the Property shall continue in full force and effect any institutional and engineering controls required for the Remedy and maintain such controls, unless the owner first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP, which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Consent Order requires to be recorded, and hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

MTA Long Island Rail Road:

By: _____

Print Name: David Florio

Title: Chief Real Estate Transactions and Operations Officer

Date: 10/12/22

STATE OF NEW YORK)
) ss:
COUNTY OF New York)

On the 12th day of October, in the year 2022, before me, the undersigned, personally appeared David Florio, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Pam Geary
Notary Public - State of New York

PAM GEARY
Notary Public, State of New York
No. 01GE6036159
Qualified in Nassau County
Commission Expires February 28, 2026

EXECUTOR'S DEED. W. Reid Gould, Successor to Hansen & Bell, 158 Nassau St., N.Y.

APPENDIX "A"

This Indenture,

made the Second day of August in the year one thousand eight hundred and Sixty Six Between William D Wood and John Green Executors, and Jane Wallace ~~Executrix~~ of the last Will and Testament of William Wallace late of the Town of Jamaica Queens County deceased, parties of the first part and The South Side Rail Road Company of Long Island parties

of the second part, Witnesseth, That the said partys of the first part, by virtue of the power and authority to them given in and by the said last Will and Testament, and for and in consideration of the sum of one thousand four hundred & seventy four dollars lawful money of the United States of America, to them in hand paid, at or before the ensealing and delivery of these presents, by the said parties of the second part, the receipt whereof is hereby acknowledged, and the said parties of the second part, ~~their heirs, executors and administrators,~~ successors and assigns for ever released and discharged from the same by these presents, hath granted, bargained, sold, aliened, released, conveyed, and confirmed, and by these presents doth grant, bargain, sell, alien, release, convey and confirm unto the said parties of the second part ~~their successors heirs~~ and assigns for ever, All ~~that certain tract~~ piece or parcel of land situate lying and being in the village of Jamaica, Queens Co and State of New York bounded as follows Beginning at a stake on South street at the southeast corner of the property of the said Wallace distant Twenty seven feet westerly at right angles from the center track line of the said South Side Rail Road and thence running along the west line of the property of the said Wallace south twenty two degrees west about two thousand six hundred and fifty two feet thence south eighty three degrees east about eighty nine feet to a point distant westerly twenty seven feet at right angles from said center track line thence ~~concentric~~ with said center track line on the arc of a circle with a radius of one thousand nine hundred and forty three feet about one hundred and twenty one feet thence on a line parallel to and with said center track line at a distance of twenty nine feet perpendicularly therefrom south forty four and one quarter degrees east about eight hundred and nine feet to the south line of the property of the said Wallace thence along said south line south twenty two degrees east about twenty two feet to a point distant south easterly thirty nine feet at right angles from said center track line thence on a line parallel with said center track line south forty four and one quarter degrees east about seven hundred and eighty feet thence concentric with said center track line at a distance of thirty nine feet perpendicularly therefrom on the arc of a circle with a radius of one thousand eight hundred and seventy seven feet about seven hundred and sixty four feet thence parallel with said center track line a distance of thirty nine feet perpendicularly therefrom north twenty two degrees east about ninety eight feet thence south eighty three degrees west about sixteen feet to a point distant twenty three feet perpendicularly from said center track line thence on a line parallel with said center track line North twenty two degrees east about one thousand feet thence North eighty three degrees east about sixteen feet to a point distant thirty nine feet north easterly at right angles from the said center track line thence along a line parallel with said center track line North twenty two degrees west about one thousand one hundred and eighty four feet to the north line of the property of the said Wallace thence along said north line south sixty three degrees west about sixty seven feet to the point of beginning. Such tract containing about four acres and ninety one hundredths of an acre.

Together with all and singular the edifices, buildings, rights, members, privileges, advantages, hereditaments and appurtenances to the same belonging or in any wise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof. **And also**, all the estate, right, title, interest, claim and demand whatsoever, both in law and equity, which the said Testator had in his lifetime, and at the time of his decease, and which the said party of the first part hath, by virtue of the said last Will and Testament or otherwise, of, in and to the same, and every part and parcel thereof, with the appurtenances. **To have and to hold** the said premises above mentioned and described, and hereby granted and conveyed, or intended so to be, with the appurtenances, unto the said parties of the second part, ~~their~~ ~~successors~~ ~~heirs~~ and assigns, to their only proper use, benefit and behoof for ever. **And** the said ~~party~~ parties of the first part, for ~~himself~~ themselves, ~~his~~ heirs, executors and administrators, doth covenant, grant, promise and agree to and with the said parties of the second part, ~~their successors~~ ~~heirs~~ and assigns, that the said parties of the second part, ~~their successors~~ heirs and assigns, shall and lawfully may from time to time, and at all times for ever hereafter, peaceably and quietly have, hold, use, occupy, possess and enjoy, all and singular the said hereditaments and premises hereby granted and conveyed, or intended so to be, with their and every of their appurtenances, and receive and take the rents, issues and profits thereof, to and for their own use and benefit without any lawful let, suit, hindrance, molestation, interruption or denial whatsoever, of, from, or by the said parties of the first part, ~~their~~ heirs or assigns; or of, from, or by any other person or persons whomsoever lawfully claiming or who shall or may lawfully claim hereafter, by, from or under ~~them~~ or by, from or under right, title, interest or estate; **And** that the same now are free and clear and freely and clearly discharged, acquitted and exonerated, or otherwise well and sufficiently saved, defended, kept harmless and indemnified by the said party of the first part, heirs and assigns of, from and against all and all manner of former and other gifts, grants, bargains, sales, mortgages, judgments, and all other charges and incumbrances whatsoever, had, made, committed, executed, or done by the said party of the first part, or by, through, or with acts, deeds, means, assent, procurement or privity.

In Witness whereof, the said parties to these presents have hereunto interchangeably set their hands and seals the day and year first above written.

Sealed and delivered in the presence of
J. V. E. Griffin as to Wm D Wood

Wm D Wood [seal]
Nelson Green [seal]
Peter
Ann Wallace [seal]

State of New York, } ss.
County of Queens }

On this second day of August in the year one thousand eight hundred and sixty six before me came William D Wood to me known to be the person described in and who executed the foregoing instrument and acknowledged to me that he executed the same as Executor of the last will and testament of William Wallace dec'd.

John V E Griffin
Justice of the Peace

State of New York
City and County
of New York } ss

On this the twenty eighth day of September 1868 before me came John Green and Ann Wallace to me known to be the persons described and who executed the foregoing instrument and who severally acknowledged that they executed the same. the said John Green executing the same as Executor of the last will and testament of Willard Wallace dec'd

S. R. Turner
Notary Public
for the City & County of New York

Recorded in Queens County Clerk's Office in Liber 352 of Deeds page 345, August 2. 1871 at 9. A. M.
Examined by. John H. Scudder
Clerk

42

[illegible] D'Wo[illegible]
[illegible] Executors
of William Wallace, dec'd
Village of Jamaica
TO
The South Side Rail
Road Company of L.I.

3806 ft. = 2806 by 66 ft. wide
and 1000 " 50 " "

EXECUTOR'S DEED. 8/475.

Dated July Aug. 21. 1866

[illegible] by lands of [illegible] Dittmars
[illegible] " " " South St.
[illegible] Jamaica S. by a.d.
Sec. 18 Map 3. N.S.R.

L1 1 A 95

[illegible] Co. Al[illegible]

56° Lib 352 p. 315
Alex Wagner
Atty Commiller
Jamaica

Canal and Dock
Land Rights & Leases
Book DW (N.S.S.)
Page [illegible]
Block 1854 Lot [illegible]
Maps [illegible]
N.O.D. CC

State of New York,
City and County of New York, } ss.

I, **CHARLES E. LOEW**, Clerk of the City and County of New York, and also Clerk of the Supreme Court for the said City and County, the same being a Court of Record, DO HEREBY CERTIFY, That Hyp. A. Bunce

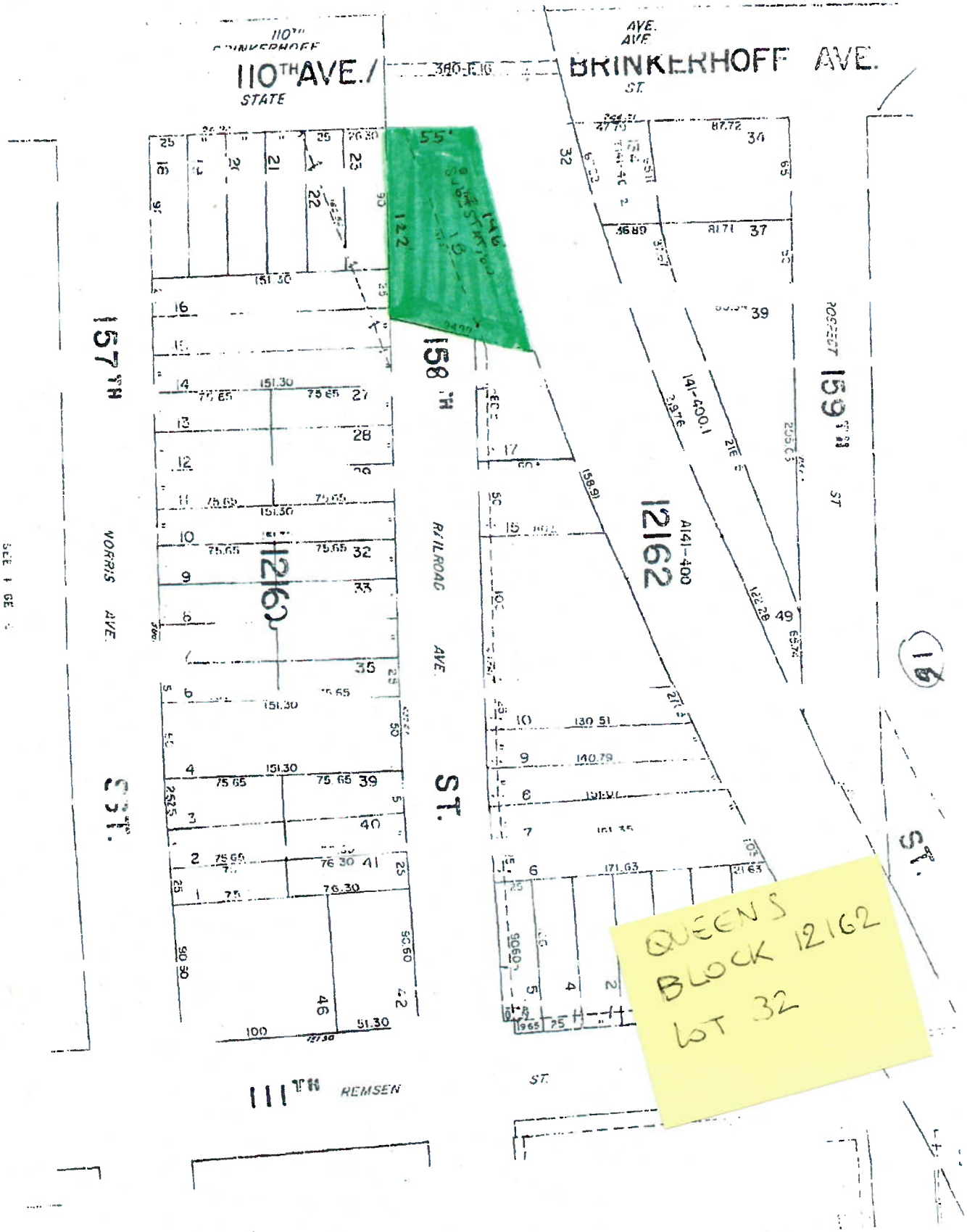
whose name is subscribed to the certificate of the proof or acknowledgment of the annexed instrument, and thereon written, was, at the time of taking such proof or acknowledgment, a Notary Public in and for the City and County of New York, dwelling in the said City, commissioned and sworn, and duly authorized to take the same. And further, that I am well acquainted with the handwriting of such Notary, and verily believe that the signature to the said certificate of proof or acknowledgment is genuine. *I further Certify that said Instrument is executed and acknowledged according to the law of the State of New York.*



In Testimony Whereof, I have hereunto set my hand and affixed the Seal of the said Court and County, the 1 day of May 187

Chas E Loew Clerk.

APPENDIX "B"


110TH AVE.
STATE
BRINKERHOFF AVE.
157TH
158TH
159TH
ST.
WORRIS AVE.
RAILROAD AVE.
111TH
REMSEN
12162
A141-400
QUEENS
BLOCK 12162
LOT 32