Interim Remedial Measure (IRM) for Limited Remedial Investigation (LRI)/Limited Remedial Action (LRA)

Natural Gas Main Extension Project

Westchester County Airport

Site No. C360174

West Harrison, New York

December 16, 2025 | Terracon Project No. JA257006

Prepared for:

County of Westchester
148 Martine Avenue
White Plains, New York 10601



Prepared by:

Terracon Consultants-NY, Inc.
Rochester, New York

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

CERTIFICATION

I, Donald L. Pomeroy, certify that I am currently a Qualified Environmental Professional as in defined in 6 NYCRR Part 375 and that this Interim Remedial Measure Work (IRM) / Limited Remedial Action (LRA) Work Plan was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

_____

Donald L. Pomeroy
C.P.G. No. 0868, CT L.E.P. No. 652

12/16/2025
_____

Date

I, Michele Patterson-Wittman, certify that I am currently a Qualified Environmental Professional as in defined in 6 NYCRR Part 375 and that this Interim Remedial Measure Work (IRM) / Limited Remedial Action (LRA) Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

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Michele Patterson-Wittman
P.G. No. 1776

12/16/2025
_____

Date

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1.0 PROJECT BACKGROUND

Terracon Consultants – NY, Inc. (Terracon) has prepared this Interim Remedial Measure (IRM) Work Plan for Limited Remedial Investigation (LRI)/Limited Remedial Action (LRA) Work Plan (IRM-Gas Main WP) for the proposed Natural Gas Main Extension Project (Gas Main Project) located within the Westchester County Airport (the "Airport" or "Site"). The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP) as Site No. C360174, which is administered by New York State Department of Environmental Conservation (NYSDEC or Department). Therefore, this IRM WP will be implemented in accordance with the Interim Site Management Plan (ISMP) for the Site, which is approved by the New York State Department of Environment Conservation (NYSDEC).

The Site is located at 240 Airport Road in West Harrison, Westchester County, New York (**Exhibit 1 in Appendix A**). The Project work areas identified for construction activities are located in the northeast end of the Airport and are shown on **Exhibit 2**.

The Gas Main Extension Project generally involves excavation of approximately 2,500 linear-feet (lf) of trenching for the placement of 4-inch and 8-inch diameter natural gas lines to extend natural gas service to the northern portion of the Airport. The extension is located along Airport Road in the northeast end of the Airport with laterals extending to Buildings 26, 4, 15, 1, and 10 and connecting to Building 2 (**Exhibit 2**). Excavations for the gas lines will generally extend to a depth of 5 feet below ground surface (bgs). Demolition of existing aboveground heating oil storage tanks (ASTs) and the removal of one heating oil underground storage tank (UST) and appurtenant features will also be performed during this project.

The design engineer of record for this project, OLA Consulting Engineers, PC (OLA), has estimated that approximately 3,000-cubic yards (cy) of excess soil will be generated as a result of the gas main excavations and placement of new piping. The Plans for the Project prepared by OLA providing further detail on the construction scope of work are included in **Appendix B**.

The purpose of this Work Plan is to evaluate soil and groundwater within the Project limits that will be excavated, managed and/or potentially beneficially reused on other portions of the Airport through an LRI. The Work Plan will focus on soil management strategies for these excavated soils during construction activities, which may include onsite reuse and/or disposal at a licensed solid waste facility, if warranted based on the analytical results and guidance from NYSDEC and the Airport.

1.1 Site Description and History

The Site is located in a mixed-use area of commercial and residential parcels. The location of the Site is illustrated on the United States Geological Survey (USGS) 7.5-minute Quadrangle (Glenville NY Topographic Quadrangle, 1967, Photo revised 1981) Map provided as **Exhibit 1**. The Site is approximately 700 acres, with about a third of the Airport located in the Kenisco watershed, as shown on **Exhibit 2**.

The topography at the Airport is generally flat and slopes gently to the south. Rye Lake is part of the Kensico Reservoir that contributes to the drinking supply for New York City. The west adjoining area is comprised primarily of woodlands and includes Route 120 and Interstate 684 beyond which is Rye Lake.

The New York Air National Guard (NYANG) was a tenant at the Airport from 1947 to 1983. As part of its operations, the NYANG performed aircraft firefighting training operations on a regular basis. These firefighting exercises and training activities were performed at a "Burn Pit" that was located near the NYANG's former hangar (hereafter referred to as the "NYANG Burn Pit") on County property adjacent to the NYANG's leasehold.

The NYANG conducted these exercises from as early as 1968 until 1983 when they vacated the Airport. The NYANG, as part of its firefighting exercises, used Aqueous Film-Forming Foam (AFFF), which historically contained compounds referred to as per- and polyfluoroalkyl substances (PFAS). The historical application of AFFF in the NYANG Burn Pit area has resulted in PFAS impacts to soil and groundwater on the Site.

1.2 Conditions Warranting Remedial Investigation

The project work zone lies within the boundaries of the Site which is currently in the NYS BCP as Site No. C360174, and a site-wide Remedial Investigation (RI) has not yet been completed for the Site.

1.2.1 Previous Investigations in Support of the Gas Main Extension Project Design

OLA engaged AMC Engineering PLLC (AMC) to complete a subsurface investigation in support of OLA's project design submittals. AMC's work included collecting soil and groundwater samples to determine if the project work zone was impacted from past or present site operations. The AMC work was completed in November 2024 and included the advancement of soil borings and soil/groundwater sample collection and chemical analyses, and was reported in the AMC report titled *DATA INTERPRETATION AND SUMMARY, REPORT #1*, dated January 2025. The AMR report is included as an appendix

of the OLA Technical Specifications for the project, and is included as a separate attachment to this IRM WP as **Appendix C**.

1.2.1.1 Summary of Soil Conditions in Project Work Zone

According to the AMC report, one soil sample was collected from each of six (6) soil boring locations, for a total of six soil samples. Samples were collected by AMC and analyzed for the following compounds:

- Volatile Organic Compounds (EPA Method 8260).
- Semi-Volatile Organic Compounds (EPA Method 8270).
- TAL Metals (EPA Method 6010).
- PCBs (EPA Method 8082).
- Pesticides (EPA Method 8081); and
- SPLP PFAS (EPA Method 1312/1633)

The 'Full-suite' analyses provided baseline testing results for the parameters analyzed indicating that materials sampled in the planned project work zone would appear to generally meet Commercial Use Soil Cleanup Objectives (SCO). However, soil samples selected for chemical testing did not uniformly assess the 0-5' depth interval that will be disturbed during the project excavations. Further, the PFAS analytical method selected was the Synthetic Precipitation Leaching Procedure (SPLP), results of which are not directly correlative to NYSDEC SCO for the site.

1.2.1.2 Summary of Groundwater Conditions in Project Work Zone

Depths to groundwater as reported by AMC during its drilling and temporary well sampling reportedly ranged from 6.82 feet to 10.41 feet bgs. This reported water table depth would appear to be below excavations for the gas main extension trenching. However, these reported depths to water are not consistent with static water table depths (less than 3 feet bgs) observed during ongoing investigations at the site.

Groundwater samples obtained from temporary wells installed/sampled by AMC evaluated PFAS in groundwater in the planned project work zone with sample analyses via EPA Method 1633A. PFAS were detected in each of the groundwater samples obtained from temporary wells within the project work zone. The highest concentrations of total PFAS were reported in groundwater samples collected from AMC borings/temporary wells B-11 and B-12 located along the planned trenching alignment between Building 1 and Building 2.

The complete AMC report is included in **Appendix C**.

1.3 LRI/LRA Work Plan Objectives

This IRM Gas Main Extension WP proposes evaluating environmental quality in soil and groundwater that will be encountered by the Project contractors during earthwork activities. This Work Plan is intended to:

- Provide environmental data within the Project Work Zone that is generally unassessed relative to the nature and extent of PFAS contamination at the Airport.
- Establish soil and groundwater management protocols for materials encountered during the Project, for compliance with and in the context of the approved Interim Site Management Plan (ISMP) the site.

1.4 Regulatory Criteria

NYSDEC has applicable standards, criteria and guidance (SCG) values that will be used for this project. These goals are applicable when considering remedial alternatives. For purposes of the LRI/LRA, the following SCGs will be utilized:

- 6 NYCRR Part 375-3 Brownfield Cleanup Program dated December 14, 2006.
- NYSDEC Policy CP-51/Soil Cleanup Guidance dated October 21, 2010.
- NYSDEC "DER-10 Technical guidance for Investigation and Remediation", dated May 2010 (Final DER-10).

Soil samples will be collected in general accordance with NYSDEC and United States Environmental Protection Agency (USEPA or EPA) sample collection and handling methodologies. Samples selected for laboratory analysis will be submitted to a NYS Department of Health (DOH) Environmental Laboratory Accreditation Program (ELAP) Contract Laboratory Protocol (CLP) certified laboratory.

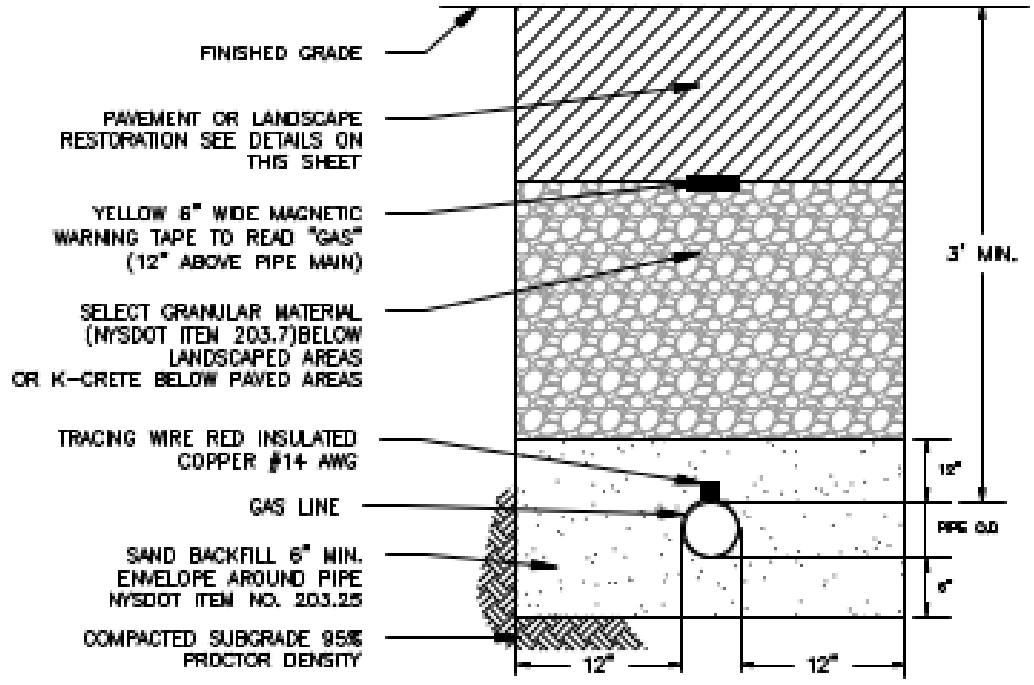
In addition, soil samples for PFAS analysis will be collected in general accordance with NYSDEC's guidance document titled *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl substances (PFAS)* dated April 2023.

2.0 OVERVIEW OF PLANNED CONSTRUCTION

Based on Terracon's review of the Project Plans in **Appendix B**, we understand that the approximate volume of soil to be excavated during the Gas Main Extension project will be approximately 3,000 cubic yards (CY). Materials management will proceed as follows:

- For trenching in road shoulders and asphalt-paved areas, existing pavement and subbase (estimated to extend to approximately 1-feet in depth bgs) will be removed and staged/stockpiled separately for recycling.
- Soils below pavement/subbase and in grass/landscaped areas will be excavated to a depth of up to approximately 5-feet bgs and staged in designated soil staging areas.
- Dewatering, if groundwater is encountered, may be necessary for the placement of backfill materials and the gas main.

A section detail/cross-section of the gas main trenching is provided below:



Please refer to the Project Plans in **Appendix B** for further reference.

In accordance with the approved ISMP, the proposed construction activities must be conducted in accordance with the best practices and management plans outlined in the ISMP, including the Excavation Work Plan. The Excavation Work Plan is included in Appendix D of this IRM WP for reference.

3.0 LIMITED REMEDIAL INVESTIGATION SCOPE OF WORK

The following sections provide Terracon's approach to investigate the environmental quality of the soils located within the Gas Main Project area .

3.1 LRI Field Investigation Activities

Terracon and our drilling subcontractors will contact Dig Safely New York, a minimum of three business days prior to the commencement of the field work. In addition, Terracon will complete a private utility to mark/clear identifiable utilities in the Work Areas, and to clear the proposed drilling locations. Terracon's proposed field procedures are summarized below:

- Discrete soil samples will be collected utilizing a hollow-stem auger (HAS) drilling rig. Soil borings will be advanced to a minimum depth of 5-feet bgs. Select borings will be advanced to depths of between 10-15 bgs for the purpose of installing 2-inch diameter PVC monitoring wells. Proposed soil boring and well locations are presented on **Exhibit 3**.
- Soil samples will be field screened with a calibrated organic vapor meter (OVM) equipped with a photoionization detector (PID).
- OVM results and soil descriptions will be recorded in the field. Soil boring logs will be included in the technical report, or presented during our Monthly Status Reports at NYSDEC's request.
- Samples will be collected in accordance with the approved ISMP for the Site.
- Groundwater monitoring wells will be completed with 0.010-inch machine-slotted PVC, with the annular space backfilled with graded well gravel, a bentonite seal above the gravel pack, and furnished with either flush-mount or stick-up protective well covers depending on location.

As included in the approved ISMP, when sampling for PFAS, sampling equipment components and sample containers should not come in contact with aluminum foil, low density polyethylene (LDPE), glass or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer. Standard two-step decontamination using detergent and clean water rinse will be performed for equipment that does come in contact with perfluorinated chemical (PFC) materials. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFC materials will be avoided. Many food and drink packaging materials and "plumbers thread seal tape" contain PFCs.

Clothing worn by sampling personnel must have been laundered multiple times. The sampler must wear nitrile gloves while filling and sealing the sample bottles.

Pre-cleaned sample bottles, coolers, ice, sample labels and a chain-of-custody form will be provided by the laboratory.

3.2 LRI Sampling and Analysis Plan

Based on the construction details for the Project, OLA/The County and HPN are anticipating that soil excavated during this project will not be able to be reused as backfill within project excavations. The generated excess material will be sampled *ex-situ* during construction activities in support of potential on/off-site Beneficial Use Determinations (BUD) or disposal at a licensed solid waste facility, as further described in Section 4.0 Limited Remedial Action. The sampling program below describes soil sampling and analytical testing planned during this LRI.

3.2.1 LRI Assessment – UST Removal

One 3,000-gallon heating oil UST located at the immediate south end of Building 10 will be removed during this Project. One soil/monitoring well boring TMW-6 will be installed in proximity to this UST to characterize soil/groundwater conditions in the UST vicinity.

3.2.1.1 UST Removal - Soil Assessment

The UST lies below asphalt paving, therefore soil sampling for PFAS from this boring will be as follows:

- Depth intervals beneath pavement and subbase estimated to be from 1-3 feet bgs, and then 3-5 feet; 5-7 feet, and 10-12 feet bgs. Samples will be analyzed for Total PFAS via EPA Method 1633A.

Full suite analysis for two (2) soil samples from this boring from depth intervals of 1-5 and 5-10 feet bgs will be performed as follows:

- Target Compound List (TCL) VOCs by EPA Method 8260; samples for VOC analyses will be (a) from the 1-3 depth interval (known to be intersecting the static water table surface in the area of the UST), and (b) from the next depth interval displaying the highest PID reading.

The remaining full suite analyses will be composite soil samples from the 1-5 and 5-10 feet bgs depth intervals as follows:

- TCL SVOCs by EPA Method 8270.

- Target Analyte List (TAL) Metals (arsenic, barium, beryllium, cadmium, hexavalent and trivalent chromium, copper, total cyanide, lead, manganese, total mercury, nickel, selenium, silver and zinc) by EPA Methods 6000/7000.
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.
- Pesticides by EPA Method 8081.
- Herbicides by EPA Method 8151.

3.2.1.2 UST Removal - Groundwater Assessment

Approximately one week following drilling and well installation, static water levels will be measured and groundwater will be sampled using low-flow purge methods; sample analyses will be as follows:

- TCL VOCs by EPA Method 8260.
- TCL SVOCs and 1-4 dioxane by EPA Method 8270
- Total PFAS via EPA Method 1633A.

3.2.2 LRI Assessment – Gas Main Extension Trenching

Five soil/monitoring well borings (TMW-1 through 5) will be installed to further characterize soil/groundwater conditions along the majority of the gas main extension alignment.

The northern extent of the Gas Main Extension Project will provide natural gas service to the future Snow Removal Equipment (SRE) Building being added to existing Building 10. Proposed pre-construction site characterization for the SRE Building construction have been submitted to NYSDEC pursuant to the *IRM for LRI/LRA for the New Snow Equipment Storage Building* dated October 6, 2025 prepared by Terracon. Terracon will rely on soil/groundwater results from the 7 soil borings and 4 monitoring wells proposed for installation/sampling in the SRE Building LRI/LRA for evaluation and incorporation into the IRM LRI/LRA for the Gas Main Extension project.

3.2.2.1 Gas Main Extension Trenching - Soil Assessment

Trenching for the gas main will occur beneath grass/landscape areas as well as beneath areas currently beneath asphalt-paved surfaces.

Soil sample collection for PFAS in grass/landscaped areas will be as follows:

- Soil samples will be collected for PFAS analysis from (a) existing ground surface to approximately 2 inches; (b) 2 inches to 12 inches bgs; (c) 12

inches to 24 inches bgs; and from the 3-5 and 5-7 feet bgs depth intervals. Sample analyses will be for Total PFAS via EPA Method 1633A.

Soil sample collection for PFAS beneath asphalt-paved or hardscape areas will be as follows:

- Soil samples will be collected for PFAS analysis from depth intervals of 1-3 feet; 3-5 feet; and 5-7 feet bgs. Samples will be analyzed for Total PFAS via EPA Method 1633A.

3.2.2.2 Gas Main Extension Trenching - Groundwater Assessment

Approximately one week following drilling and well installation, static water levels will be measured and groundwater will be sampled using low-flow purge methods; sample analyses will be as follows:

- TCL VOCs by EPA Method 8260.
- TCL SVOCs and 1-4 dioxane by EPA Method 8270.
- Total PFAS via EPA Method 1633A.

3.3 LRI Field-Specific Quality Assurance/Quality Control Sampling

Field-specific quality assurance/quality control (QA/QC) samples will be collected and analyzed to support third-party data usability and the assessment effort. Site-specific QA/QC samples included in this IRM Work Plan are as follows for soil and groundwater sampling during this LRI:

- Trip Blanks – One sample per day for VOCs and PFAS.
- Blind Duplicate – One sample per 20 discrete and/or composite soil samples, as applicable.
- Matrix spike/matrix spike duplicate (MS/MSD) – One sample per day.
- Rinseate Blank for VOC, SVOC and PFAS – One sample per day.

3.4 Investigation-Derived Waste Management

Excess soil cuttings that cannot be replaced into the borehole will be containerized in 55-gallon drums. Based on analytical testing results, the containerized excess soil may be utilized within the Airport, or disposed offsite.

Purge water from well development and groundwater sample collection will be temporarily contained in 55-gallon drums and pending receipt of groundwater analytical

testing results, will be processed through the operating IRM Treatment System at Outfall OF-7.

3.5 Reporting to NYSDEC

Upon receipt of testing results from LRI activities described above and prior to the commencement of site-related construction associated with the project and Limited Remedial Action (LRA) described below in Section 4.0, Terracon will communicate with NYSDEC and the Airport on the desired project schedule upon approval of the Workplan herein, including providing the results of this LRI/LRA efforts in our monthly updates to NYSDEC.

Terracon will compare the soil analytical results to the SCOs (and guidance values for PFAS) to evaluate the appropriate soil management options for the Gas Main Project soils.

Terracon will discuss the soil analytical results with the Airport and NYSDEC to determine the appropriate soil management options for the Project that are in compliance with the Site's BCP requirements. As noted above, approval for on-site reuse if applicable, will be requested from the NYSDEC Project Manager.

As discussed in Section 4.3, at the conclusion of the project including final re-use and/or disposal of generated soils, Terracon will prepare an IRM Completion Report summarizing the field activities, analytical laboratory results and soil management documentation.

3.6 Health and Safety / Community Air Monitoring Plan (CAMP)

Terracon is committed to the safety of all its employees. As such, and in accordance with our *Incident and Injury Free (IIF)*® safety goals, Terracon will conduct fieldwork under a site-specific HASP, which is included in the approved ISMP.

To safeguard and protect workers and the community, air monitoring as described in the CAMP in the approved ISMP will be performed during the ground-intrusive activities described in **Section 3** of this IRM Work Plan; during site-related construction associated with the project and LRA described below in Section 4.0; and during subsequent soil loading/hauling activities for either on-site reuse or off-site beneficial reuse/disposal.

4.0 LIMITED REMEDIAL ACTION

As discussed previously, based on the construction details for the Project, OLA/The County and HPN are anticipating that soil excavated during this project will not be able

to be reused as backfill within project excavations. The generated excess material will be sampled *ex-situ* during construction activities in support of potential on/off-site Beneficial Use Determinations (BUD) or disposal at a licensed solid waste facility.

4.1 Planned Soil Management

The Project Contractor (or their representative) will stockpile and sample excavated soils. Materials excavated from the UST removal will be maintained separately from soils generated during the gas main extension trenching. Soil characterization/profile samples will be obtained for full suite analyses below as per DER-10:

- Target Compound List (TCL) VOCs by EPA Method 8260.
- TCL SVOCs by EPA Method 8270.
- Target Analyte List (TAL) Metals (arsenic, barium, beryllium, cadmium, hexavalent and trivalent chromium, copper, total cyanide, lead, manganese, total mercury, nickel, selenium, silver and zinc) by EPA Methods 6000/7000.
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.
- Pesticides by EPA Method 8081.
- Herbicides by EPA Method 8151.
- PFAS by EPA Method 1633A.

VOC samples will be discreet/grab while the remainder of the analyses above will be from a composite soil sample generated from no fewer than 5 sample aliquots to be representative of the material being profiled.

Sample collection frequency will be one soil sample for the 1st 500 cy of stockpiled soil; one soil sample for the 2nd 500 cy; and one soil sample for each subsequent 1,000 cy.

Soils that are identified as not suitable for Gas Main Project or Site reuse by NYSDEC will be temporarily staged within the Gas Main Project limits (or alternate location approved by NYSDEC) pending disposal at a licensed solid waste facility.

4.2 Planned Groundwater Management

The Project Contractor shall control groundwater as needed, to maintain dry excavations for the placement of project-related backfill and piping. Construction dewatering may include discharge to a portable/mobile tank at the excavation site(s), and subsequent transfer to a project treatment location. The Contractor will process pumped groundwater through a treatment system suitably designed and sized for the anticipated

conditions, and discharge to the County POTW under required permitting with the County, NYSDEC and NYCDEC.

Alternatively, the Contractor may direct groundwater into a frac-holding tank for offsite transportation and disposal (T&D).

4.3 LRA Sampling and Reporting

Terracon will observe and document the removal of the 3,000-gallon fuel oil UST. In-situ soil samples will be collected from the limits of the UST tankhold excavation for the following analyses:

- CP-51 List VOCs by EPA Method 8260.
- CP-51 List SVOCs by EPA Method 8270
- Total PFAS via EPA Method 1633A.

Results and observations from the UST removal will be summarized into a UST Closure Report.

Terracon will observe and document the gas main extension trenching. In-situ soil samples will be collected from the bottom of excavated trenches prior to the placement of backfill/gas main piping/equipment, at a spacing of 1 sample per 200 linear feet of trenching, for the following analyses:

- Total PFAS via EPA Method 1633A.

At the conclusion of the project including final re-use and/or disposal of generated soils, Terracon will prepare an IRM Completion Report summarizing the field activities, analytical laboratory results and soil management documentation.

5.0 QUALITY ASSURANCE PROJECT PLAN (QAPP)

Pursuant to NYSDEC guidance and the Site's approved ISMP, the Work Plan includes quality assurance procedures to be followed for sampling and analysis. QA/QC procedures required by the NYSDEC for the Site are documented in the Quality Assurance Project Plan (QAPP). The QAPP is included in the approved ISMP.

6.0 SCHEDULE

Terracon and its subcontractor team are prepared to mobilize to the Site upon receipt of NYSDEC approval of this IRM Work Plan. The anticipated schedule is presented below.

Date	IRM Work Plan Task
Mid-December 2025	Submit IRM Work Plan to NYSDEC
Mid-Late January 2026	IRM Work Plan approval by NYSDEC
Early February 2026	Mobilize for soil/groundwater sample collection
March 2026	Receive analytical results and interface with NYSDEC
Spring – Summer 2026	Completion of Project-related construction
Fall 2026	IRM Completion Report

7.0 STANDARD OF CARE

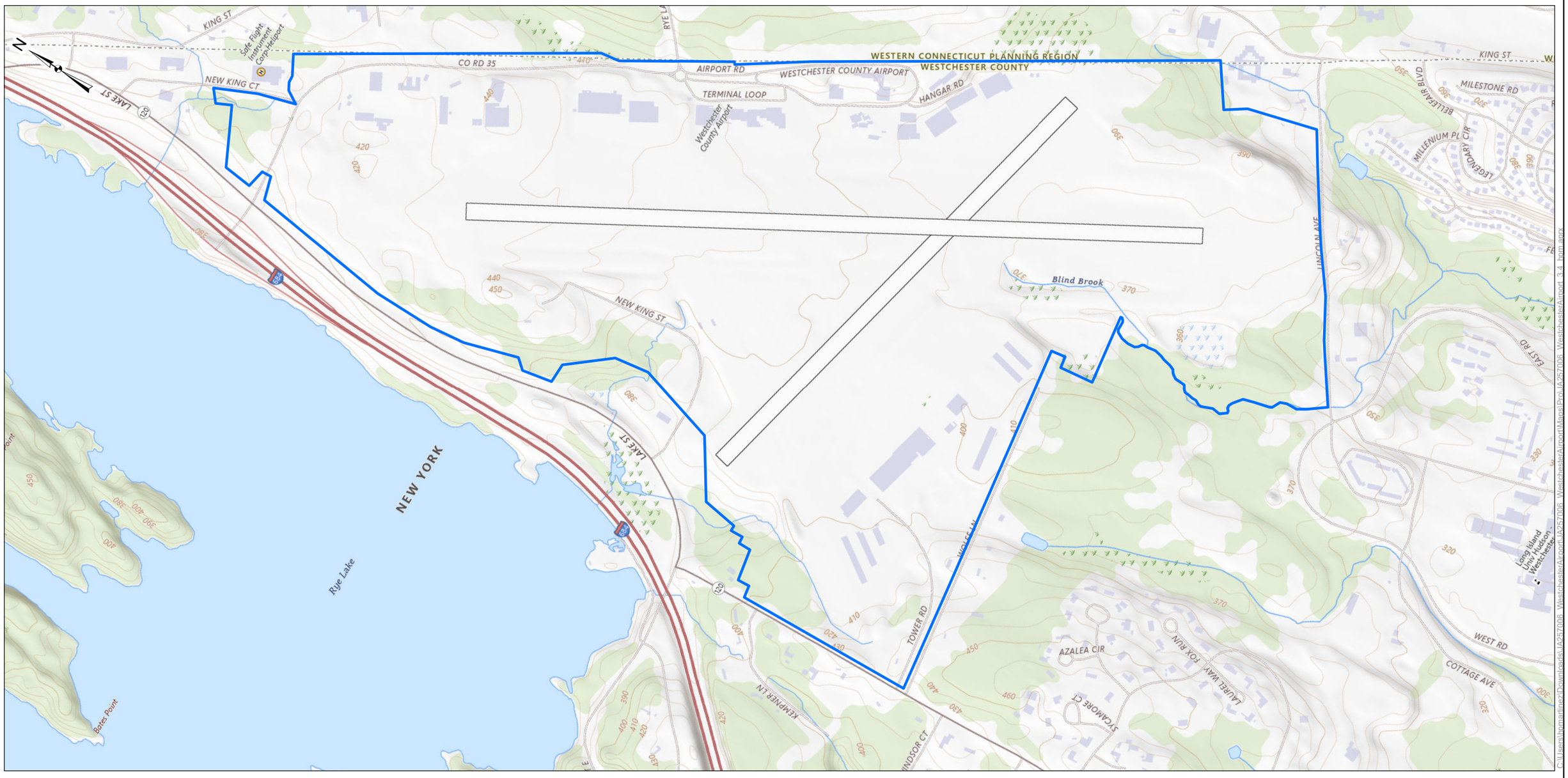
Terracon's services will be performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations from the work. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

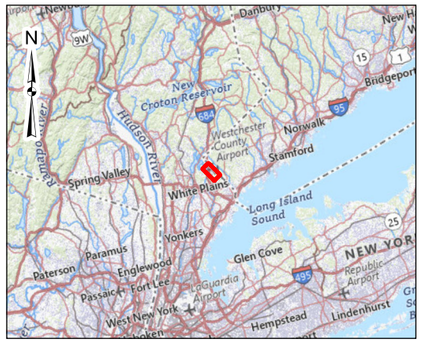
APPENDIX A Exhibits

Exhibit 1: Topographic Map

Exhibit 2: Site Diagram

Exhibit 3: Gas Main Extension Alignment Plan





Legend

BCP Site Boundary

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub
New York DEC - Remediation Site Boundaries

Feet
0 500 1,000 2,000

Project No.:	JA257006
Date:	Dec 2025
Drawn By:	HPM
Reviewed By:	DP

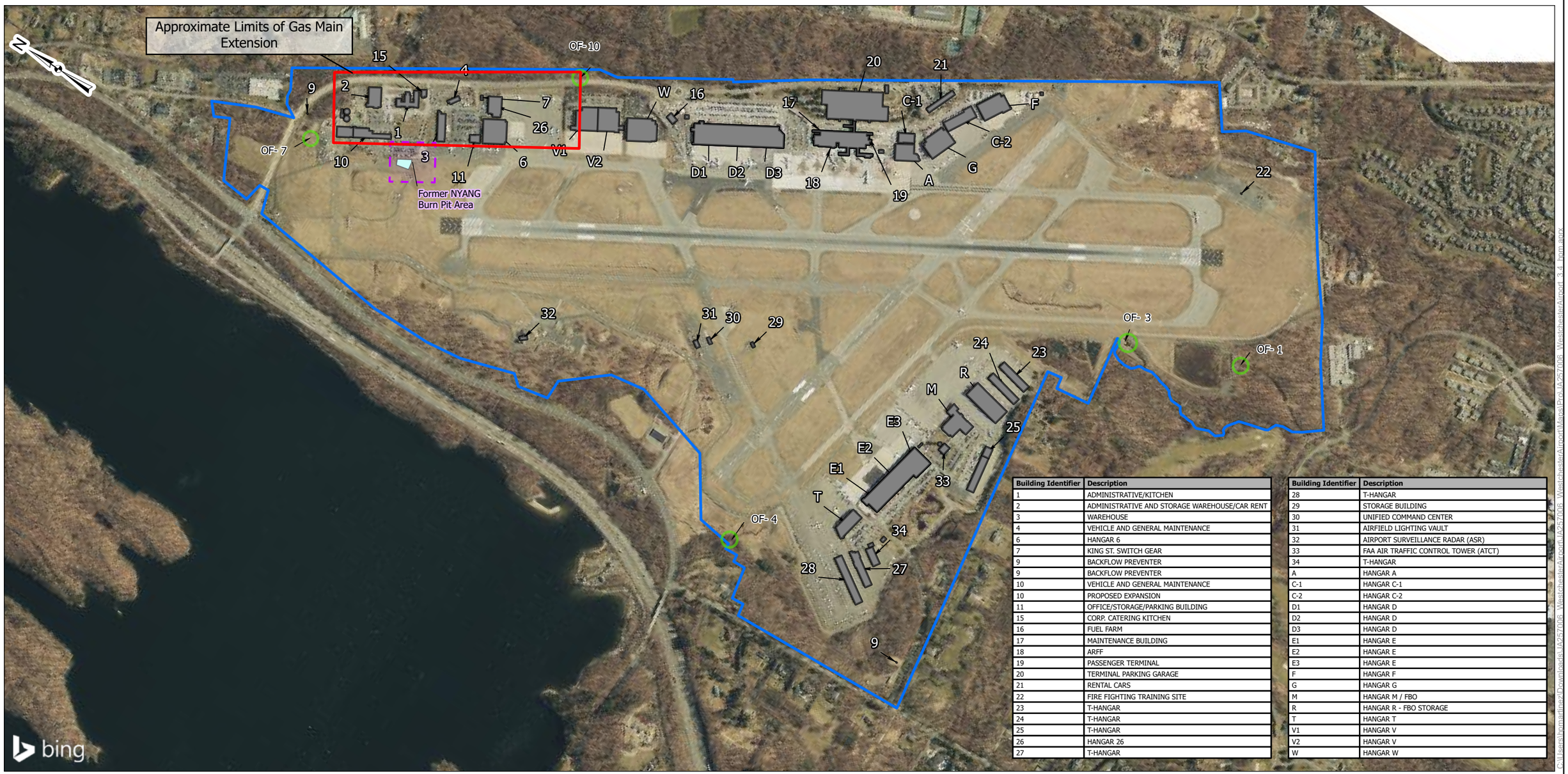
terracon
70 Vantage Point Dr, Ste 1
Rochester, NY
PH. 585-247-3471 terracon.com

Topographic Map

Westchester County Airport
West Harrison, New York

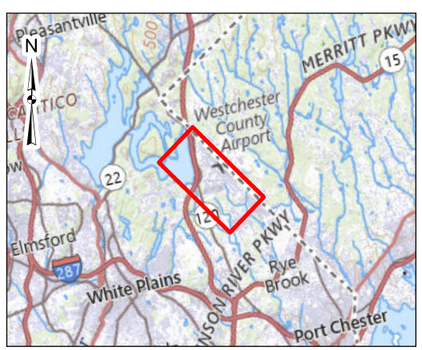
Exhibit

1



Building Identifier	Description
1	ADMINISTRATIVE/KITCHEN
2	ADMINISTRATIVE AND STORAGE WAREHOUSE/CAR RENT
3	WAREHOUSE
4	VEHICLE AND GENERAL MAINTENANCE
6	HANGAR 6
7	KING ST. SWITCH GEAR
9	BACKFLOW PREVENTER
9	BACKFLOW PREVENTER
10	VEHICLE AND GENERAL MAINTENANCE
10	PROPOSED EXPANSION
11	OFFICE/STORAGE/PARKING BUILDING
15	CORP. CATERING KITCHEN
16	FUEL FARM
17	MAINTENANCE BUILDING
18	ARFF
19	PASSENGER TERMINAL
20	TERMINAL PARKING GARAGE
21	RENTAL CARS
22	FIRE FIGHTING TRAINING SITE
23	T-HANGAR
24	T-HANGAR
25	T-HANGAR
26	HANGAR 26
27	T-HANGAR

Building Identifier	Description
28	T-HANGAR
29	STORAGE BUILDING
30	UNIFIED COMMAND CENTER
31	AIRFIELD LIGHTING VAULT
32	AIRPORT SURVEILLANCE RADAR (ASR)
33	FAA AIR TRAFFIC CONTROL TOWER (ATCT)
34	T-HANGAR
A	HANGAR A
C-1	HANGAR C-1
C-2	HANGAR C-2
D1	HANGAR D
D2	HANGAR D
D3	HANGAR D
E1	HANGAR E
E2	HANGAR E
E3	HANGAR E
F	HANGAR F
G	HANGAR G
M	HANGAR M / FBO
R	HANGAR R - FBO STORAGE
T	HANGAR T
V1	HANGAR V
V2	HANGAR V
W	HANGAR W



Legend

- BCP Site Boundary
- SPDES Outfall
- Buildings
- Approximate Work Area Limits
- Burn Pit Boundary (approx.)
- Former NYANG Burn Pit Area

DATA SOURCES:
Westchester County GeoHub
NYSDEC - BCP Site Boundary

Feet
0 500 1,000 2,000

Project No.:	JA257006
Date:	Dec 2025
Drawn By:	HPM
Reviewed By:	DP

terracon
70 Vantage Point Dr, Ste 1
Rochester, NY
PH. 585-247-3471 terracon.com

Site Diagram

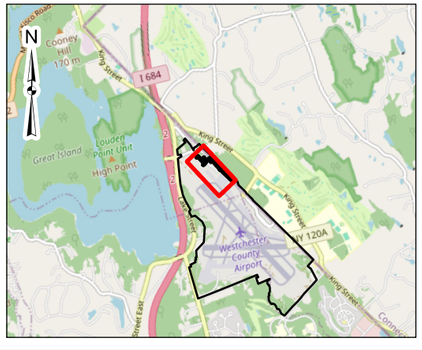
Westchester County Airport
West Harrison, New York

Exhibit

2

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- BCP Site Boundary
- Buildings
- Gas Line
- Disturbance Areas
- 3,000-gal Fuel Oil UST
- Burn Pit Boundary (approx.)
- SRE Expansion Area*

Gas Main Borings

- Proposed
- Abandoned**

NOTE:
*Shaded area of this Gas Main Extension Project will rely on soil/groundwater assessment being performed pursuant to the IRM for LRI/LRA for the New Snow Equipment Storage Building dated October 6, 2025 prepared by Terracon for the site.
**Previous Boring/Temporary Well Locations by AMC Engineering PLLC, November 2024

DATA SOURCES:
ESRI - Basemaps

Feet
0 250 500

Project No.:	JA257006
Date:	Dec 2025
Drawn By:	HPM
Reviewed By:	DLP

terracon
70 Vantage Point Dr, Ste 1
Rochester, NY
PH. 585-247-3471 terracon.com

Gas Main Extension Alignment Plan

Westchester County Airport
West Harrison, NY

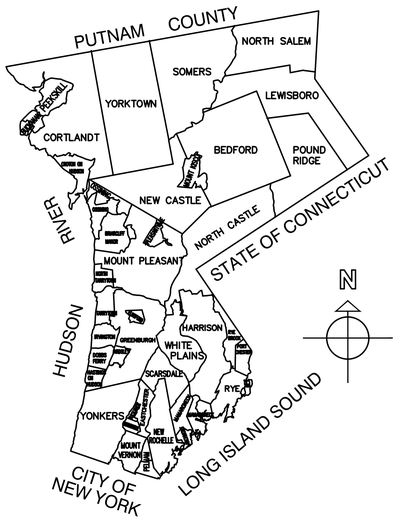
Exhibit

3

C:\Users\hmiller\Downloads\JA257006 Gas Main Extension\JA257006 Gas Main Extension.aprx

APPENDIX B

Contract No. 24-258 New Gas Main Installation
Plans dated April 14, 2025



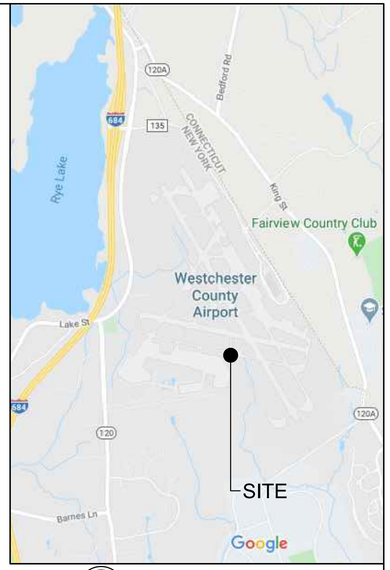
WESTCHESTER COUNTY

WESTCHESTER COUNTY

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT No. 24-528
NEW GAS MAIN INSTALLATION

WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND
VILLAGE OF RYE BROOK, NEW YORK



NORTH

LOCATION MAP
SCALE: N.T.S.

DRAWING LIST						REVISIONS	
SHEET NO.				SHEET TITLE	DPW FILE NO:		
T-01	1	OF	22	TITLE SHEET	48-00-T-141-0		
CIVIL							
G-01	2	OF	22	CIVIL LEGEND, ABBREVIATIONS AND NOTES	48-00-C-142-0		
G-02	3	OF	22	CIVIL NOTES	48-00-C-143-0		
C-01	4	OF	22	CIVIL CONSTRUCTION ACCESS AND STAGING PLAN	48-00-C-144-0		
C-02	5	OF	22	CIVIL KEY PLAN	48-00-C-145-0		
C-03	6	OF	22	CIVIL PLAN AND PROFILE NO. 1	48-00-C-146-0		
C-04	7	OF	22	CIVIL PLAN AND PROFILE NO. 2	48-00-C-147-0		
C-05	8	OF	22	CIVIL PLAN AND PROFILE NO. 3	48-00-C-148-0		
C-06	9	OF	22	CIVIL EROSION AND SEDIMENT CONTROL PLAN NO. 1	48-00-C-149-0		
C-07	10	OF	22	CIVIL EROSION AND SEDIMENT CONTROL PLAN NO. 3	48-00-C-150-0		
C-08	11	OF	22	CIVIL EROSION AND SEDIMENT CONTROL PLAN NO. 3	48-00-C-151-0		
C-09	12	OF	22	CIVIL SITE DETAILS NO. 1	48-00-C-152-0		
C-10	13	OF	22	CIVIL SITE DETAILS NO. 2	48-00-C-153-0		
C-11	14	OF	22	CIVIL EROSION AND SEDIMENT CONTROL DETAILS	48-00-C-154-0		
C-12	15	OF	22	CIVIL MAINTENANCE AND PROTECTION OF TRAFFIC PLAN	48-00-C-155-0		
PLUMBING							
P-01	16	OF	22	PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES	48-00-P-156-0		
P-02	17	OF	22	PLUMBING SITE PLAN	48-00-P-157-0		
P-03	18	OF	22	PLUMBING FUEL OIL TANK DEMOLITION PLAN	48-00-P-158-0		
P-04	19	OF	22	PLUMBING DETAILS	48-00-P-159-0		
P-05	20	OF	22	PLUMBING DETAILS	48-00-P-160-0		
P-06	21	OF	22	PLUMBING DETAILS	48-00-P-161-0		
P-07	22	OF	22	PLUMBING BOILER ROOM PLANS & DETAILS	48-00-P-162-0		

SEAL

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D&B ENGINEERS AND ARCHITECTS
WHITE PLAINS, NEW YORK 10604
(914) 467-5300

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

IN CHARGE OF RG
CHECKED BY CED
MADE BY JC

RECOMMENDED FOR CONSTRUCTION DATE
JEFFERY A. DEAN, P.E.
ASSOCIATE ENGINEER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

RECOMMENDED FOR CONSTRUCTION DATE
GAYLE M. KATZMAN, P.E.
FIRST DEPUTY COMMISSIONER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

APPROVED FOR CONSTRUCTION DATE
HUGH J. GREECHAN, P.E.
COMMISSIONER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK

TITLE SHEET

CONTRACT NUMBER 24–528
SHEET NUMBER T–01
SHEET NO. 1 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48–00–T–141–0
REV. NO. 0

GENERAL NOTES:

1. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO REVISIONS AS PER ACTUAL FIELD CONDITIONS.

2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PERMIT REQUIREMENTS ANY STATE, CITY, COUNTY OR TOWN AGENCY HAVING JURISDICTION. REFER TO THE CONTRACT SPECIFICATIONS FOR PERMIT REQUIREMENTS.

3. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MAINTAIN WATER AND GAS SERVICE TO THE AIRPORT AND PROTECT THE EXISTING WATER AND GAS MAINS AND SERVICES. SHUTDOWNS OF THE EXISTING GAS AND WATER MAINS ARE NOT PERMITTED WITHOUT PERMISSION FROM THE WESTCHESTER COUNTY AIRPORT AND THE ENGINEER.

4. ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

5. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PRIVATE UTILITY MARKOUTS FOR ALL UTILITIES IN THE WORK AREAS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED UTILITY SUB-CONTRACTOR FOR APPROVAL.

6. THE CONTRACTOR SHALL OBTAIN AND HAVE ON THE JOB SITE, AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE STATE, COUNTY, TOWN/VILLAGE, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.

7. THE CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FROM THE WCDOH AND THE NYSDEC FOR THE REMOVAL OF THE ABOVE GROUND AND BELOW GROUND FUEL STORAGE TANKS. SEPARATE PERMITS ARE REQUIRED FOR EACH FUEL STORAGE TANK.

8. CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS CONSTRUCTION MATERIALS TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS RESULTING FROM THIS CONTRACT.

9. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND ENGINEER TO MINIMIZE INTERRUPTIONS TO NORMAL AIRPORT OPERATIONS.

10. CONTRACTOR SHALL SUBMIT DETAILED WORK PLAN INCLUDING SEQUENCE OF OPERATIONS PRIOR TO COMMENCING WORK AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER.

11. THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE CONVENIENT ACCESS WITH SAFE AND PROPER FACILITIES FOR THE INSPECTION OF ALL PARTS OF THE WORK. NO WORK, EXCEPT SUCH SHOP WORK AS MAY BE SO PERMITTED, SHALL BE DONE EXCEPT WITH THE CONSENT OF THE OWNER OR A REPRESENTATIVE THEREOF.

12. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION. IN ADDITION, IF WORK SHOULD BE STOPPED AND RESTARTED FOR ANY REASON, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE.

13. ITEMS SUSTAINING DAMAGE DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION AND APPROVAL OF THE OWNER AT THE CONTRACTORS EXPENSE. ANY DAMAGE TO PAVEMENT OR GRASS AREAS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

14. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRESERVE THE MATERIAL BELOW AND BEYOND THE LINES OF ALL EXCAVATION IN THE SOUNDEST POSSIBLE CONDITION. ANY DAMAGE TO THE WORK DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF AND BY THE CONTRACTOR.

15. NO MATERIALS OF ANY KIND SHALL BE USED FOR THE WORK UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER; ALL MATERIALS REJECTED SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE AND SHALL NOT BE OFFERED FOR INSPECTION AGAIN.

16. ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TIME TO BE DEFECTIVE SHALL BE REMEDIED AT ONCE, REGARDLESS OF PREVIOUS INSPECTION. THE INSPECTION AND OBSERVATION OF WORK BY THE ENGINEER IS INTENDED TO AID THE CONTRACTOR IN APPLYING LABOR AND MATERIAL TO AND IN ACCORDANCE WITH THE SPECIFICATION, BUT SUCH INSPECTION SHALL NOT RELEASE THE CONTRACTOR FROM ANY CONTRACT OBLIGATIONS.

17. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER SO AS TO POSE NO DANGER OR HAZARDS TO PERSONS OR PROPERTY. WHERE NECESSARY, TEMPORARY SHIELDS OR OTHER PROTECTIVE DEVICES MUST BE UTILIZED. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE OF ANY AND ALL SAFETY MEASURES. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND NEW YORK STATE DEPARTMENT OF LABOR REQUIREMENTS.

18. RESEED ALL AREAS WHERE WORK OCCURS AND/OR WHERE CONTRACTOR DAMAGES EXISTING GRASS. COMPLY WITH THE SPECIFICATIONS. STAGING AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SHALL BE SEEDED FOLLOWING COMPLETION OF ALL PHYSICAL WORK.

19. THE CONTRACTOR SHALL HAVE A COMPETENT REPRESENTATIVE PRESENT WHO SHALL RESPOND TO ANY QUESTIONS OR REQUESTS OF THE ENGINEER IN THE PROSECUTION AND COMPLETION OF THE WORK IN CONFORMITY WITH THIS CONTRACT, AND SHALL HAVE FULL AUTHORITY TO SUPPLY LABOR AND MATERIAL IMMEDIATELY. THE CONTRACTOR SHALL ALSO HAVE A COMPETENT REPRESENTATIVE AVAILABLE TO RECEIVE TELEPHONE MESSAGES AND PROVIDE A REASONABLE REPLY AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS.

20. NEITHER THE OWNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR TO COMPLETE THE WORK.

21. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE SAFETY OF THE GENERAL PUBLIC, SITE SAFETY AND THE SAFETY OF THE CONTRACTOR'S WORK FORCE.

22. BACKFILL AT ALL EXCAVATIONS SHALL BE PLACED IN 6" LIFTS AND SHALL ACHIEVE A COMPACTION NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY. UNDER THE TERMS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM FIELD TESTS BY AN APPROVED LABORATORY TO ASSURE THIS COMPACTION RATE AT VARYING DEPTHS. THE CONTRACTOR SHALL HAVE THE APPROVED LABORATORY REPRESENTATIVE ON SITE WHEN DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS FOR TESTING AND ANY DELAYS THAT RESULT FROM SUCH TESTING.

23. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES AND COVERS, VALVE COVERS, WATER VALVE BOXES, DRAINAGE INLETS, ETC. AS NECESSARY TO MEET THE SURFACE OF NEW PAVEMENT OR WALKWAY AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE RELATED UTILITY COMPANIES, IF APPLICABLE. WARPING OF THE PAVEMENT SURFACE TO MEET THESE ITEMS WILL NOT BE PERMITTED.

24. ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO BURIED AND OVERHEAD UTILITIES LOCATED ON PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO FACILITIES ON PUBLIC AND PRIVATE PROPERTY, SUCH AS, LANDSCAPING, DRIVEWAYS, CURBS, PAVEMENT, SIDEWALK, ETC.

26. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND VERIFY THE EXTENT OF ALL DEMOLITION WITH THE ENGINEER PRIOR TO PERFORMING THE WORK.

27. CONTRACTOR SHALL RESTORE STAGING AREAS BACK TO ITS ORIGINAL CONDITION INCLUDING GRADING, SEEDING, ETC. EXISTING TREES, UTILITIES, LIGHT POLES, STONE, SIDEWALK, CURB, ETC. SHALL BE PROTECTED AND REPLACED IF DAMAGED.

28. PROVIDE ELECTRICAL POWER, WATER, TELEPHONE, ETC. AS SPECIFIED FOR THE CONTRACTOR'S TRAILER WHICH SHALL BE LOCATED IN THE STAGING AREA.

29. ALL WORK TO BE IN COMPLIANCE WITH THE 2020 BUILDING CODES OF NEW YORK STATE.

30. CONTRACTOR SHALL MAINTAIN FIRE ACCESS TO ALL BUILDINGS DURING CONSTRUCTION.

SURVEY NOTES:

1. BASE MAP INFORMATION PREPARED BASED ON SURVEYS COMPLETED BY TERRY BEREGENDROFF COLLINS LAND SURVEYING, PLLC, ENTITLED " TOPOGRAPHIC SURVEY OF PROPERTY" PREPARED FOR D&B ARCHITECTS & ENGINEERS, P.C DATED JUNE 30, 2020 AND AUGUST 18, 2020 AND ADDITONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY.

2. HORIZONTAL DATUM NAD 83.

3. VERTICAL DATUM NAVD 88.

4. ALL ELEVATIONS AND CONNECTION POINTS TO EXISTING PIPES SHALL BE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ANY VARIATIONS FROM ELEVATIONS ON FIELD AND ELEVATIONS SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER.

5. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ACCURATE HORIZONTAL AND VERTICAL LOCATIONS OF THE WORK. THE CONTRACTOR SHALL CONFIRM THE ACCURACY OF ALL MONUMENTS AND BENCHMARKS ESTABLISHED FOR THE CONTRACTORS PURPOSE.

6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SURVEY CONTROL SUCH THAT WORK IS BEING COMPLETED AT THE PROPER LOCATION AND GRADE. THE WORK SHALL NOT VARY MORE THAN ½ INCH FROM THE LINES AND GRADES SHOWS ON THE PLANS.

7. UPON COMPLETION OF THE WATERMAIN CONSTRUCTION AND PRIOR TO TO USE, THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF AS-BUILT DRAWINGS PREPARED BY A NEW YORK STATE LICENSED LAND SURVEYOR, RETAINED AND PAID FOR BY THE CONTRACTOR, DEPICTING THE LOCATION OF THE NEW AND EXISTING WATER MAINS, HYDRANTS VALVES, MANHOLES, VAULTS, APPURTENANCES, ETC. AS-BUILT DRAWINGS SHALL ALSO INCLUDE THE LOCATION, SIZE AND DEPTH OF ALL STORM AND SANITARY SEWERS THAT CROSS THE NEW AND EXISTING WATERMAIN.

FAA RESTRICTIONS:

1. EXCAVATORS AND ALL OTHER EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 35-FEET.

HAZARDOUS MATERIAL NOTES:

1. PRIOR TO DEMOLITION AND/OR RENOVATION, THE CONTRACTOR SHALL PROPERLY REMOVE AND OFF-SITE DISPOSE ALL AFFECTED HAZARDOUS MATERIALS (E.G., BALLASTS AND FLUORESCENT LAMPS) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MANAGE ALL HAZARDOUS MATERIALS AFFECTED BY THE DEMOLITION ACTIVITIES IN ACCORDANCE WITH SPECIFICATION SECTION 02126 (HAZARDOUS MATERIALS REMOVAL). ALL WORK SHALL BE ACCOMPLISHED IN STRICT ADHERENCE TO THE CONTRACT DOCUMENTS AND SPECIFICATIONS, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WHENEVER THERE IS A CONFLICT OR OVERLAP OF THE ABOVE REFERENCES, THE MORE STRINGENT PROVISION SHALL APPLY. BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL EXAMINE THE TECHNICAL SPECIFICATIONS FOR COMPLIANCE WITH CODES AND REGULATIONS APPLICABLE TO THE WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ENGINEER.

2. IN THE EVENT THAT CONCEALED SUSPECT ASBESTOS-CONTAINING MATERIAL IS ENCOUNTERED DURING THE DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER.

3. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE INFORMATION PROVIDED HEREIN IS BASED ON AVAILABLE RECORDS AND LIMITED FIELD INSPECTIONS AND SHALL SERVE TO AID THE CONTRACTOR IN THE EVALUATION OF EXISTING STRUCTURE CONDITIONS, BUT SHALL NOT BE HELD TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE STRUCTURE AND ASSOCIATED SITE CONDITIONS TO BECOME FAMILIAR WITH AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS, AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.

4. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL APPLICABLE PERMITS FROM FEDERAL, STATE AND LOCAL REGULATORY AGENCIES NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL CONDITIONS AND NOTIFICATION REQUIREMENTS OF ISSUED PERMITS

5. THE CONTRACTOR IS ADVISED THAT THE WORK OF THE CONTRACT MAY IMPOSE CERTAIN OBLIGATIONS AND REQUIREMENTS MANDATED BY THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS FOUND AT TITLE 29 CFR 1926.62 (LEAD EXPOSURE IN CONSTRUCTION), RELATIVE TO THE POTENTIAL EXPOSURE TO LEAD BY ITS EMPLOYEES. THE CONTRACTOR ASSUMES ENTIRE RESPONSIBILITY AND LIABILITY FOR COMPLYING FULLY IN ALL RESPECTS WITH THESE REGULATIONS. ADDITIONALLY, IF THE SCOPE OF WORK REQUIRES THE CONTRACTOR TO SCRAPE LOOSE PAINT, THEN THE WASTE GENERATED SHALL BE ANALYZED FOR APPROPRIATE WASTE DISPOSAL.

SITE INFORMATION:

1. SITE ADDRESS:
   240 AIRPORT ROAD
   WHITE PLAINS, NEW YORK 10604

2. TAX LOT INFORMATION:
   SECTION 119.03
   BLOCK: 1
   LOT: 3

LEGEND AND ABBREVIATIONS

EXISTING SIGN	NEW SPOT ELEVATION
EXISTING UTILITY POLE	TYPICAL
EXISTING CONTOUR	DUCTILE IRON PIPE
EXISTING SPOT ELEVATION	LINEAR FOOT
EXISTING OVERHEAD WIRE	TREE
EXISTING ELECTRIC LINE	CHAIN LINK FENCE
EXISTING WATER LINE	GUIDE RAIL
EXISTING DRAIN LINE	
EXISTING TELECOM LINE	
EXISTING FIRE HYDRANT	
WATER VALVE	
NEW WATER LINE	
NEW TELECOM LINE	
NEW ELECTRIC LINE	
NEW HYDRANT	
NEW VALVE	
TEST PIT	
CAP	

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IN CHARGE OF JHM
CHECKED BY ALG
MADE BY JG

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
LEGEND, ABBREVIATIONS AND NOTES

CONTRACT NUMBER 24-528
SHEET NUMBER G-01
SHEET NO. 2 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-142-0
REV. NO.

SITE DEMOLITION NOTES:

1. ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY NO LATER THAN 48 HOURS PRIOR TO ANY EXCAVATION THAT MAY AFFECT THAT UTILITY. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE TO REMAIN.
2. BEFORE THE START OF DEMOLITION, THE CONTRACTOR SHALL COORDINATE THE PROPOSED EXCAVATION WORK WITH THE OWNERS OF THE UTILITIES INVOLVED.
3. FOR WESTCHESTER COUNTY OWNED UTILITIES, CONTRACTOR SHALL VERIFY DISCONNECT PRIOR TO DEMOLITION.
4. WHERE EXISTING CURB, GUTTER, SIDEWALK OR WALK IS TO BE REMOVED, IT SHALL BE SAW CUT OR REMOVED AT THE NEAREST JOINT.
5. ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
6. THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OPERATIONS WHICH INCLUDE SWEEPING OF THE ROADWAYS, REMOVAL OF DEBRIS (CUPS, PAPER BAGS, CANS, ETC.), REMOVAL OF EXCESS CONSTRUCTION MATERIALS, ALL TO THE SATISFACTION OF THE OWNER.
7. THE WORK COVERED BY THIS SECTION CONSISTS OF REMOVING AND DISPOSING OF ALL TREES, STUMPS, BUSHES, ROOTS, SHRUBS, VEGETATION, LOGS, RUBBISH, AND OTHER OBJECTIONABLE MATERIAL FROM THE SITE TO PERFORM THE WORK. REMOVE TREES AND SHRUBS IN SUCH A MANNER TO AVOID DAMAGE TO ADJACENT TREES AND SHRUBS AND THOSE DESIGNATED TO REMAIN. REMOVAL OF TREES AND SHRUBS SHALL INCLUDE THEIR RESPECTIVE STUMPS AND ROOTS. WORK UNDER THIS SECTION ALSO INCLUDES STRIPPING AND STOCKPILING OF TOPSOIL WHICH MAY BE REUSED.
8. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL RULES, REGULATIONS AND LAWS WHICH SHALL GOVERN THE HAULING AND DISPOSAL OF TREES, SHRUBS, STUMPS, ROOTS, RUBBISH, DEBRIS AND OTHER MATTER.
9. STREETS, ROADS, ADJACENT PROPERTY AND OTHER WORKS AND STRUCTURES SHALL BE PROTECTED THROUGHOUT THE ENTIRE PROJECT. CONTRACTOR SHALL RESTORE ANY FACILITIES DAMAGED BY CONSTRUCTION TO THEIR ORIGINAL CONDITIONS, SATISFACTORY TO THE ENGINEER.
10. NO TREES, SHRUBS, ROOTS, BRANCHES, WOOD, CONCRETE, OR OTHER DEBRIS SHALL BE BURIED IN FILLS, EMBANKMENTS OR STOCK PILES.
11. NO CLEARED MATTER, DEBRIS SHALL BE STORED AT CONSTRUCTION SITE.
12. CONTRACTOR SHALL GUARANTEE THAT WORK PERFORMED UNDER THIS CONTRACT WILL NOT PERMANENTLY DAMAGE TREES, SHRUBS, TURF OR PLANTS DESIGNATED TO REMAIN, OR OTHER ADJACENT WORK OR FACILITIES. IF DAMAGE RESULTING FROM CONTRACTOR'S OPERATIONS APPEARS DURING THE PERIOD UP TO 24 MONTHS AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPLACE DAMAGED ITEMS AT HIS EXPENSE.
13. DAMAGE TO ANY EXISTING ITEMS, NOT SHOWN IN CONTRACT DOCUMENTS TO BE REMOVED, SUCH AS PAVEMENT, GRASSED AREAS, UTILITIES, STRUCTURES OR OTHER FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL ASPHALT PAVEMENTS, GRASSED AREAS AND LANDSCAPING THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS.
14. EXCEPT AS NOTED BELOW, CONTRACTOR SHALL REMOVE FROM THE SITE AND SATISFACTORILY DISPOSE OF ALL TREES, SHRUBS, STUMPS, ROOTS, BRUSH, MASONRY, RUBBISH, SCRAP, DEBRIS, PAVEMENT, CURBS, FENCES AND MISCELLANEOUS OTHER STRUCTURES NOT COVERED UNDER OTHER SECTIONS AS SHOWN, SPECIFIED OR OTHERWISE REQUIRED TO PERMIT CONSTRUCTION OF THE NEW WORK.
15. BURNING OF MATERIALS IS EXPRESSLY FORBIDDEN.
16. TREES AND SHRUBS TO BE SAVED:

    A. TREES AND SHRUBS WHICH ARE TO REMAIN SHALL BE PROTECTED BY FENCES, BARRICADES, WRAPPING OR OTHER MEANS OF PROTECTION. EQUIPMENT STORAGE, MATERIAL STOCKPILES, ETC., SHALL NOT BE PERMITTED WITHIN TREE BRANCH SPREAD.

    B. PROTECT ALL OTHER TREES AND SHRUBS FROM DEFACEMENT, INJURY AND DESTRUCTION. PRESERVE TREES WITHIN THE CONTRACT LIMITS THAT ARE SO DELINEATED ON THE PLANS OR AS MARKED IN THE FIELD BY THE ENGINEER. ALSO, ALL TREES TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

    C. DO NOT CUT ROOTS UNNECESSARILY; HANDWORK OR OTHER METHODS SHALL BE IMPLEMENTED TO PREVENT DAMAGE TO ROOTS WHICH EXTEND INTO GRADING LIMITS OR LIMITS OF EXCAVATION. DISTURB ROOTS AS LITTLE AS POSSIBLE WHEN TUNNELING UNDER TREES. BACKFILLING AROUND TREE ROOTS SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION IN THE VICINITY OF TREES.

    D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL VEGETATION FROM DAMAGE RESULTING FROM EMISSIONS FROM MOTORIZED EQUIPMENT.

    E. CONTRACTOR SHALL BE VIGILANT OF ANY OVERHEAD UTILITY LINES WHEN USING AERIAL EQUIPMENT FOR TREE TRIMMING OPERATIONS

    F. DURING WORKING OPERATION, PROTECT THE TRUNK, FOLIAGE, AND ROOT SYSTEM OF ALL TREES TO BE SAVED WITH BOARDS OR OTHER GUARDS AND AS REQUIRED TO PREVENT DAMAGE, INJURY AND DEFACEMENT. DO NOT PILE EXCAVATED MATERIAL ADJACENT TO THE BASE OF ANY TREES. DO NOT ALLOW RUNOFF TO ACCUMULATE AROUND BASE OF TREES. DO NOT FASTEN OR ATTACH ROPES, CABLE, OR GUY WIRES TO TREES WITHOUT PERMISSION OF THE ENGINEER. WHEN SUCH PERMISSION IS GRANTED, PROTECT THE TREE BEFORE MAKING FASTENING OR ATTACHMENTS BY PROVIDING BURLAP WRAPPING AND SOFTWOOD CLEATS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGE RESULTING FROM THESE ACTIONS. USE OF AXES OR CLIMBING SPURS FOR TRIMMING WILL NOT BE PERMITTED. PROVIDE CLIMBING ROPES DURING TRIMMING.

    G. REMOVE SHRUBS TO BE SAVED, TAKING A SUFFICIENT EARTH BALL AT THE ROOTS TO MAINTAIN THE SHRUB. TEMPORARILY REPLANT IF REQUIRED, AND REPLACE AT THE COMPLETION OF CONSTRUCTION IN CONDITION EQUALING THE ORIGINAL.

    H. TREE AND SHRUB REPAIR WHERE REQUIRED SHALL BE PERFORMED BY A TREE SURGEON.

    I. TREES AND SHRUBS INTENDED TO REMAIN WHICH ARE DAMAGED BEYOND REPAIR BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

UTILITY NOTES:

1. APPROXIMATE LOCATION OF KNOWN UTILITY STRUCTURES AND FACILITIES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF WORK ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER. THE CONTRACTOR IS ADVISED TO VERIFY IN FIELD ALL THE FACTS CONCERNING THE UTILITY LOCATIONS AND OTHER CONSTRUCTION OBSTACLES PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES WHICH MAY NOT AFFECT PROJECT DESIGN AND/OR SCOPE.
2. TRENCH DETAILS ARE INTENDED TO PROVIDE INFORMATION REGARDING BACKFILLING MATERIALS AND GENERAL MATERIAL DEPTHS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE APPROPRIATE SAFETY MEASURES, SHEETING AND BRACING AS NECESSARY. SHEETING CONDITIONS ARE TO BE DESIGNED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER FOR APPROVAL. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR FIELD CONDITIONS, TRENCHING OR BACKFILLING OPERATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA STANDARDS AND DETAILS FOR TRENCH EXCAVATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PRECLUDING PONDING OF WATER IN ALL AREAS. DEWATERING OPERATIONS SHALL BE IN ACCORDANCE WITH NYSDEC REGULATIONS AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN.
4. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA CONFINED SPACE ENTRY REQUIREMENTS (29 CFR PART 1910).
5. THE CONTRACTOR SHALL COMPLY WITH THE LATEST REVISED OSHA SHEETING REQUIREMENTS (29 CFR PART 1926.650,651,652).
6. ALL EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE AND THAT INTERFERE WITH THE WORK SHALL BE RELOCATED UNLESS OTHERWISE SHOWN. COORDINATE WITH ENGINEER.
7. ALL ABANDONED PIPES SHALL BE PLUGGED, REMOVED, CRUSHED, OR FILLED WITH A SUITABLE MATERIAL AS DIRECTED BY THE ENGINEERS, ABANDONED PIPES 12" INSIDE DIAMETER AND LARGER MUST BE REMOVED, FILLED, OR CRUSHED IN PLACE. SMALLER PIPES SHALL BE PLUGGED AND ABANDONED IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES OR STRUCTURES DUE TO THEIR CONSTRUCTION OPERATIONS. ALL DAMAGE SHALL BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH DIRECTIONS FROM THE OWNING AUTHORITY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
9. IF OTHER UTILITY WORK IS PROPOSED, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO DETERMINE THEIR SCHEDULE FOR PERFORMING UTILITY RELOCATION AND INSTALLATION WORK. THE CONTRACTOR SHALL SHALL SCHEDULE THEIR WORK ACCORDINGLY IN ORDER TO NOT INTERFERE WITH THE WORK OF THE UTILITY COMPANIES.
10. TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE TEMPORARILY SUPPORTED AND STEEL PLATED WHEN WORK IS NOT IN PROGRESS. CONTRACTOR MUST ENSURE NO TRENCHES ARE LEFT OPEN OVERNIGHT. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF STEEL PLATES THAT ARE CAPABLE OF SAFELY SUPPORTING THE SUBJECTED LOADS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING WITHIN THE LIMITS OF CONSTRUCTION AND FOR ALL AREAS WHERE EXISTING STREET AND AREA LIGHTING SHUT-DOWN IS REQUIRED TO INSTALL NEW LIGHTING AND ELECTRICAL SERVICE.
12. THE CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATING SERVICE TO LOCATE AND MARK-OUT ALL UTILITIES WITHIN 15-FEET OF THE EXISTING AND PROPOSED WATERMAINS. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY THAT INCLUDES THE LOCATION OF THE EXISTING UTILITIES IDENTIFIED.
13. THE CONTRACTOR SHALL PERFORM UTILITY EXPLORATIONS IN ADVANCE OF EACH WORK DAY TO AVOID DELAYS IN WORK PRODUCTION DUE TO UNFORESEEN CONDITIONS.
14. TEMPORARY SEEDING/MULCHING SHALL BE INSTALLED IN DISTURBED AREAS IF CONSTRUCTION OPERATION CEASE FOR MORE THAN SEVEN DAYS.
15. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDED AS AN APPENDIX TO THE CONTRACT SPECIFICATIONS.

SEEDING NOTES:

1. APPROVED SEEDING WINDOWS:
   - APRIL 1st - MAY 31st
   - AUGUST 16th - OCTOBER 15th (Preferred Window)
2. AREAS TO BE SEEDED SHALL HAVE A MINIMUM OF 4 INCHES OF PLANTING SOIL MIX, SEE SPECIFICATIONS.
3. ALL SEED BEDS SHALL BE SOIL TESTED FOR pH AND NUTRIENTS, VERIFY RESULTS WITH LANDSCAPE ARCHITECT.
4. FERTILIZE, AS PER LABORATORY RECOMMENDATIONS, WITH A 10 - 6 - 4 SLOW RELEASE NITROGEN FERTILIZER CONSISTING OF 50% MIN. ORGANIC NITROGEN AND 50% MIN. WATER INSOLUBLE NITROGEN.
5. ADJUST pH, AS RECOMMENDED BY LABORATORY, WITH EITHER PELLETIZED DOLOMITIC LIMESTONE OR FERROUS SULFATE AT LABORATORY RECOMMENDED RATES.
6. SEED BED SHALL BE LOOSENED TO A DEPTH OF 8 INCHES.
7. ALL SEED BEDS SHALL BE WEED-FREE AND RAKED FREE OF DEBRIS (OVER 1 INCH DIAMETER) AND DISPOSED OF OFF SITE.
8. CONTRACTOR TO VERIFY ALL FINAL GRADING HAS BEEN COMPLETED PRIOR TO SEEDING.
9. ALL SEED BEDS SHALL BE SEEDED WITHIN 24 HOURS OF PREPARATION.
10. ALL SEEDING SHALL BE APPLIED WITH AN ENGINEERED WOOD FIBER HYDROMULCH (SEE SPECIFICATIONS). CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. CONTRACTOR SHALL REVIEW METHOD OF INSTALLATION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
11. SEED BED SHALL BE IRRIGATED AND MAINTAINED MOIST UNTIL GERMINATION AND ESTABLISHMENT.
12. ONCE SEED BEDS HAVE BEEN SEEDED, ALL ACCESS (PEDESTRIAN AND VEHICULAR) SHALL BE RESTRICTED. CONTRACTOR SHALL TEMPORARILY CORDON OFF ACCESS WITH FENCING, FLAGGING, RIBBON, ETC.
13. CONTRACTOR RESPONSIBLE FOR MIN. 95% SEED ESTABLISHMENT AND MAINTENANCE, RE-SEED ANY BARE SPOTS AS REQUIRED TO MAINTAIN SOIL COVERAGE.
14. FOR TEMPORARY STABILIZATION, THE CONTRACTOR SHALL USE THE ANNUAL REYGRASS (LOLIUM PRENNE SSP. MULTIFLORUM) BE USED AT A RATE OF 30 LBS./ACRE AS IT DOES NOT INTERFERE WITH LATER ESTABLISHMENT OF NATIVE GRASS OR MEADOW MIXES.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN.
2. ANY DISTURBED AREAS THAT WILL NOT RECEIVE PERMANENT RESTORATION WITHIN TEN (10) DAYS AFTER FINAL GRADING, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY COVER. THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.
5. A SUB-BASE COURSE DETAIL WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.; STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY COVER OF STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NYS STANDARDS.
7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.; SLOPES GREATER THAN 3:1).
8. IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
9. THE WESTCHESTER COUNTY, AND THE ENGINEER, SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
11. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MAINTAIN DUST CONTROL. DIRT HAUL ROADS SHALL BE SPRINKLED WITH WATER OR GIVEN A SURFACE OF CRUSHED STONES OR WOODCHIPS AS REQUIRED. VEHICLES SHALL BE CLEANED, AS NECESSARY, PRIOR TO USING PUBLIC STREETS. PAVED ROADS SHALL BE SPRINKLED WITH WATER.
12. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE LOCATED IN THE FIELD AS REQUIRED OR AT THE DIRECTION OF THE ENGINEER. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION AND DETAILS FOR ALL SUCH DEVICES BUT ARE TO BE USED AS A REASONABLE GUIDE.
13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO WESTCHESTER COUNTY AND THE ENGINEER. THE REVISED PLANS MUST BE PREPARED BY THE CONTRACTOR AND MUST MEET ALL CURRENT NYS SOIL EROSION AND SEDIMENT CONTROL PRACTICES.
14. CONTRACTOR SHALL OBTAIN ALL REQUIRED SEDIMENT CONTROL PERMITS.
15. UPON COMPLETION OF CONSTRUCTION WORK AND AFTER FINAL GRADING AND WHEN PERMANENT STABILIZATION HAS BEEN ESTABLISHED, HAY BALES, SILT FENCES AND ALL OTHER SOIL PLAN APPURTENANCES WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, UNLESS ORDERED TO REMAIN BY THE ENGINEER.
16. ALL EXCESS EXCAVATED MATERIAL, EXCEPT FOR TOP SOIL, WILL BE REMOVED FROM THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
17. CONDUIT OUTLETS AND CATCH BASIN INLETS MUST BE PROTECTED PRIOR TO START OF CONSTRUCTION.
18. THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION OPERATIONS FOR REVIEW AND SUBMITTAL TO THE OWNER AND THE ENGINEER.
19. THE CONTRACTOR SHALL MEET ENGINEER ON-SITE TO DEFINE THOSE AREAS WHICH WILL REQUIRE SOIL EROSION AND SEDIMENT CONTROL FACILITIES, DISCUSS THEIR CONSTRUCTION AND THEREAFTER PROVIDE DETAILED PLANS FOR REVIEW OF SUCH FACILITIES BY THE OWNER AND THE ENGINEER.
20. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE WHERE POSSIBLE PRIOR TO, OR IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING.
21. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE AND MAINTAINED; INCLUDING SILT AND SEDIMENT REMOVAL, UNTIL CONSTRUCTION IS COMPLETED, AREA STABILIZED AND THE ENGINEER SO DIRECTS.
22. THE CONTRACTOR SHALL CONFINE SOIL DISTURBANCE ACTIVITY TO THE AREAS CONTAINED WITHIN THE " LIMIT OF DISTURBANCE " LINES EXCEPT AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE AND COORDINATION WITH ADJACENT CONTRACTS. SUCH ACTIVITY SHALL ESSENTIALLY CONSIST OF CLEARING, GRUBBING, GRADING AND CONSTRUCTION IN AREAS DEFINED AS BUILDINGS, TANKS, PIPELINE, PARKING AREAS, DRIVES AND WALKWAYS OR AS MAY BE REQUIRED DUE TO GRADE CHANGES OR RETAINING WALLS.
23. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. SEDIMENT FILTER SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE DETAILS OF DESIGN AND CONSTRUCTION SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AND ALL OTHER PERTINENT AGENCIES FOR REVIEW.
24. SOIL STABILIZATION METHODS SHALL BE UNDERTAKEN COINCIDENTALLY WITH ALL MAJOR SITE IMPROVEMENTS AND CONTINUE DURING THE ENTIRE CONSTRUCTION ACTIVITY PERIOD.
25. THE LIMITS OF FENCING FOR TREE PROTECTION WILL BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.
26. COMPLY WITH GENERAL PERMIT GP-0-20-001, AS OUTLINED IN THE STORM WATER PREVENTION PLAN (SWPPP).

WATER MAIN CONSTRUCTION NOTES:

1. THE WATER MAIN SHALL HAVE A MINIMUM COVER OF 4'0" AND A MAXIMUM COVER OF 5'-6" UNLESS SPECIFICALLY DETAILED
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE FOLLOWING
   a. AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C-600
   b. NEW YORK STATE SANITARY CODE, PART 5
   c. GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD (GLUMRB) RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATE STANDARDS)
3. THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" AT 1-800-962-7962 AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL SAFETY.
4. WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE, PUSH JOINT, WITH A CEMENT MORTAR LIVING. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LAST REVISION OF AWWA C-100.
5. LEAKAGE AND PRESSURE TESTING, AS DESCRIBED IN SECTION 15.1 OF THE SPECIFICATIONS SHALL CONFORM TO THE LATEST REVISION OF AWWA C-600.
6. DISINFECTION SHALL CONFORM TO THE LAST EDITION OF AWWA C-651, EXCEPT THAT SECTION 4.3, "THE TABLET METHOD", SHALL NOT BE UTILIZED.
7. BACTERIOLOGICAL SAMPLES ARE REQUIRED FOR EVERY 1,200 FEET OF WATER MAIN INSTALLED AND FROM ALL DEAD ENDS. SAMPLES MUST NOT BE TAKEN ON TWO (2) CONSECUTIVE DAYS, IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-651.
8. STORM DRAIN, SANITARY SEWER, SUB GRADE AND CURBING MUST BE INSTALLED BEFORE THE INSTALLATION OF WATER MAIN.
9. MAINTAIN SEPARATION BETWEEN WATER AND SEWER INFRASTRUCTURE IN ACCORDANCE WITH THE WCDOH REGULATIONS, AS DESCRIBED IN THE STANDARD DETAILS.
10. WHERE SEPARATION BETWEEN WATER MAIN AND SEWER INFRASTRUCTURE, AS SHOWN ON THE STANDARD DETAILS CANNOT BE ACCOMPLISHED, SPECIAL PROTECTION AS SHOWN ON THE DRAWINGS SHALL BE PROVIDED. THESE CONDITIONS WILL BE EVALUATED BY WJWW, TOWN OF NORTH CASTLE AND WCDOH ON A CASE-BY-CASE BASIS AND PRIOR WCDOH APPROVAL MUST BE OBTAINED.
11. WHERE CROSSING A SANITARY OR STORM SEWER AND HORIZONTAL CLEARANCE IS LESS THAN 10 FEET, HAVING BEEN APPROVED BY WJWW, TOWN OF NORTH CASTLE AND WCDOH, ENCASE WATER MAIN IN 50-150 PSI CONTROLLED LOW STRENGTH AGGREGATE (K-CRETE), AFTER WRAPPING IN POLYETHYLENE SHEETING.
12. CONTRACTOR SHALL NOT PLACE ANY JOINTS WITHIN 5 FEET OF ANY STORM AND SANITARY CROSSING.
13. THRUST BLOCKS AS SHOWN ON DRAWING C-09 SHALL BE INSTALLED IN CONFORMANCE WITH THE SIZE OF PIPE TO BE INSTALLED AND THEN ONLY IF THE CONDITION DEPICTED OCCUR.
14. ALL PUSH ON JOINTS SHALL HAVE FIELD LOCK GASKETS UNLESS OTHERWISE APPROVED BY WJWW.
15. ALL MECHANICAL JOINT FITTINGS SHALL HAVE MECHANICAL JOINT RESTRAINT (MEGALUG) FLANGES
16. ALL SERVICE CONNECTIONS SHALL REQUIRE A METER PIT, WHERE INDICATED ON DRAWINGS.
17. FOSTER ADAPTERS SHALL BE USED AS DIRECTED BY THE ENGINEER.
18. ALL PIPE AND APPURTENANCES MUST BE MANUFACTURED IN THE U.S.A
19. FOR ALL EXISTING AND NEW VALVES, NOT LOCATED BELOW PAVEMENT, THE CONTRACTOR SHALL INSTALL A 24"x24"x6"D CONCRETE COLLAR AROUND THE VALVE BOX, FLUSH WITH GRADE.
20. THE CONTRACTOR SHALL CONFIRM PROPER OPERATION OF THE EXISTING VALVES IDENTIFIED ON THE DRAWINGS.
21. THE CONTRACTOR SHALL UTILIZE SOLID SLEEVES FOR ALL CONNECTIONS TO EXISTING WATER MAINS INCLUDING BUT NOT LIMITED TO NEW PIPE, VALVES, TEES AND FITTING CONNECTIONS.

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RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

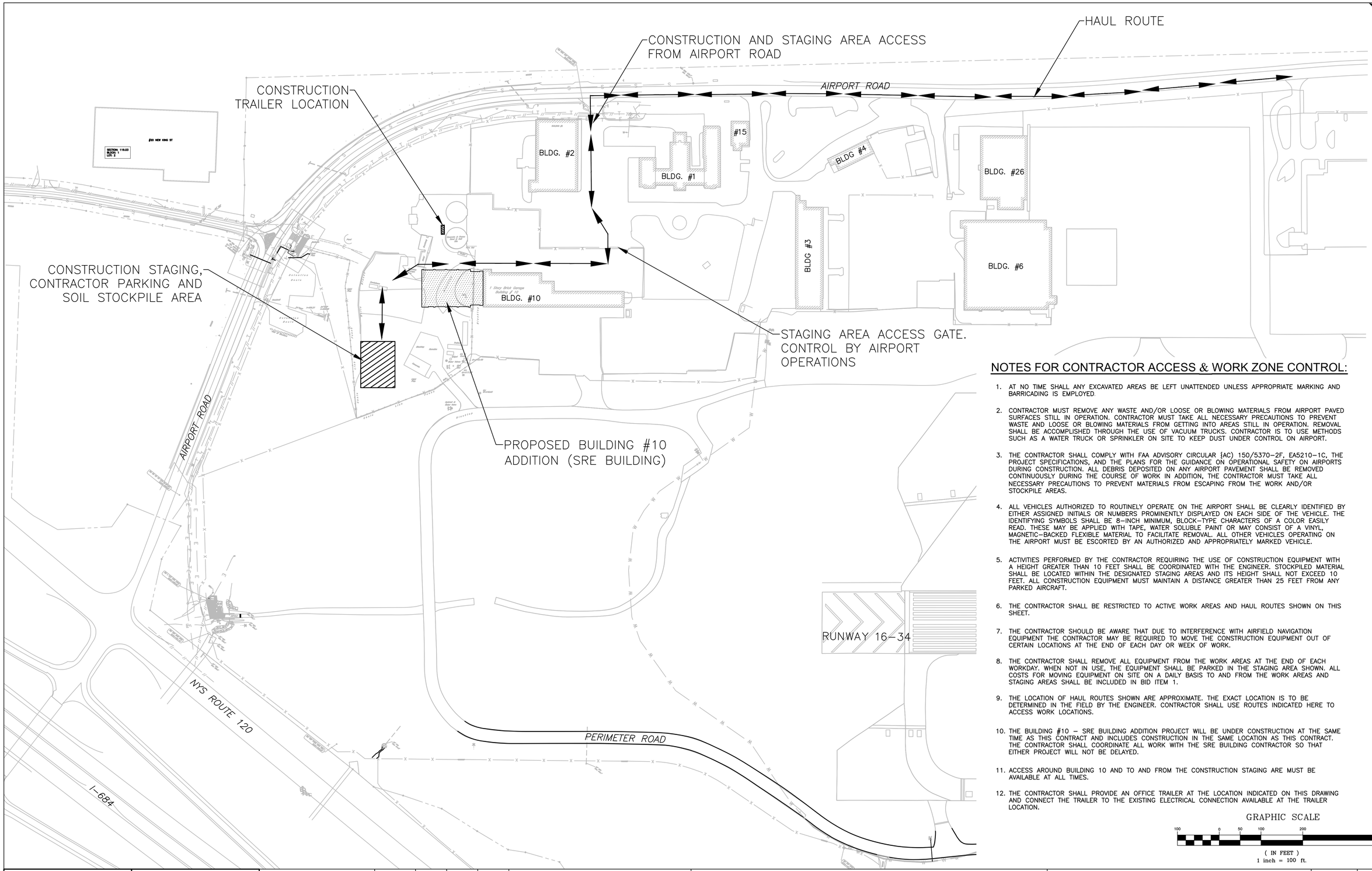
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
NOTES

CONTRACT NUMBER 24-528
SHEET NUMBER G-02
SHEET NO. 3 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-143-0
REV. NO.



NOTES FOR CONTRACTOR ACCESS & WORK ZONE CONTROL:

1. AT NO TIME SHALL ANY EXCAVATED AREAS BE LEFT UNATTENDED UNLESS APPROPRIATE MARKING AND BARRICADING IS EMPLOYED.
2. CONTRACTOR MUST REMOVE ANY WASTE AND/OR LOOSE OR BLOWING MATERIALS FROM AIRPORT PAVED SURFACES STILL IN OPERATION. CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PREVENT WASTE AND LOOSE OR BLOWING MATERIALS FROM GETTING INTO AREAS STILL IN OPERATION. REMOVAL SHALL BE ACCOMPLISHED THROUGH THE USE OF VACUUM TRUCKS. CONTRACTOR IS TO USE METHODS SUCH AS A WATER TRUCK OR SPRINKLER ON SITE TO KEEP DUST UNDER CONTROL ON AIRPORT.
3. THE CONTRACTOR SHALL COMPLY WITH FAA ADVISORY CIRCULAR {AC) 150/5370-2F, EA5210-1C, THE PROJECT SPECIFICATIONS, AND THE PLANS FOR THE GUIDANCE ON OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION. ALL DEBRIS DEPOSITED ON ANY AIRPORT PAVEMENT SHALL BE REMOVED CONTINUOUSLY DURING THE COURSE OF WORK IN ADDITION, THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PREVENT MATERIALS FROM ESCAPING FROM THE WORK AND/OR STOCKPILE AREAS.
4. ALL VEHICLES AUTHORIZED TO ROUTINELY OPERATE ON THE AIRPORT SHALL BE CLEARLY IDENTIFIED BY EITHER ASSIGNED INITIALS OR NUMBERS PROMINENTLY DISPLAYED ON EACH SIDE OF THE VEHICLE. THE IDENTIFYING SYMBOLS SHALL BE 8-INCH MINIMUM, BLOCK-TYPE CHARACTERS OF A COLOR EASILY READ. THESE MAY BE APPLIED WITH TAPE, WATER SOLUBLE PAINT OR MAY CONSIST OF A VINYL, MAGNETIC-BACKED FLEXIBLE MATERIAL TO FACILITATE REMOVAL. ALL OTHER VEHICLES OPERATING ON THE AIRPORT MUST BE ESCORTED BY AN AUTHORIZED AND APPROPRIATELY MARKED VEHICLE.
5. ACTIVITIES PERFORMED BY THE CONTRACTOR REQUIRING THE USE OF CONSTRUCTION EQUIPMENT WITH A HEIGHT GREATER THAN 10 FEET SHALL BE COORDINATED WITH THE ENGINEER. STOCKPILED MATERIAL SHALL BE LOCATED WITHIN THE DESIGNATED STAGING AREAS AND ITS HEIGHT SHALL NOT EXCEED 10 FEET. ALL CONSTRUCTION EQUIPMENT MUST MAINTAIN A DISTANCE GREATER THAN 25 FEET FROM ANY PARKED AIRCRAFT.
6. THE CONTRACTOR SHALL BE RESTRICTED TO ACTIVE WORK AREAS AND HAUL ROUTES SHOWN ON THIS SHEET.
7. THE CONTRACTOR SHOULD BE AWARE THAT DUE TO INTERFERENCE WITH AIRFIELD NAVIGATION EQUIPMENT THE CONTRACTOR MAY BE REQUIRED TO MOVE THE CONSTRUCTION EQUIPMENT OUT OF CERTAIN LOCATIONS AT THE END OF EACH DAY OR WEEK OF WORK.
8. THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM THE WORK AREAS AT THE END OF EACH WORKDAY. WHEN NOT IN USE, THE EQUIPMENT SHALL BE PARKED IN THE STAGING AREA SHOWN. ALL COSTS FOR MOVING EQUIPMENT ON SITE ON A DAILY BASIS TO AND FROM THE WORK AREAS AND STAGING AREAS SHALL BE INCLUDED IN BID ITEM 1.
9. THE LOCATION OF HAUL ROUTES SHOWN ARE APPROXIMATE. THE EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. CONTRACTOR SHALL USE ROUTES INDICATED HERE TO ACCESS WORK LOCATIONS.
10. THE BUILDING #10 – SRE BUILDING ADDITION PROJECT WILL BE UNDER CONSTRUCTION AT THE SAME TIME AS THIS CONTRACT AND INCLUDES CONSTRUCTION IN THE SAME LOCATION AS THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE SRE BUILDING CONTRACTOR SO THAT EITHER PROJECT WILL NOT BE DELAYED.
11. ACCESS AROUND BUILDING 10 AND TO AND FROM THE CONSTRUCTION STAGING ARE MUST BE AVAILABLE AT ALL TIMES.
12. THE CONTRACTOR SHALL PROVIDE AN OFFICE TRAILER AT THE LOCATION INDICATED ON THIS DRAWING AND CONNECT THE TRAILER TO THE EXISTING ELECTRICAL CONNECTION AVAILABLE AT THE TRAILER LOCATION.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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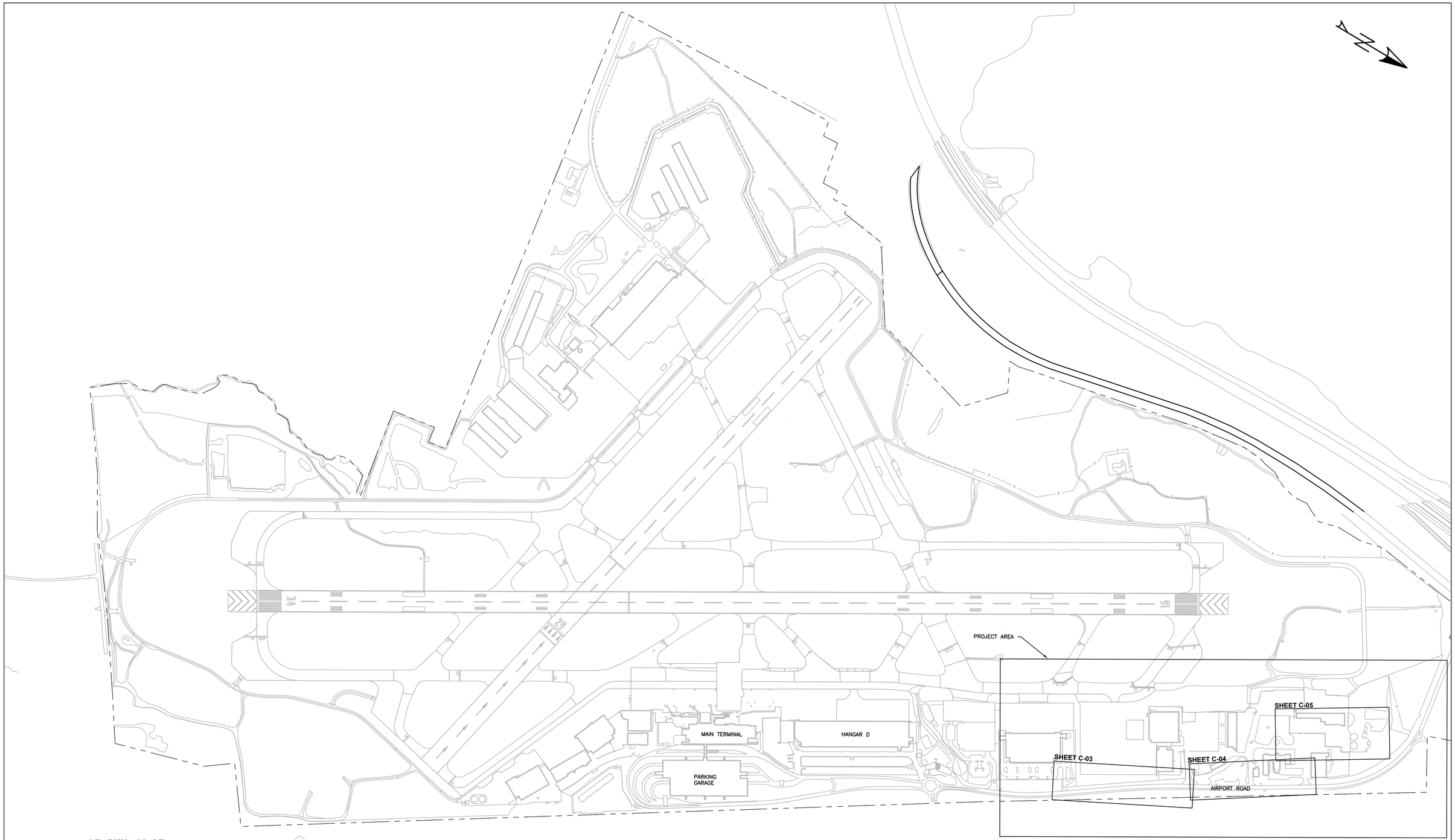
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
CONSTRUCTION ACCESS AND STAGING PLAN

CONTRACT NUMBER	SHEET NUMBER
24-528	C-01

SHEET NO. 4 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-144-0
REV. NO.



GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)
1 inch = 300 ft.

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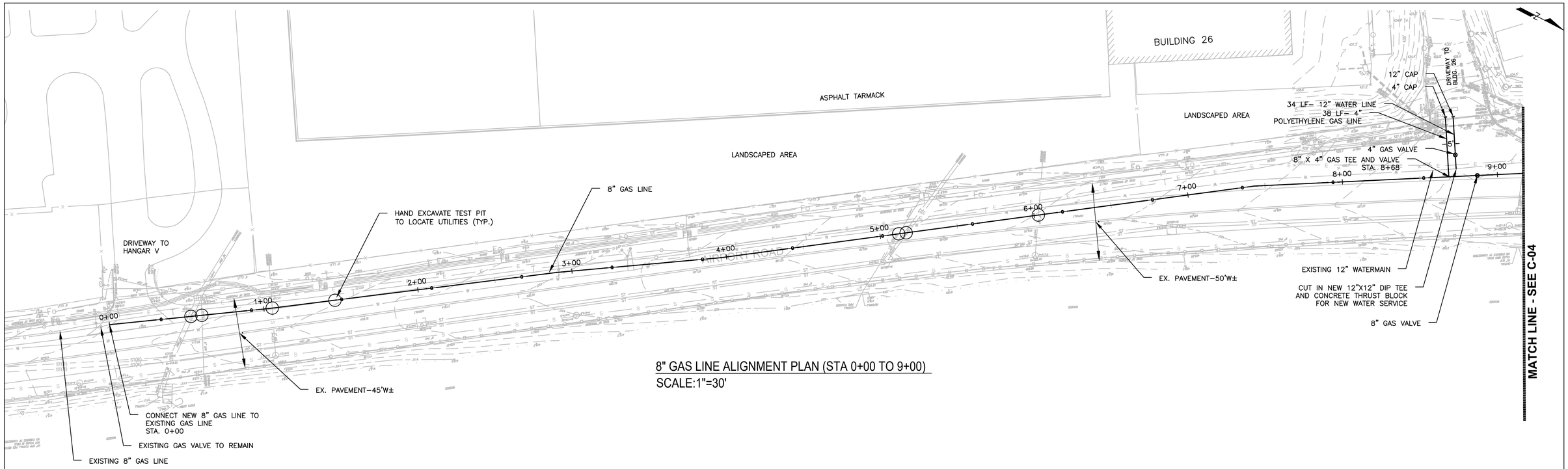
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

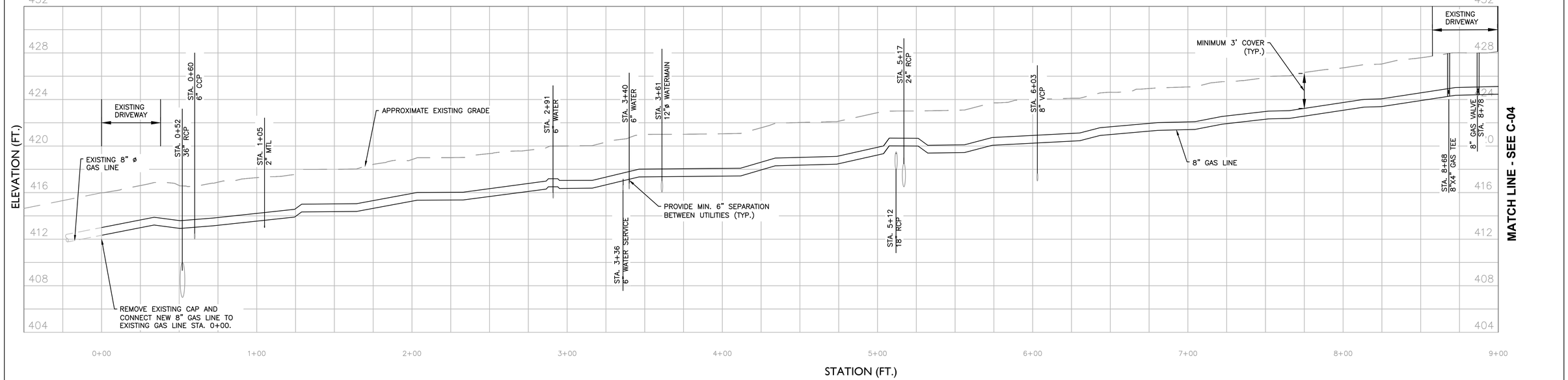
NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
KEY PLAN

CONTRACT NUMBER	SHEET NUMBER
24-528	C-02

SHEET NO. 5 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-145-0
REV. NO.



8" GAS LINE ALIGNMENT PLAN (STA 0+00 TO 9+00)
SCALE:1"=30'



8" GAS LINE PROFILE (STA 0+00 TO 9+00)
VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=30'

1"=4'–0" (4 2 0 4')
1"=30' (30 15 0 30')

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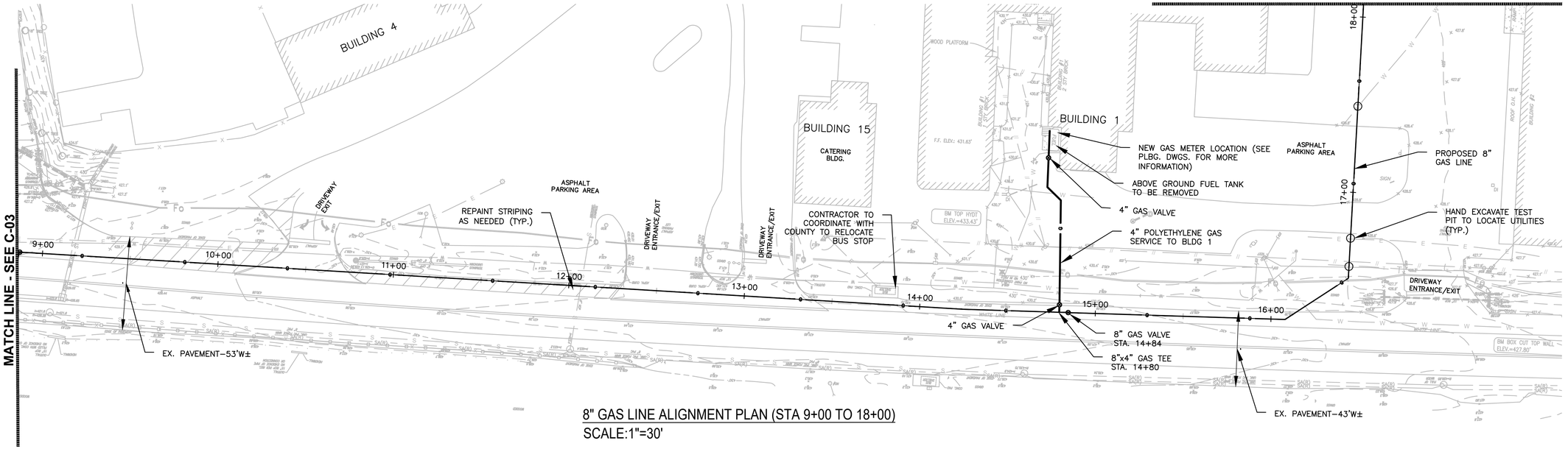
CONTRACTOR
NAME
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TITLE DATE

PROJECT COORDINATOR
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SIGNATURE
TITLE DATE

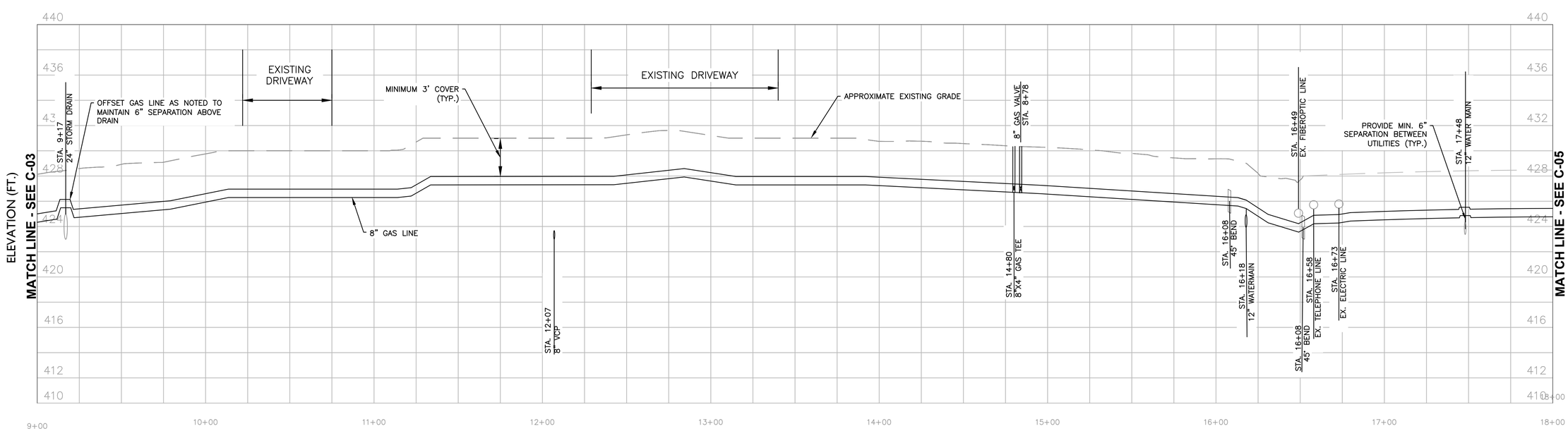
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DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
PLAN AND PROFILE NO. 1

CONTRACT NUMBER 24–528
SHEET NUMBER C–03
SHEET NO. 6 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48–00–C–146–0
REV. NO.



8" GAS LINE ALIGNMENT PLAN (STA 9+00 TO 18+00)
SCALE:1"=30'



STATION (FT.)

8" GAS LINE PROFILE (STA 9+00 TO 18+00)

VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=30'

1"=4'–0" (4 2 0 4')

1"=30' (30 15 0 30')

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TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

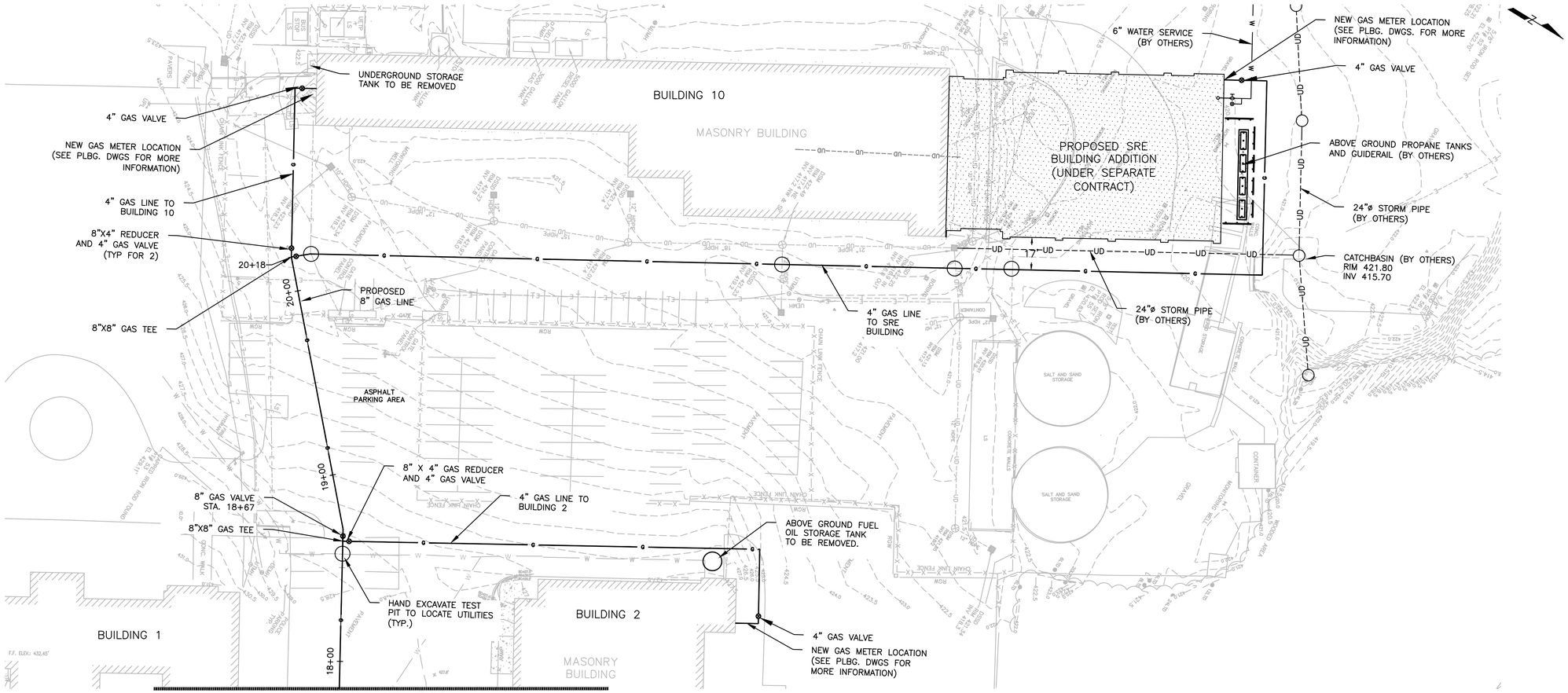
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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
PLAN AND PROFILE NO. 2

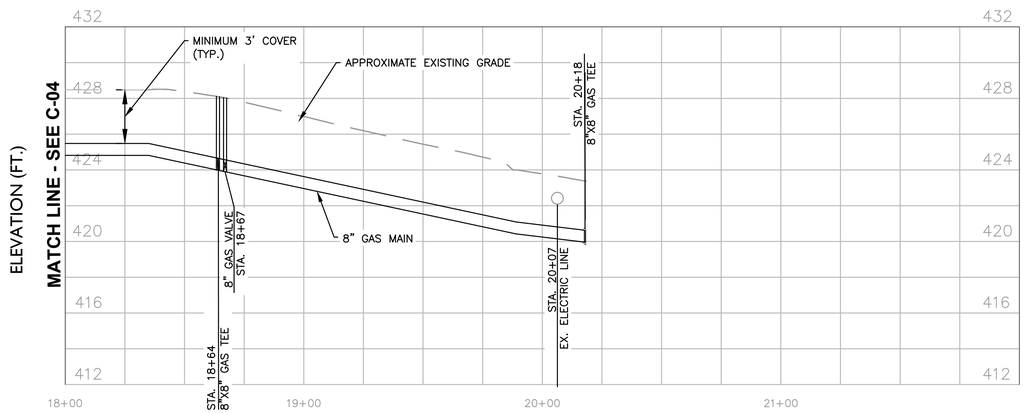
CONTRACT NUMBER	SHEET NUMBER
24–528	C–04

SHEET NO. 7 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48–00–C–147–0
REV NO.

F:\5910 (WC Airport Gas Line)\dwg\Civil\C-03 - C-05 VFG - C-ALIGNMENT GAS.dwg, 6/2/2025 5:00:47 PM, jgiunij



8" GAS LINE ALIGNMENT PLAN (STA 18+00 TO 21+14)
SCALE:1"=30'



8" GAS LINE PROFILE (STA 18+00 TO 21+14)
VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=30'

1"=4'-0" (4 2 0 4')

1"=30' (30 15 0 30')

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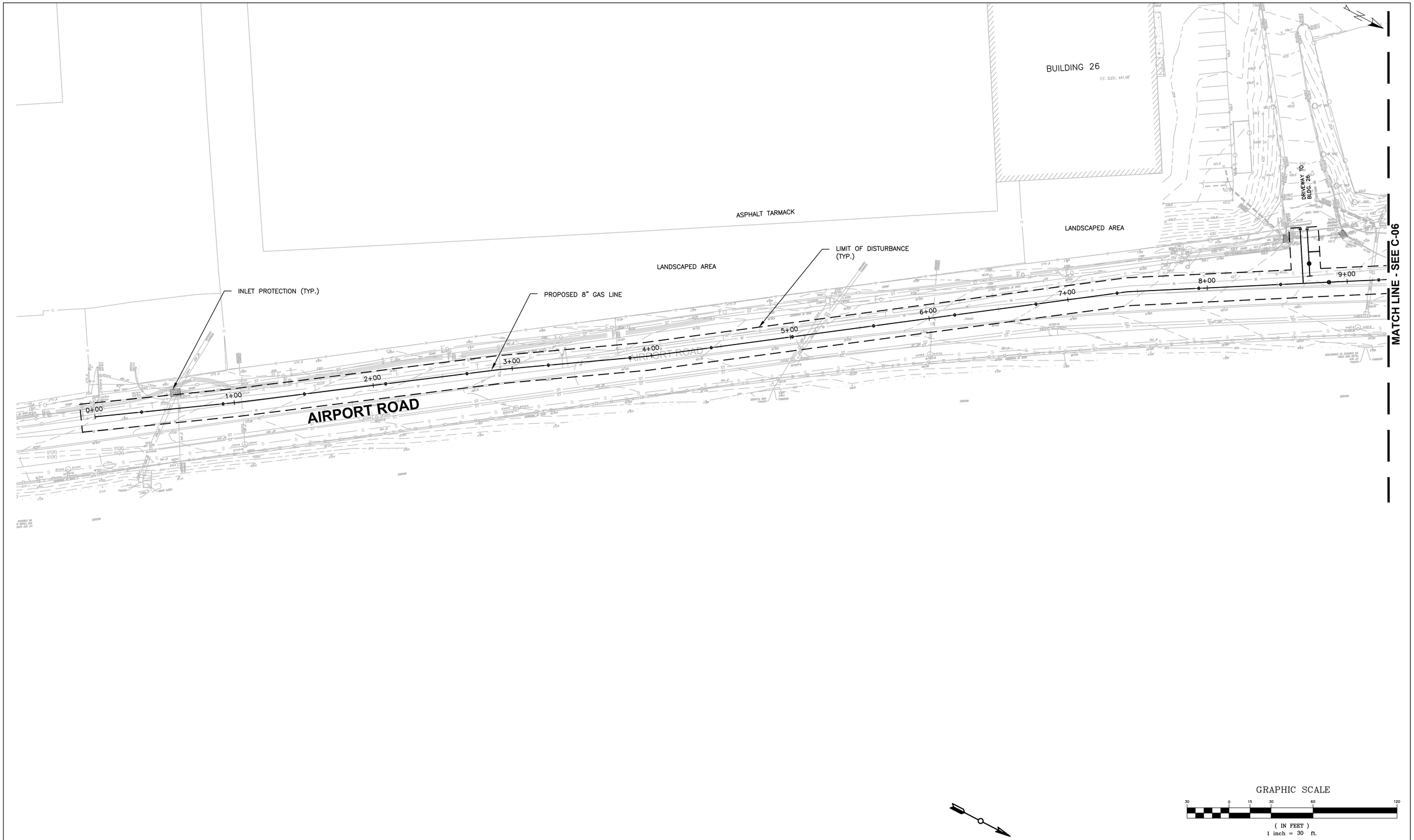
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

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DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
PLAN AND PROFILE NO. 3

CONTRACT NUMBER	SHEET NUMBER
24-528	C-05

SHEET NO. 8 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-148-0
REV NO.



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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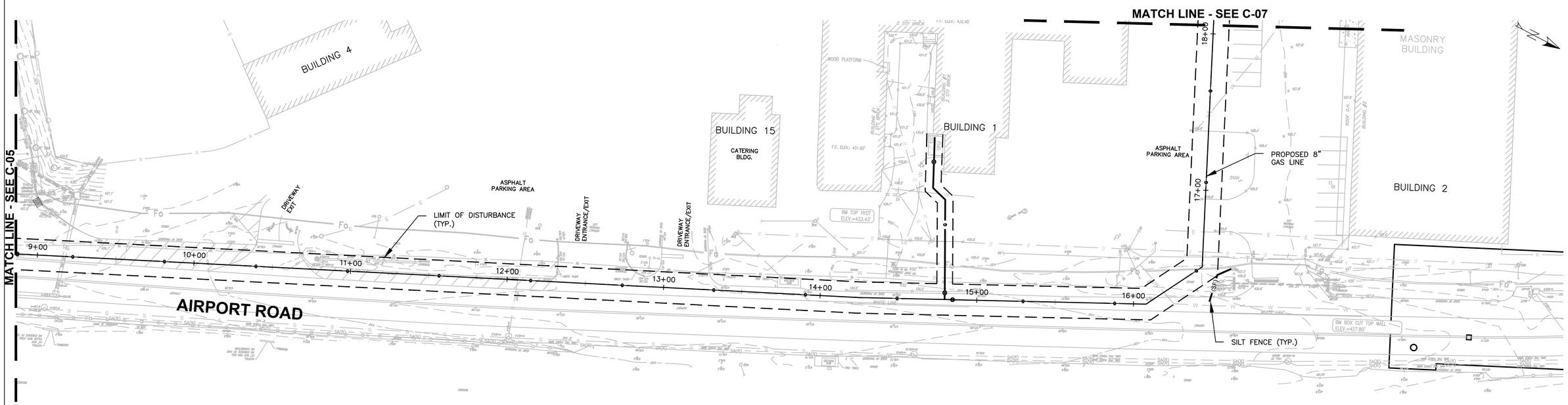
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

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DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
EROSION AND SEDIMENT CONTROL PLAN NO. 1

CONTRACT NUMBER	SHEET NUMBER
24-528	C-06

SHEET NO. 9 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-149-0
REV. NO.



GRAPHIC SCALE

30 0 15 30 60 120

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1 inch = 30 ft.

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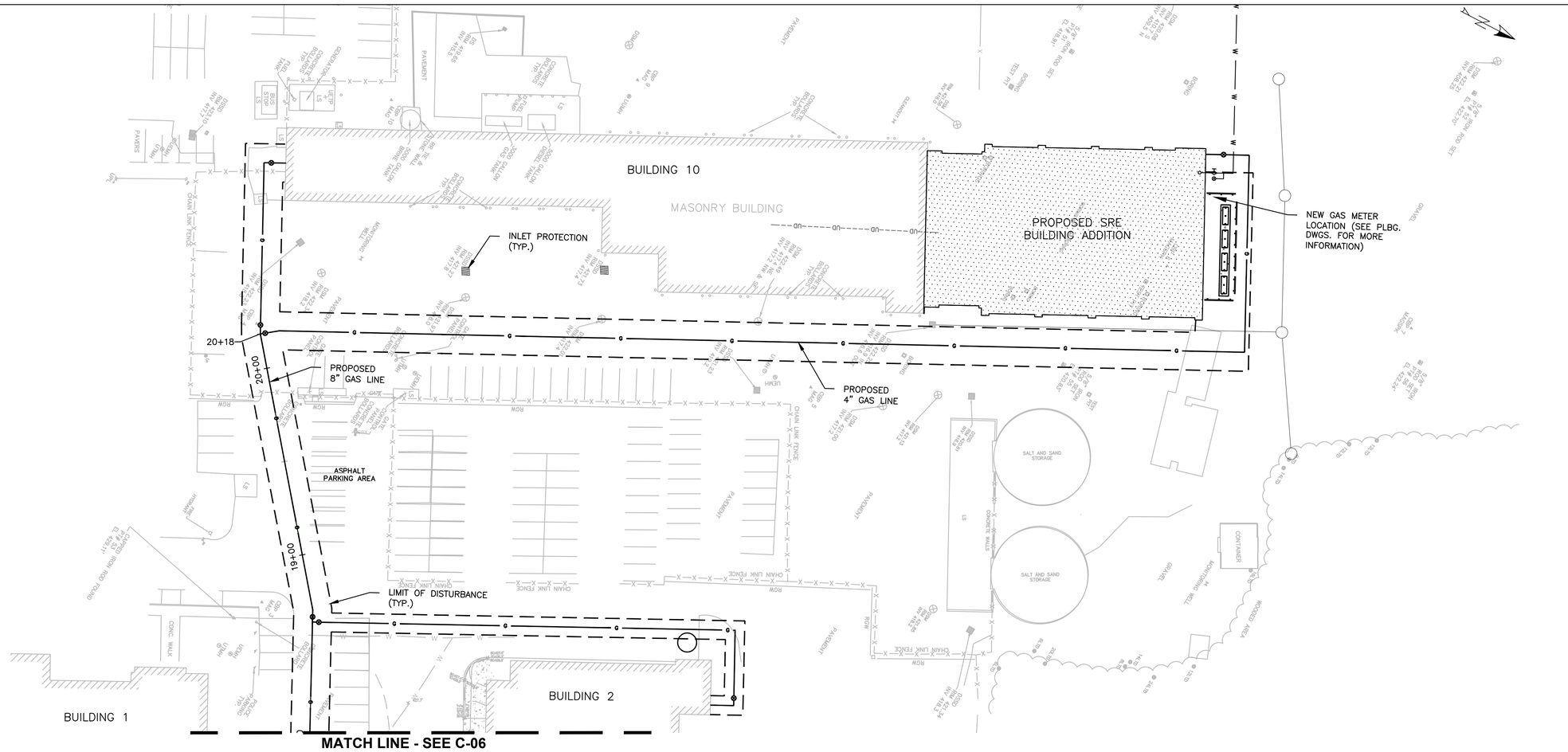
PROJECT COORDINATOR
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TITLE DATE

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DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
EROSION AND SEDIMENT CONTROL PLAN NO. 2

CONTRACT NUMBER	SHEET NUMBER
24-528	C-07

SHEET NO. 10 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-150-0
REV. NO.



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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TITLE DATE

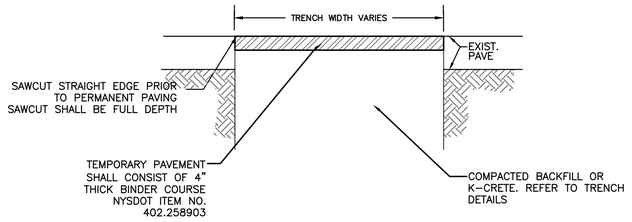
PROJECT COORDINATOR
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SIGNATURE
TITLE DATE

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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
EROSION AND SEDIMENT CONTROL PLAN NO. 3

CONTRACT NUMBER	SHEET NUMBER
24-528	C-08

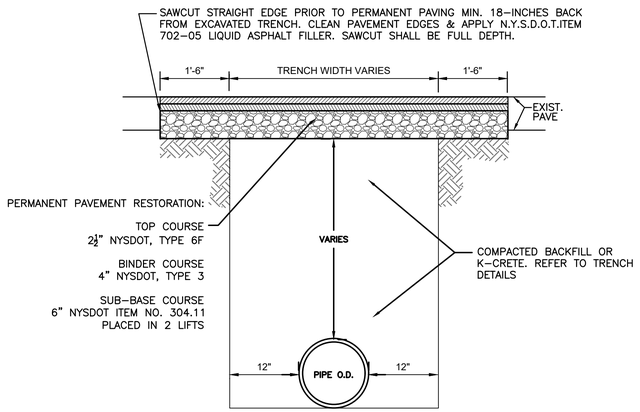
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SCALE: AS SHOWN
DATE: 04/14/2025
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REV. NO.



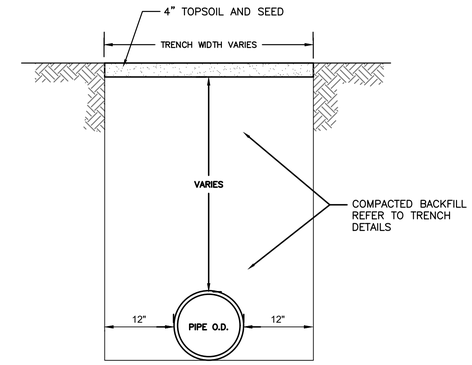
NOTES:

1. WHERE PAVEMENT HAS NOT BEEN RESTORED, TRENCH SHALL BE 100% PLATED DURING NON-WORKING HOURS.
2. IF ADJACENT PAVEMENT WITHIN CLOSE PROXIMITY OF TRENCH EXCAVATION SHOWS STRUCTURAL FATIGUE, ADDITIONAL PAVE. RESTORATION SHALL BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
3. TRAFFIC SHALL BE CONTROLLED AT ALL TIMES BY MEANS OF SIGNS, FLAGMEN, CONES, BARRICADES, ETC., AS PER THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

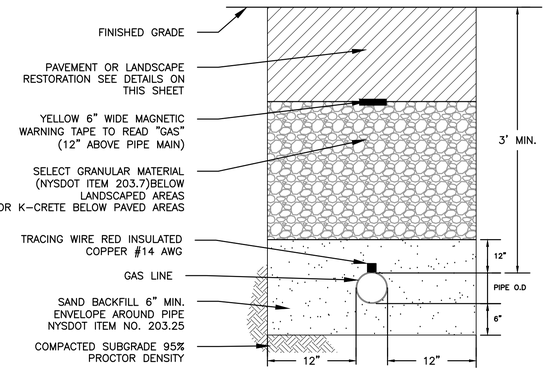
1 TEMPORARY PAVEMENT RESTORATION
NOT TO SCALE



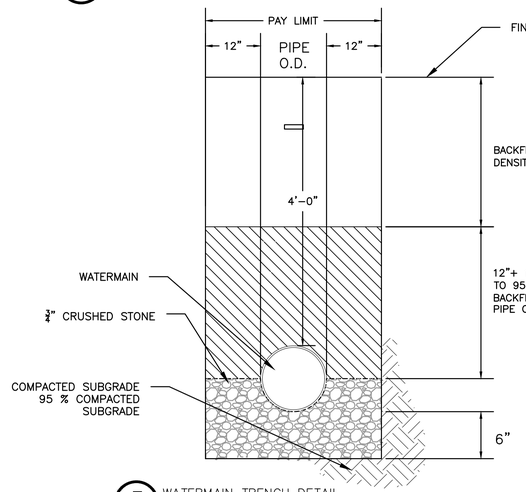
2 FINAL PAVEMENT RESTORATION IN PAVED AREAS
NOT TO SCALE



3 FINAL RESTORATION IN LANDSCAPED AREA
NOT TO SCALE

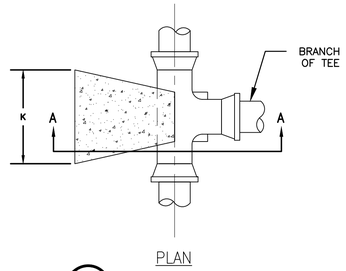


4 GAS LINE TRENCH
NOT TO SCALE

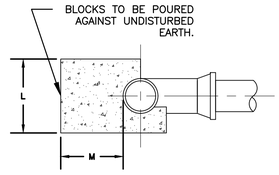


5 WATERMAIN TRENCH DETAIL
NOT TO SCALE

BRANCH SIZE IN.	BLOCK DIMENSIONS K IN.	L IN.	M IN.	CONCRETE VOLUME FT.^{3}
6	18	16	12	2.4
8	30	18	12	4.0
10	42	20	12	6.3
12	50	24	16	11.3
16	60	36	24	30.0



PLAN



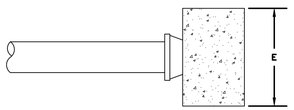
SECTION AA

NOTES:

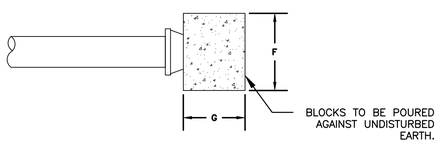
1. MIN. 3500 PSI CONCRETE TO BE USED.
2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.

6 THRUST BLOCKING FOR CAPS, PLUGS AND VALVES
NOT TO SCALE

PIPE DIAM. IN.	BLOCK DIMENSIONS E IN.	F IN.	G IN.	CONCRETE VOLUME (FT^3)
6	20	16	12	2.2
8	28	20	12	3.9
10	30	24	12	5.0
12	42	30	14	10.2
16	52	42	18	22.7



PLAN



ELEVATION

NOTES:

1. MIN. 3500 PSI CONCRETE TO BE USED.
2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
3. FOR USE ON ABANDONED LINES AND DEAD ENDS WHERE NO EXTENSION IS CONTEMPLATED.
4. SEE GENERAL CONSTRUCTION NOTE #13.

7 THRUST BLOCKING FOR TEES
NOT TO SCALE

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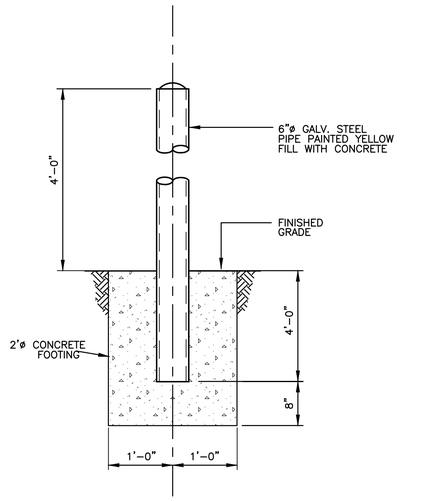
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SIGNATURE
TITLE DATE

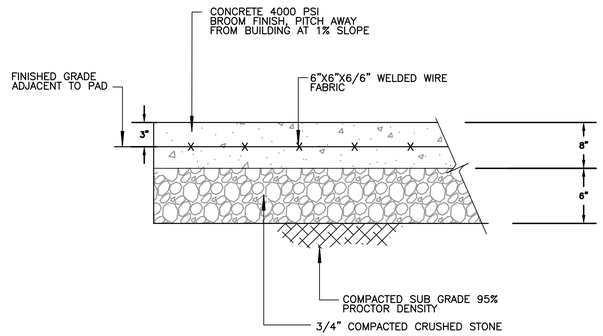
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
SITE DETAILS NO, 1

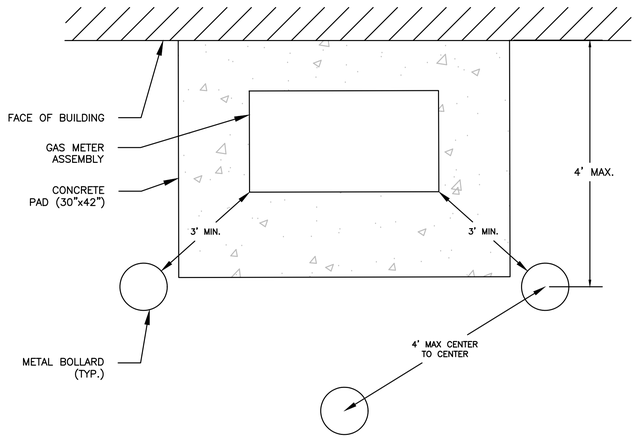
CONTRACT NUMBER 24-528
SHEET NUMBER C-09
SHEET NO. 12 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-152-0
REV NO. 1



1 BOLLARD DETAIL
NOT TO SCALE



5 CONCRETE PAVEMENT AT GAS METER
NOT TO SCALE



3 GAS METER PLAN
NOT TO SCALE

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☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

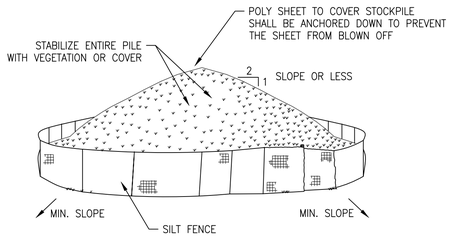
CONTRACTOR
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TITLE DATE

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NAME
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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
SITE DETAILS NO, 2

CONTRACT NUMBER 24-528
SHEET NUMBER C-10
SHEET NO. 13 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-C-153-0
REV. NO. 1

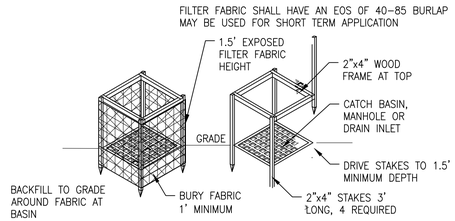


INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. LOCATION CHOSEN TO BE APPROVED BY OWNER.

1 STOCK PILE PROTECTION
NOT TO SCALE

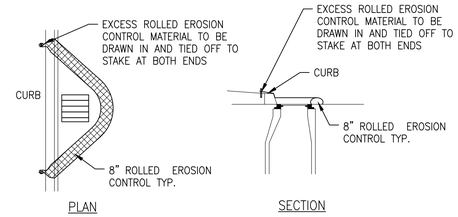
REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



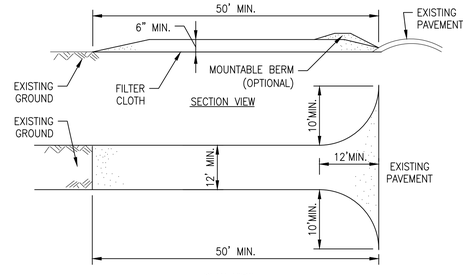
NOTES:

1. GENERAL AREA AROUND INLET ±6' FROM FILTER FABRIC MAY BE EXCAVATED TO 1' DEPTH AS WATER POOL SEDIMENT TRAP
2. SET SILT FENCE PROTECTION AROUND INLET FRAME OR AS CLOSE TO FRAME AS FEASIBLE FOR STABLE STAKING

2 FILTER FABRIC INLET PROTECTION
NOT TO SCALE



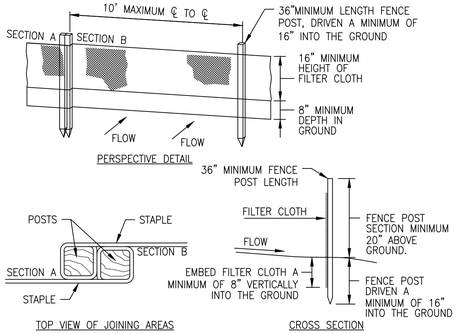
3 CATCH BASIN/MANHOLE INLET PROTECTION
NOT TO SCALE



NOTES:

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT, LENGTH – NOT LESS THAN 50 FEET AND THICKNESS – NOT LESS THAN SIX (6) INCHES.
2. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
3. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
8. STABILIZED CONSTRUCTION ENTRANCE'S SHALL BE PLACED SHALL BE COORDINATED WITH THE OWNER AND AT ALL CONSTRUCTION STAGING AREAS.

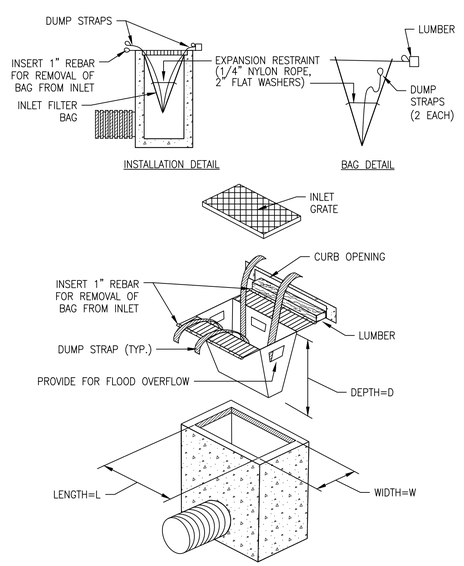
4 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:

1. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
2. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.
3. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
4. FENCE POSTS (FOR FABRIC UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS 2 X 2 WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES WILL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHT NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

5 SILT FENCE
NOT TO SCALE



6 INLET FILTER DETAILS
NOT TO SCALE

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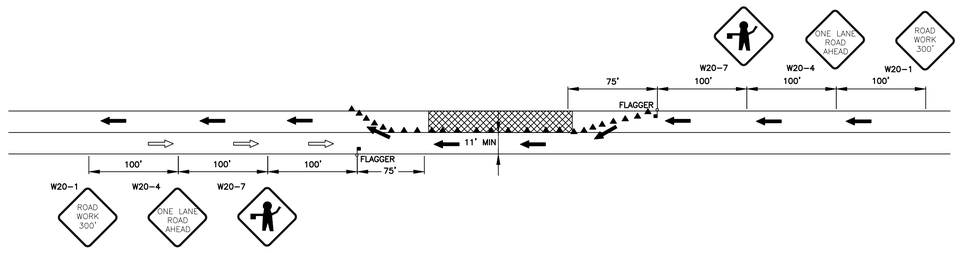
NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
EROSION AND SEDIMENT CONTROL DETAILS

CONTRACT NUMBER	SHEET NUMBER
24-528	C-11

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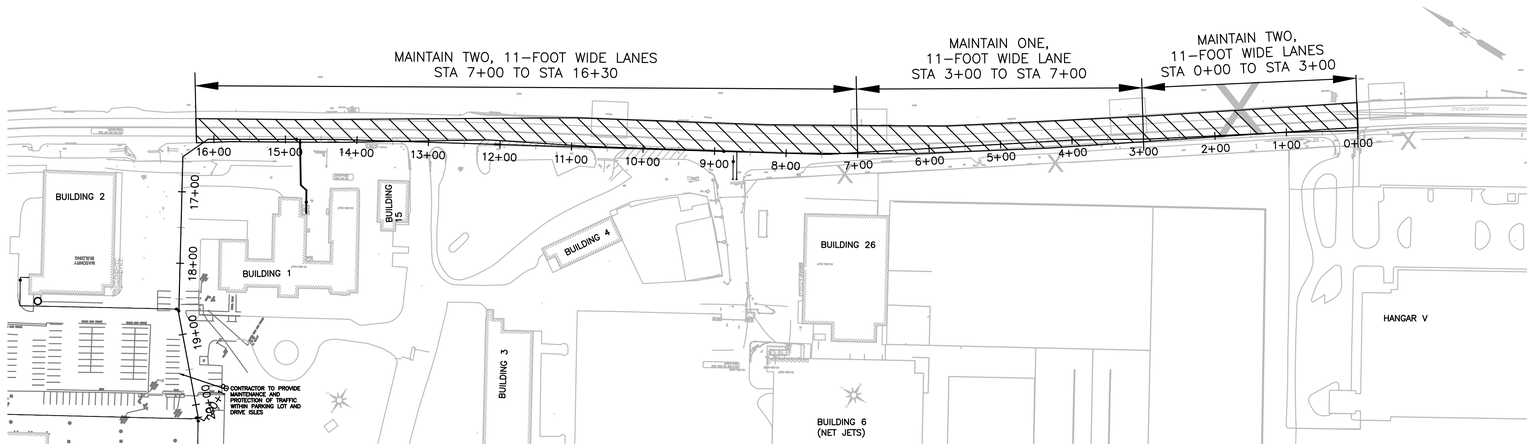
LEGEND

- WORK AREA
- FLAGGER
- TRAFFIC DIRECTION
- TRAFFIC DIRECTION (HALTED FOR ONCOMING TRAFFIC)
- TEMPORARY TRAFFIC BARREL



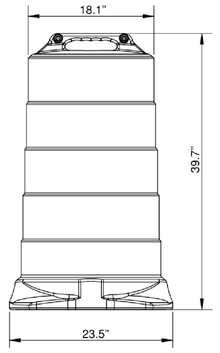
TYPICAL LANE CLOSURE (TWO - WAY TRAFFIC)

NOT TO SCALE



WORK AREA PLAN - AIRPORT ROAD

SCALE: 1" = 100'



TEMPORARY TRAFFIC BARREL

NOT TO SCALE

GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1) ALL MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND BE SUPPLEMENTED BY THE FEDERAL MUTCD AND THE NYS SUPPLEMENT AND PROVISIONS CONTAINED IN THE PLANS/OR PROPOSAL OF THIS CONTRACT.
2) THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING ALL SIGNS, BARRICADES, ETC. FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC PROPOSED WITHIN AIRPORT ROAD. THESE DRAWINGS SHALL BE SUBMITTED FOR THE ENGINEER'S APPROVAL PRIOR TO ANY ROAD CLOSINGS. ONLY AFTER DRAWING APPROVAL CAN THE CONTRACTOR SUBMIT A REQUEST FOR ROAD CLOSING 72 HOURS PRIOR TO THE ANTICIPATED CLOSURE. THESE SHOP DRAWINGS MUST BE IN FULL CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
3) THE TYPICAL DETAILS DEPICTED ON THIS DRAWING AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
4) THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER, IN WRITING, THE NAMES, ADDRESS, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THIS INFORMATION SHOULD BE PROVIDED TO THE COUNTY OF WESTCHESTER AND LOCAL POLICE.
5) CONTRACTOR TO PROVIDE CERTIFIED FLAGMEN DURING CONSTRUCTION.
6) PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR HIS WORKERS SHALL NOT BE PARKED ON PAVEMENT, SHOULDERS, OR ANY OTHER AREAS DEEMED BY THE ENGINEER TO BE HAZARDOUS LOCATIONS. NO CONTRACTOR EQUIPMENT, TRUCKS OR VEHICLES SHALL BE PARKED OUTSIDE OF WORK ZONE.
7) ALL TEMPORARY CONSTRUCTION SIGNS SHALL CONFORM TO THE NEW YORK. STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVLCES, LATEST EDITION. ALL CONSTRUCTION SIGNS SHALL BE SIZE "D"
8) THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENTS, CURBS; AND EXISTING SIDEWALKS WHEN IT IS NECESSARY FOR HIM TO MOVE HIS EQUIPMENT THROUGH AIRPORT ACCESS ROADWAYS. IN THIS REGARD, HE SHALL OBSERVE ALL THE RULES AND REGULATIONS AND DIRECTIONS OF THE AIRPORT MANAGER OR HIS REPRESENTATIVE. ALL DAMAGE INCURED DUE TO HIS DISREGARD FOR THESE PROVISIONS, SHALL BE RESTORED AT HIS SOLE COST AND EXPENSE.

ACTIVITY AREA:

1) THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2) WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP OR ARE IN CLOSE PROXIMITY THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS:

1) THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECTED TO APPROVAL BY ENGINEER.
2) ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED , STORED OR RESET, AS APPROVED BY THE ENGINEER, ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS AN/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3) SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4) THE DIMENSIONS OF THE WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE
5) DIMENSIONS SHALL BE APPROVED BY THE ENGINEER OR COUNTY.
6) ALL SIGNS SHOULD BE IN GOOD CONDITION MEETING ALL NECESSARY VISIBILITY AND REFLECTIVITY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SINGS.

PUBLIC ACCESS:

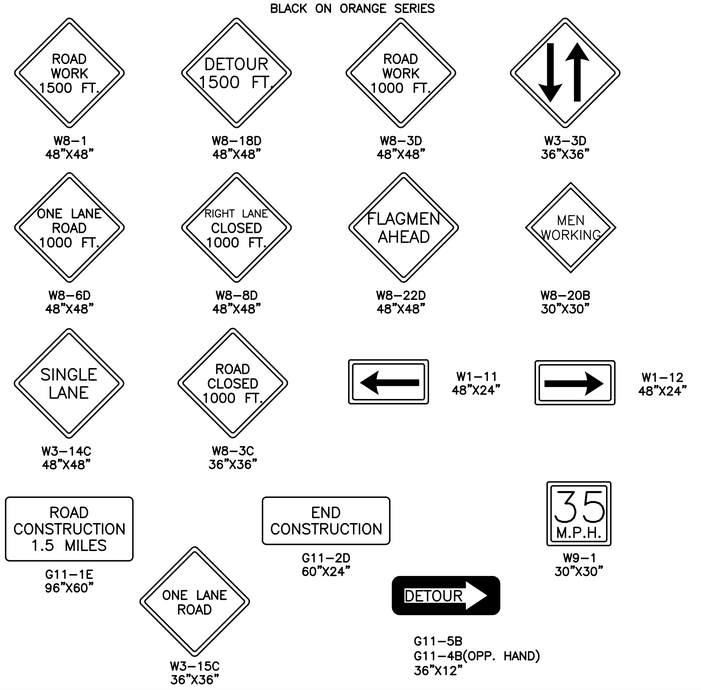
1) ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
2) A MINIMUM 11' OPEN LANE WIDTH FOR DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

LANE CLOSURES:

1) THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS , TO THE EXTENT CONDITIONS PERMIT.
2) THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES, THIS COULD INCLUDED INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.
3) THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OR CLOSURE OF AN EXISTING ROADWAY, SO THAT ENGINEER MAY NOTIFY THE APPROPRIATE JURISDICTION.

COMMONLY USED CONSTRUCTION WARNING SIGNS

BLACK ON ORANGE SERIES



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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
CIVIL
MAINTENANCE AND PROTECTION OF TRAFFIC PLAN

CONTRACT NUMBER	SHEET NUMBER
24-528	C-12

SHEET NO. 15 OF 22
SCALE: AS SHOWN
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REV. NO.

BID ITEM - ABOVE GROUND GAS METER RIG ASSEMBLY

WORK SPECIFIED INCLUDES CONCRETE PAD, UNDERGROUND / ABOVEGROUND PIPE TRANSITION FITTING, ALL PIPING, FITTINGS, VALVES AND SPECIALTIES TO INSTALL GAS METER AND REGULATOR PER CON EDISON REQUIREMENTS COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL SPOOL PIPE OF ADEQUATE LENGTH FOR METER INSTALLATION. SPOOL PIECE SHALL BE CAPPED. UPON RECEIPT OF GAS METER FROM CON EDISON, TEMPORARY SPOOL PIECE SHALL BE REMOVED / MODIFIED AS REQUIRED FOR CONNECTIONS TO METER.

BID ITEM - BUILDING 10 GAS PIPING CONNECTION TO NEW BURNER EQUIPMENT

WORK SPECIFIED INCLUDES ALL PIPING, FITTINGS, VALVES AND SPECIALTIES FROM THE CAPPED CONNECTION AFTER THE GAS METER TO THE NEW BURNER INSIDE THE BOILER ROOM. WORK SPECIFIED ALSO INCLUDES NEW POWER FLAME BURNER MODEL CR2-G-20B, START UP AND COMMISSIONING OF NEW BURNER AND EXISTING BOILER BY A FACTORY AUTHORIZED REPRESENTATIVE, AND ACTIVATION OF GAS SERVICE IN ACCORDANCE WITH CON EDISON.

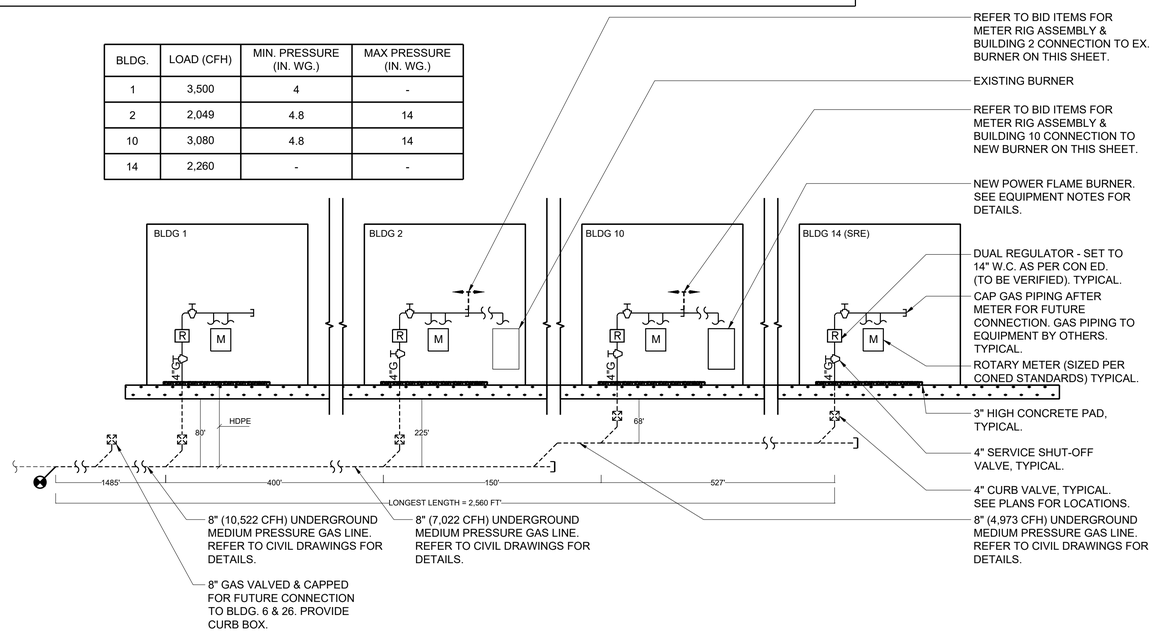
EQUIPMENT NOTES:

1. GAS BURNER: SHALL BE POWER FLAME MODEL C2-G-20B GAS BURNER, 3080 MBH GAS. PROVIDE THE FOLLOWING FEATURES & OPTIONS.
   - SINGLE POINT EXTERNAL POWER CONNECTION AT THE BURNER SHALL BE 230V/1/60HZ, 21 MCA, 28.5 MOCP, WITH SINGLE POINT FACTORY DISCONNECT SWITCH, MOTOR STARTERS, CIRCUIT BREAKERS.
   - 1-1/2 HP BLOWER MOTOR.
   - 120V CONTROL TRANSFORMER.
   - INTEGRAL BURNER PANELS.
   - INTERLOCKS FOR BREAK GLASS STATION.
   - FRESH AIR DAMPER
   - REMOTE ALARM.
   - SIEMENS VENT-LESS TYPE GAS TRAIN, CSD-1 COMPLIANT.
   - FACTORY REQUIRED STARTUP BY AN AUTHORIZED REPRESENTATIVE.

BID ITEM - BUILDING 2 GAS PIPING CONNECTION TO EXISTING BURNER EQUIPMENT

WORK SPECIFIED INCLUDES ALL PIPING, FITTINGS, VALVES AND SPECIALTIES FROM THE CAPPED CONNECTION AFTER THE GAS METER TO THE EXISTING BURNER INSIDE THE BOILER ROOM. WORK SPECIFIED ALSO INCLUDES START UP AND COMMISSIONING OF EXISTING BURNER / BOILER BY A FACTORY AUTHORIZED REPRESENTATIVE AND ACTIVATION OF GAS SERVICE IN ACCORDANCE WITH CON EDISON.

BLDG.	LOAD (CFH)	MIN. PRESSURE (IN. WG.)	MAX PRESSURE (IN. WG.)
1	3,500	4	-
2	2,049	4.8	14
10	3,080	4.8	14
14	2,260	-	-



NOTES:

1. GAS REGULATOR RIG SHALL BE BUILT IN ACCORDANCE WITH CON ED STANDARDS AND SPECIFICATIONS.
2. PIPING SCHEMATIC IS DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. PIPING SHALL BE CONFIRMED AND COORDINATED WITH CON EDISON PRIOR TO INSTALLATION. CON EDISON AND PLUMBER TO MEET BEFORE STARTING WORK. NO WORK SHALL BE COMPLETED WITHOUT REVIEW AND APPROVAL OF CON EDISON.
3. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
4. 150 PSIG AIR TEST REQUIRED.
5. WELDERS AFFIDAVIT IS REQUIRED.
6. NATURAL GAS PIPING SIZED IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE SECTION 402.4 PRESSURE DROP BASED ON PLASTIC AND SCH 40 STEEL PIPING AND MINIMUM & MAXIMUM DELIVERY PRESSURE OF 4 & 14 IN WC, RESPECTIVELY. ANY PIPE SUBSTITUTIONS RELATED TO SIZE OR MATERIAL SHALL BE SUBMITTED FOR REVIEW FOR ALLOWABLE PRESSURE DROP.
7. GAS PIPING AND EQUIPMENT SHALL BE FULLY COORDINATED WITH CON EDISON'S SERVICE DETERMINATION PRIOR TO FABRICATION OR INSTALLATION.
8. DEPTH OF BURIED GAS PIPING SHALL BE A MINIMUM OF 3 FEET. REFER TO CIVIL DRAWINGS FOR ACTUAL BURIED DEPTH FOR EACH SEGMENT OF PIPING.

1 PLUMBING GAS RISER DIAGRAM
SCALE: NONE

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
———	EX.	EXISTING TO REMAIN
—— G ——	G	GAS PIPING
———	NEW	NEW WORK
	POC	POINT OF CONNECTION
	-	PLUG VALVE
	-	GATE VALVE
	-	TEE DOWN
	-	ELBOW DOWN
	-	TEE UP
	-	ELBOW UP
	-	PIPE CAP
	-	STRAINER
	-	FLEXIBLE CONNECTION
	-	FLOW ARROW
	-	PRESSURE GAGE
	-	UNION
–	AFF	ABOVE FINISHED FLOOR
–	FOR	FUEL OIL RETURN
–	FOS	FUEL OIL SUPPLY

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
4. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
5. PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
6. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
7. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
8. BEFORE ANY EXCAVATION IS PERFORMED, THE CONTRACTOR SHALL HAVE AN UNDERGROUND UTILITY SURVEY AND MARK OUT PERFORMED AND SHALL HAVE A UTILITY MARK OUT OF IN THE AREA OF WORK. SUBMIT A COORDINATED UTILITY SITE PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE PROCEEDING WITH ANY WORK.
9. ALL ABOVEGROUND GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET. THE MARKING SHALL NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE APPLIANCE SERVED.
10. ALL WORK SHALL BE COORDINATED WITH THE UTILITY COMPANY AND FOLLOW CON ED PROCEDURES, INSTALLATION, INSPECTION, WITNESSING TESTS, ETC.

CON EDISON GENERAL NOTES

1. ALL IPS POLYETHYLENE CONNECTIONS SHALL BE BUTT FUSED.
2. LEAK TEST SHALL BE PERFORMED ON THE ENTIRE LENGTH OF GAS PIPE. LEAKS SHALL BE FIXED AND RETESTED TO MAKE SURE OF NO LEAKS PRIOR TO BACKFILL.
3. ALL STEEL PIPE AND FITTINGS SHALL BE PAINTED WITH 2 COATS OF HEAVY DUTY EPOXY PAINT FOR USE ON METAL SURFACES OUTDOORS (YELLOW).
4. THE TRACER WIRE SHOULD NOT FLOAT "SOMEWHERE IN THE TRENCH." THE TRACER WIRE WILL NOT BE WRAPPED AROUND THE PIPE IN A SPIRAL AS THIS IS A SOURCE OF SIGNAL DEGRADATION AND ADDS PHYSICAL STRESS TO THE WIRE. THE WIRE WILL BE PLACED ON TOP OF THE GAS PIPE AND WILL BE FASTENED IN PLACE AT APPROXIMATELY EVERY 8 TO 12 FEET TO SECURE IT IN PLACE WHEN THE TRENCH IS BACKFILLED. METALLIC FASTENERS ARE NOT TO BE USED. THE WIRE ON GAS LINES WILL NOT BE FASTENED TO THE TOP OF THE PIPE. INSTEAD, THE WIRE WILL BE FASTENED TO THE PIPE WITH THE USE OF ELECTRICAL PVC TAPE OR A SPACER TO KEEP THE WIRE AT A SET DISTANCE FROM THE PIPE.
5. INSTALL WARNING TAPE AT LEAST 12" ABOVE GAS PIPE.
6. CONTRACTOR MUST INSTALL PRESSURE REGULATOR / VENT ACCORDING TO CON ED STANDARDS.

CON EDISON SERVICE CODE & REQUIREMENTS

TRENCHING AND BACKFILLING:

ALL PIPING WILL BE INSTALLED AS FOLLOWS:

1. THE MINIMUM COVER OVER THE TOP OF THE SERVICE SHALL BE 24-INCHES AND MAXIMUM 36-INCHES. VARIATIONS O THE MINIMUM OR MAXIMUM COVER REQUIRE PRIOR APPROVAL. IN ALL LOCATIONS WHERE THE MINIMUM COVER OF 24-INCHES CANNOT BE MAINTAINED, ADEQUATE STEEL PROTECTION PLATING MUST BE PROVIDED TO PREVENT DAMAGE TO THE SERVICE PIPE.
2. ALL SERVICE LINES SHALL BE INSTALLED WITH A CLEARANCE OF AT LEAST 4-INCHES FROM ANY SUBSURFACE STRUCTURE. A MINIMUM CLEARANCE OF 2-INCHES IS ACCEPTABLE, IF APPROVED BY THE CON EDISON PROJECT ENGINEER, IF THE SERVICE LINE IS PROPERLY PROTECTED BY PHENOLIC BOARD FROM THE OTHER STRUCTURE.
3. THE SERVICE PIPE SHALL BE LAID IN A TRENCH THAT IS PROPERLY PREPARED TO PROVIDE SUITABLE BEDDING FOR SUPPORT AND TO PREVENT SHIFTING, SAGGING OR DAMAGE TO THE PIPE OR COATINGS. "WARNING-BURIED HAS LINES BELOW", TAPE MUST BE INSTALLED AT A MINIMUM OF 1-FOOT ABOVE THE TOP OF THE SERVICE PIPE.
4. BACKFILL SHALL BE SAND.

PLASTIC SERVICE PIPE:

WHEN PLASTIC SERVICE PIPE IS REQUIRED, THE PLASTIC SERVICE PIPE WILL BE INSTALLED AS FOLLOWS:

1. ON OUTDOOR METER SETS FOR MULTI-DWELLING RESIDENTIAL / COMMERCIAL / INDUSTRIAL CUSTOMERS, INSTALL AN APPROVED ANODE LESS METER RISER AND SUPPORT BRACKET. IF ANODE LESS METER RISER IS NOT AVAILABLE IN THE SIZE REQUIRED, INSTALL STANDARD APPROVED COATED STEEL RISER WITH ANODE.
2. PLASTIC PIPE SHALL BE INSTALLED IN A MANNER AS TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION.
3. JOINTS SHALL BE MADE ONLY BY INSTALLERS QUALIFIED UNDER THE APPROVED CON EDISON PROCEDURES.
4. INSTALL A TRACER WIRE #14, (RED INSULATED COPPER) FROM ONE FOOT ABOVE GROUND, TAPED TO THE METER RISER AND ALONG THE LENGTH OF THE SERVICE PIPE TO A POINT ONE FOOT BEYOND THE INSTALLATION. THE WIRE MUST NOT BE ELECTRICALLY CONNECTED (BONDED) TO ANY METALLIC PIPE OF STRUCTURE.
5. ANY JOINT MADE BY A QUALIFIED INSTALLER OTHER THAN CON EDISON PERSONNEL MUST BE INSPECTED BY CON EDISON PRIOR TO BACKFILLING. CON EDISON RESERVES THE RIGHT TO INSPECT FABRICATED JOINTS MADE.
6. PLASTIC PIPE SHALL NOT BE SUBJECTED TO STRESSES CAUSED BY SHORT BENDS OR DEFLECTIONS.

TEST PRESSURE AND DURATION:

THE TEST PRESSURE AND DURATION SHALL BE AS FOLLOWS:

A. FOR CUSTOMER METER PIPING INSIDE BUILDINGS IN NEW YORK CITY, AND ALL CUSTOMER SERVICE AND METER PIPING INSIDE AND OUTSIDE OF BUILDINGS IN WESTCHESTER COUNTY.

MAXIMUM PRESSURE UTILIZATION	TEST PRESSURE	TEST DURATION
LESS THAN 125 PSIG	90 PSIG OR ONE AND A HALF TIMES THE MAXIMUM OPERATING PRESSURE OR WHICHEVER IS GREATER	2-INCHES AND SMALLER: 15 MINUTES
GREATER THAN 125 PSIG	90 PSIG OR ONE AND A HALF TIMES THE MAXIMUM OPERATING PRESSURE OR WHICHEVER IS GREATER	2-INCHES AND SMALLER: 2 HOURS

NOTE: THE ABOVE CHARTS DO NOT REPRESENT TEST PRESSURE FOR DISTRIBUTION PIPING AFTER THE METER, WHICH IS NOT UNDER THE JURISDICTION OF CON EDISON, BUT THAT OF THE GOVERNING AUTHORITIES/CODES. (**** DO NOT INCLUDE PRESSURE REGULATOR IN PIPE PRESSURE TEST ****). REFER TO CURRENT EDITION OF THE FUEL GAS CODE FOR PRESSURE TESTING REQUIREMENTS.

NOTE: ALL PIPING VALVES, AND RELATED EQUIPMENT SHALL BE INSTALLED PER PUBLISHED STANDARDS AND REQUIREMENTS OF CON EDISON INC.

LEAKAGE TESTING:

ALL OF THE CUSTOMER'S SERVICE AND METER PIPING SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. ALL UNDERGROUND PIPING SHALL BE BLOCKED, SUPPORTED, AND HELD IN PLACE WITH SAND BAGS FOR THE LEAKAGE TEST AND COATING INSPECTION.
2. THE TEST MEDIUM SHALL BE EITHER AIR, OR AN INERT GAS, FOR TEST PRESSURE UP TO 150 PSIG. WATER MAY ALSO BE USED FOR TEST PRESSURE EXCEEDING 100 PSIG. THE PRESSURE SOURCE SHALL BE ISOLATED FROM THE PIPING PRIOR TO THE START OF THE TEST.
3. ALL JOINTS, FITTINGS, VALVES, AND OTHER POTENTIAL LEAK SOURCES SHALL BE CHECKED FOR LEAKAGE DURING THE PRESSURE TEST WITH A LEAK DETECTING SOLUTION.
4. TEST DURATION TIMES ARE TO BE MEASURED AFTER THE TEST MEDIUM HAS STABILIZED. PRESSURE READINGS SHALL BE PERFORMED USING A CALIBRATED PRESSURE GAUGE HAVING MAXIMUM INCREMENTS OF TWO (2) PSI.

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RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
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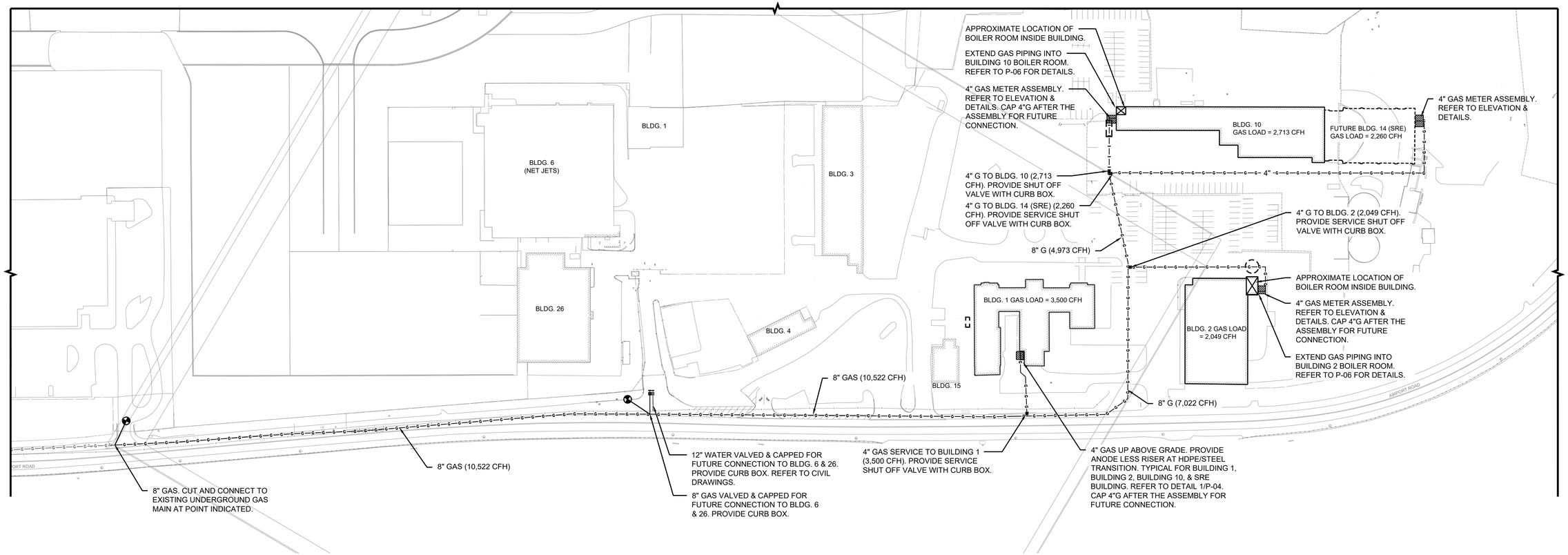
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

CONTRACT NUMBER 24-528
SHEET NUMBER P-01
SHEET NO. 16 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-156-0
REV. NO.



1 PLUMBING SITE PLAN

SCALE: 1" = 80'-0"

NOTE: UNDERGROUND UTILITY PIPING SHOWN FOR REFERENCE. REFER TO CIVIL DRAWINGS FOR DETAILS

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☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
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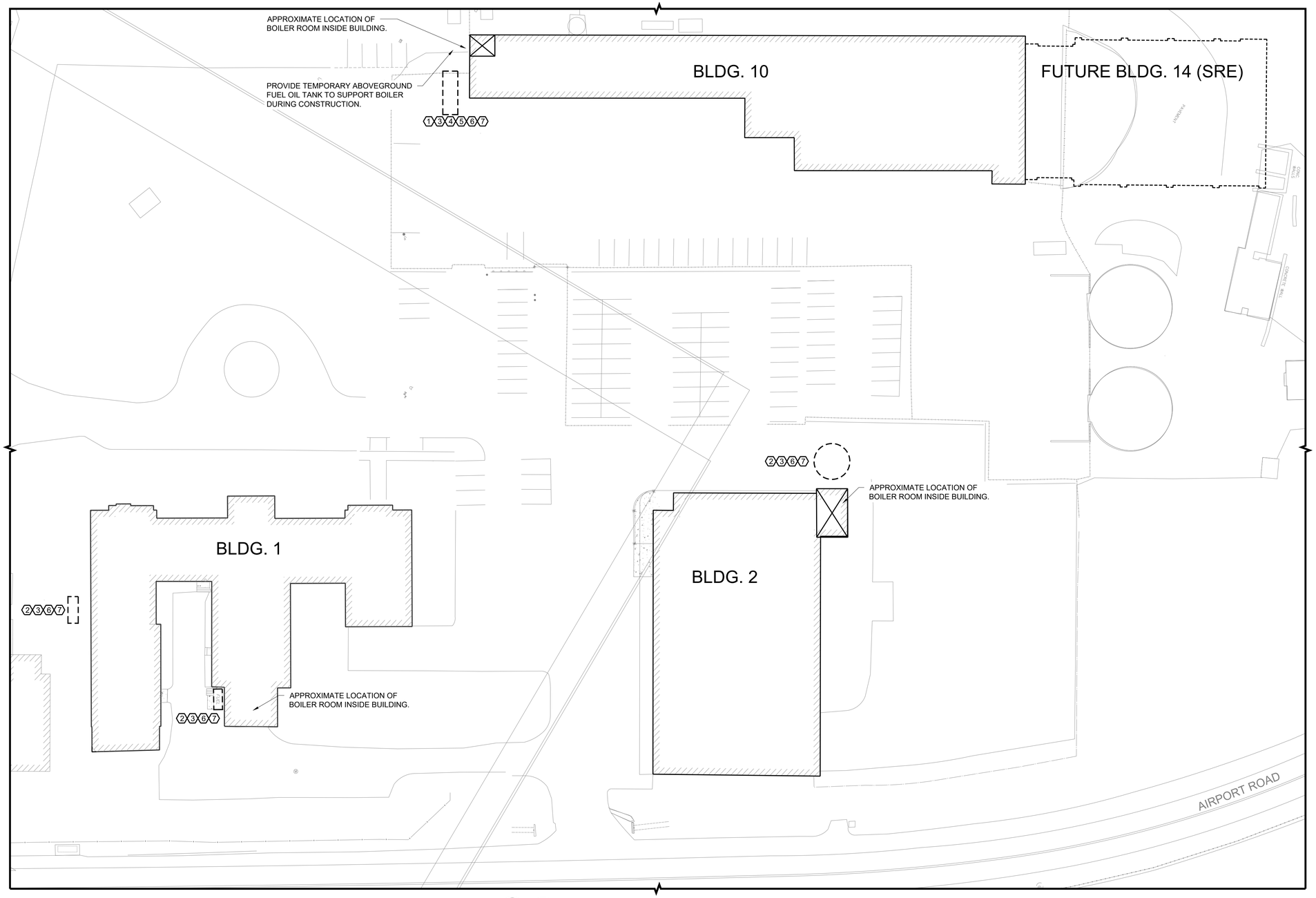
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
SITE PLAN

CONTRACT NUMBER	SHEET NUMBER
24-528	P-02

SHEET NO. 17 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-157-0
REV. NO.



1 PLUMBING SITE DEMOLITION PLAN
SCALE: 1" = 30'-0"

BID ITEM - REMOVAL OF UNDERGROUND FUEL OIL TANK (UST):

THE WORK SPECIFIED FOR THE REMOVAL OF ONE (1) 2,000-GALLON UNDERGROUND FUEL OIL STORAGE TANK SHALL INCLUDE:

a. RESEARCH INTO EXISTING RECORD FILES, PERMITS, ETC.
b. FILE FOR ALL REQUIRED PERMITS WITH WCDOH AND NYSDEC. A SEPARATE PERMIT IS REQUIRED FOR EACH INDIVIDUAL TANK REMOVAL.
c. UTILITY MARK-OUT.
d. PRE/POST-CONSTRUCTION SOIL SAMPLING AND LAB ANAYSES.
e. SAW-CUT / BREAKUP THE CONCRETE ABOVE THE TANKS.
f. EXCAVATE TO EXPOSE THE TOP OF THE TANKS.
g. DISCONNECT AND VACUUM OUT ANY REMAINING PRODUCT / SLUDGE FROM THE TANKS, FUEL OIL SUPPLY AND RETURN LINES.
h. CLEAN AND VAPOR FREE THE USTs.
i. REMOVE AND DISPOSE OF PETROLEUM CONTAMINATED LIQUID, SLUDGE, AND WATER.
j. EXCAVATE AROUND THE TANK AND SET ASIDE CLEAN MATERIAL FOR USE IN BACKFILLING THE EXCAVATION.
k. CAREFULLY REMOVE AND DISPOSE OF THE TANKS AND DEMOLISH FUEL PIPING COMPLETE TO EXISTING BOILER.
l. UPON REMOVAL OF THE UNDERGROUND STORAGE TANK, IF THERE IS NO EVIDENCE OF A RELEASE OF PETROLEUM INTO THE ENVIRONMENT, BACKFILL EXCAVATION WITH THE SET ASIDE MATERIAL (IF POSSIBLE) AS WELL AS WITH DOT APPROVED RECYCLED ITEM #4 (COMPACTED AT 12" LIFTS) TO APPROXIMATELY 6" BELOW GRADE.
m. FINISH WITH 4" BINDER AND 2" TOP COURSE ASPHALT.
n. DISCONNECT AND REMOVE THE TANK MONITORING SYSTEM(S) AND ASSOCIATED COMPONENTS.
o. DISPOSE OF CONCRETE / ASPHALT.
p. PROVIDE DOCUMENTATION FOR ALL MATERIAL DISPOSED.
q. CLOSURE REPORT FOR USTs.
r. CONTAMINATED SOIL AND / OR GROUNDWATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE BID ITEM.

BID ITEM - REMOVAL OF ABOVEGROUND FUEL OIL TANK (AST):

THE WORK SPECIFIED FOR THE REMOVAL OF ONE (1) 2,000-GALLON UNDERGROUND FUEL OIL STORAGE TANK SHALL INCLUDE:

a. RESEARCH INTO EXISTING RECORD FILES, PERMITS, ETC.
b. FILE FOR ALL REQUIRED PERMITS WITH WCDOH AND NYSDEC. A SEPARATE PERMIT IS REQUIRED FOR EACH INDIVIDUAL TANK REMOVAL.
c. UTILITY MARK-OUT.
d. DISCONNECT AND VACUUM OUT ANY REMAINING PRODUCT / SLUDGE FROM THE TANKS, FUEL OIL SUPPLY AND RETURN LINES.
e. CLEAN AND VAPOR FREE THE ASTs.
f. REMOVE AND DISPOSE OF PETROLEUM CONTAMINATED LIQUID, SLUDGE, AND WATER.
g. CAREFULLY REMOVE AND DISPOSE OF THE TANKS AND DEMOLISH FUEL PIPING COMPLETE TO EXISTING BOILER.
h. DISCONNECT AND REMOVE THE TANK MONITORING SYSTEM(S) AND ASSOCIATED COMPONENTS.
i. EXISTING CONCRETE PAD TO REMAIN.
j. PROVIDE DOCUMENTATION FOR ALL MATERIAL DISPOSED.
k. CLOSURE REPORT FOR ASTs.

DEMOLITION KEY NOTES

1. DEMOLISH 2,000 GALLON UNDERGROUND FUEL OIL STORAGE TANK. DEMOLISH ALL F.O.S.&R LINES, FILL AND VENT LINES, MANWAY, FILL BOXES, AND ALL SPECIALTIES COMPLETE. VERIFY EXACT LOCATION OF TANK IN FIELD.
2. DEMOLISH 2,000 GALLON ABOVEGROUND STORAGE TANK. DEMOLISH F.O.S.&R LINES, SUPPORTS/STANDS, AND ALL SPECIALTIES COMPLETE.
3. EXISTING FUEL OIL TANK SHALL BE INTERNALLY CLEANED, IN ACCORDANCE WITH NYS DEC AND WC DOH REGULATIONS. DISPOSE OF EXISTING OIL & SLUDGE IN A CODE COMPLIANT MANNER.
4. CUT HOLES IN TANK BOTTOM AND PERFORM SOIL SAMPLING AS PER DEP/DEC GUIDELINES. TAKE A MINIMUM OF (5) SAMPLES FROM ALL SIDES AND BOTTOM.
5. PROVIDE CLEAN BACKFILL IN AREA OF REMOVAL AND RE-GRADE WITH TOP SOIL.
6. FILE CLOSE-OUT OF TANK WITH NYS DEC.
7. DEMOLISH ALL FOS+R PIPING FROM TANK TO BURNER COMPLETE, INCLUDING ALL VALVES, SPECIALTIES, AND ACCESSORIES. PATCH ALL EXTERIOR PIPE OPENINGS TO MATCH EXISTING CONDITIONS AND SEAL WATERTIGHT.

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RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
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CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
FUEL OIL TANK DEMOLITION PLAN

CONTRACT NUMBER	SHEET NUMBER
24-528	P-03

SHEET NO. 18 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-158-0
REV. NO.

I-17118

REVISIONS

0 — DRAWING ISSUED ON 4/06/06 — RAJ 4/06/06

1 — G. Ludwig 6/06/11 — ADDED EQUIV. LENGTH FOR 4" 90° ELBOW. — D.J. 6/06/11

2 — G. Ludwig 3/16/12 — ADDED DETAIL FOR OUTDOOR REGULATOR — H.D. 2/24/12

3 — G. Ludwig 10/03/12 — ADDED BB3B TO TABLE 1. — D.J. 10/03/12

4 — G. Ludwig 2/12/15 — REVISED NOTE 2. ADDED NOTES 3 & 6. ADDED TABLE 2 — B.E. 1/22/15

5 — G. Ludwig 2/10/20 — ADDED NOTE 7, UPDATED BILL OF MATERIAL TO REFERENCE NOTE 7. — C.S. 2/10/20

METERING SPECIFICATIONS AND PROCEDURES VOLUME #3

YELLOW BOOK

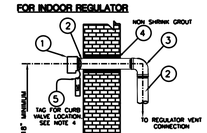
BILL OF MATERIAL

ITEM NO.	DESCRIPTION	GAS REGULATOR SIZES – INLET 1" ¾" 1¼"	INLET 1" ¾" 1¼"	X OUTLET X VENT 1" ¾" 1¼"	C-RR
1	PECK VENT CAP OR 90° ELBOW WITH SCREEN (SEE NOTE 7)	¾"	1"	3"	SPEC / DWG.NO.
2	NIPPLE, STD. BLACK STEEL, THREADED.	¾"	1"	3"	ANSI B2
3	ELBOW 90°,BLACK MALLEABLE IRON,150 LB.	¾"	1"	3"	ASME B16.3
4	NON-Shrink GROUT				
5	CURB VALVE LOCATION TAG				

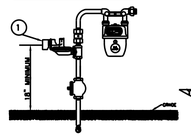
TABLE 1

LENGTH	GAS REGULATOR SIZES – INLET 1" ¾"	1" ¾" 1¼"	X OUTLET X VENT 1" ¾" 1¼"	FISHER GAS REGULATOR*
			2" x 2" - 1838 2" x 2" - 1838	99, 133, 1098 EZR
**UP TO 20'	¾"	1"	3"	2"
**21' TO 40'	1"	1½"	4"	2"
OVER 40'	CONTACT GAS MEASUREMENT			2"

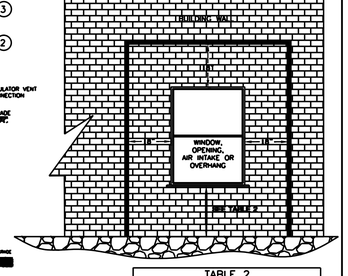
FOR INDOOR REGULATOR



FOR OUTDOOR REGULATOR



REGULATOR VENT LOCATION DIAGRAM



VENT REQUIREMENT NOTES

1) VENT PIPE MUST:
* BE GAS TIGHT.
* BE PROPERLY SUPPORTED.
* TERMINATE OUTDOORS WITH A VENT CAP FACING DOWNWARD.
* BE SIZED ACCORDING TO TABLE 1. FOR VENTS LONGER THAN 20 EQUIVALENT FEET, THE ENTIRE LENGTH OF VENT PIPE SHALL BE THE LARGER PIPE SIZE.

2) VENT OUTLET (SEE REGULATOR VENT LOCATION DIAGRAM):
* VENT OUTLETS DIRECTLY UNDER A WINDOW, OVERHANG, OPENING, AWNING OR AIR INTAKE SHALL MEET THE MINIMUM DISTANCES IN TABLE 2.
* IF THE VENT OULET IS LOWER THAN OR ADJACENT TO ANY OPENING, IT MUST BE LATERALLY OFFSET BY A MINIMUM OF 18" FROM THE NEAREST VERTICAL LINE OF ANY OPENING, OR PROJECTION THAT COULD ALLOW VENTED GAS TO ENTER THE BUILDING OR ACCUMULATE.
* IF THE VENT OUTLET CANNOT BE LATERALLY OFFSET BY AT LEAST OF 18", IT MUST DISCHARGE ABOVE AND AWAY FROM ANY BUILDING OPENING, OVERHANG, PROJECTION OR POWERED INTAKE BY AT LEAST 18".

3) VENT CAP SHALL:
* BE A WEATHER AND INSECT RESISTANT FITTING, E.G., A PECK VENT.
* NOT BE COVERED IN ANY WAY THAT WOULD PREVENT THE FREE FLOW TO THE OUTSIDE.

4) INSTALL TAG (PER G-8028) TO IDENTIFY THE CURB VALVE LOCATION. IN NYC IF THE VENT CAP USED IS NOT MARKED " GAS" OR " GAS VENT", THEN THIS WORDING MUST BE INCLUDED ON THE CURB VALVE LOCATION TAG, ANOTHER TAG, OR A SIGN ON THE BUILDING (SEE C-111838).

5) FOR RUNS OF VENT PIPING EXCEEDING 10 LINEAR FEET, A COMPRESSION COUPLING OR 150 LB BLACK IRON UNION THE SIZE OF THE VENT PIPE SHALL BE INSTALLED WITHIN 2 FEET OF THE REGULATOR.

6) IF A SUITABLE VENT OUTLET LOCATION MEETING THE REQUIREMENTS OF THIS DRAWING CANNOT BE FOUND, CONTACT THE MANAGER OF GAS MEASUREMENT FOR DETERMINATION OF A COMPLIANT LOCATION WHERE THERE IS NO RISK TO PUBLIC SAFETY.

7) IN SPECIFIED FLOOD PRONE AREAS, VENT LINE PROTECTORS (VLP) MAY BE INSTALLED IN LIEU OF PECK VENTS. VLPS ARE INSTALLED IN AREAS SPECIFIED IN G-8217 AND INSTALLED IN ACCORDANCE WITH G-699

TABLE 2

TYPE OF OPENING	GROUP 1 REGULATORS	GROUP 2 REGULATORS
WINDOW	6 FT	25 FT
OVERHANG (24" OR LESS)	6 FT	25 FT
NORMALLY CLOSED OPENING	6 FT	25 FT
OPEN OR VENTED AWNING	6 FT	25 FT
CLOSED AWNING (UNVENTED)	NOT PLIED	NOT ALLOWED
NORMALLY OPEN AWNING	NOT ALLOWED	NOT ALLOWED
AIR INTAKE	NOT ALLOWED	NOT ALLOWED

GROUP 1 REGULATORS: 1" x 1" x 8-½"; 1" x 1-1/4" x 1"; FISHER (OR EQUIVALENT). 99, 133, 1098, EZR

GROUP 2 REGULATORS: 2" x 2" x 2", 2" x 2" x 2-1/2"; 2" x 4" x 2-1/2"

** CONSIDER EACH 90° ELBOW TO BE EQUIVALENT TO STRAIGHT PIPE LENGTHS AS FOLLOWS:

¾" = 2', 1" = 2', 1¼" = 3', 4" = 10'

*CUSTOMER TO INSTALL 2" VENT PIPING FROM OUTDOOR VENT CAP ALONG INSIDE WALL TO A POINT WITHIN 2 FEET OF EACH REGULATOR RUN. COMPANY TO MAKE FINAL CONNECTION TO VENT LINE.

REGULATOR VENT INSTALLATION

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 2/08/05 — DWG. NO. EO- 17118 — REV. 5
LAST REV. 2/10/20

1 CON EDISON GAS REGULATOR VENT INSTALLATION DETAIL

SCALE: NONE

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LATEST CON ED REQUIREMENTS SHOULD AN UPDATED DETAIL BE PUBLISHED.

8-11591-03

REVISIONS

5 — [illegible] 11/25/08 — REORIENTED TO AUTOCAD CNTD. TITLE, PRESSURE WEIGHT, TABLE I ADDED NOTE N & I C.M. 6/21/06 — Revised 9/14/06

6 — UPDATED DWG. REVISED NOTES, ADDED CAP TABLE I NOTE 3 & DETAIL 2 NO 27-10" @ T.G.H. — Rev. 11/29/06

7 — G. Ludwig 11/29/06 — REVISED TABLE I FOR CLARITY ADDED 23M INFO REVISED TITLE

8 — C.P. 11/21/06 — 4/24/2009 9/1/09 — REPLACED 23000RTC WITH 23000R FOR LOW PRESSURE INSTALLATIONS

9 — D.R.J. 8/24/09 — G. Ludwig 3/1/12 — ADDED ITEMS 17 & 18 AND NOTE I. REVISED NOTE K.

10 — D.R.J. 3/1/12 — G. Ludwig 9/19/14 — DELETED DETAIL 'A'. ADDED REFERENCE TO DWG 502163 IN PLAN. CORRECTED DIMS. OF ITEM 4 IN BILL OF MAT'LS. ADDED NOTE M. ADDED REFERENCE TO YELLOW BOOK.

11 — D.J. 6/27/14 — G. Ludwig 4/14/15 — ADDED DETAIL FOR 23000R METER. REVISED BILL OF MATERIAL. REVISED NOTE F. ADDED NOTES N, O, P, AND Q. REVISED DIM "D". DELETED ITEM 11 AND NOTE "L". ADDED START DATE FOR "Y" STRAINER INSTALLATION.

12 — B.E. 3/10/15 — G. Ludwig 9/29/16 — REVISED ITEM #19

13 — D.J. 5/30/17 — G. Ludwig 3/14/18 — REVISED TABLE I REMOVED COLUMN C ADJUSTED TABLE. REVISED NOTE M. REMOVED BOMPSTARS

14 — B.V. 9/17/19 — 4/15/20 4/12/19 — G. Ludwig 9/21/2020 — ADDED DETAIL 1 & DETAIL 2. ADDED ITEMS 27 & 28.

15 — D.G. 7/21/2020 — G. Ludwig 4/13/2021 — REVISED BACK TO REVISION NO. 13.

16 — D.G. 4/13/2021 — G. Ludwig 08/17/2021 — ADDED DETAIL 1 & DETAIL 2. ADDED ITEMS 27, 28 & NOTES R AND S.

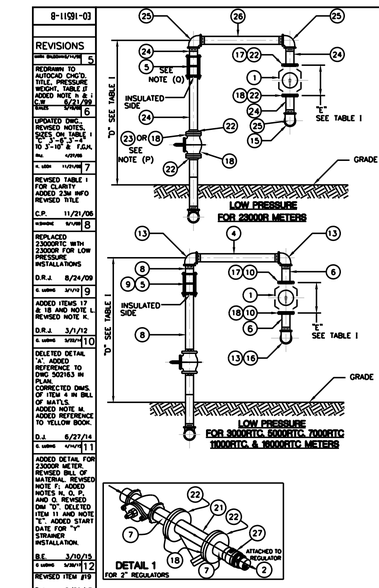
17 — D.G. 08/17/2021 — G. Ludwig 10/27/2021 — DELETED ITEM 27 ITEM 28 BECAME ITEM 27 ADDED SIZES FOR ITEM 12 ITEM 16 DELETED 4"x3"

18 — DELETED DETAIL 2 — R.R. 05/29/2022 — G. Ludwig 01/13/2023 — REVISED TA VALVE ITEM NUMBER ON ELEVATION DETAIL.

D.J 01/13/2023

METERING SPECIFICATIONS AND PROCEDURES VOLUME #3

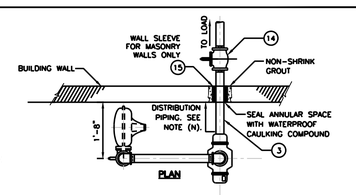
YELLOW BOOK



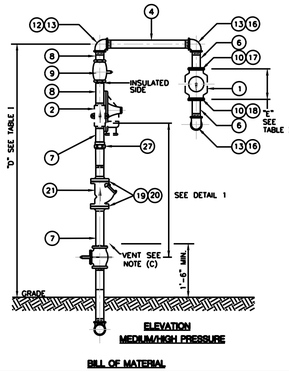
LOW PRESSURE
FOR 23000R METERS

LOW PRESSURE
FOR 3000RTC, 5000RTC, 7000RTC
11000RTC, & 16000RTC METERS

DETAIL 1
FOR 2" REGULATORS



PLAN



ELEVATION
MEDIUM/HIGH PRESSURE

TABLE I

METER CLASS	METER WEIGHT (TC OR TCD)	METER WEIGHT (LBS)	DIM. "D"	DIM. "L"
3000RTC	3M175TC/RM3000TC	28		6.75"
5000RTC	5M175TC/RM5000TC	38		6.75"
7000RTC	7M175TC/RM7000TC	50	42" TO 70"	9.5"
11000RTC	11M175TC/RM11000TC	65		9.5"
16000RTC	16M175TC/RM16000TC	86		9.5"
23000RTC	RM23000TC (HIGH PRESSURE ONLY)	84		9.5"
23000R	23M175 (LOW PRESSURE ONLY)	205		16"

NOTES:
A – ALL PIPING SHALL BE INSTALLED PLUMB AND LEVEL.
B – ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER EXCEPT FOR THE SERVICE REGULATOR WHICH SHALL BE FURNISHED BY THE COMPANY FOR INSTALLATION BY THE CUSTOMER. THE COMPANY SHALL FURNISH AND GASKETS WHICH ARE FURNISHED AND INSTALLED BY THE CUSTOMER.
C – FOR VENT REQUIREMENTS REFER TO EO-17118
D – DO NOT INCLUDE THE REGULATOR IN ANY PIPING PRESSURE TEST.
E – (BLANK)
F – EXCEPT FOR WHERE A COMPRESSION COUPLING IS CALLED FOR ON THE DRAWING, ALL METER PIPING (PIPING FROM THE HEAD OF SERVICE VALVE TO METER OUTLET) GREATER THAN 4 INCHES IN DIAMETER SHALL BE BUTT WELDED. ELEVATED DELIVERY PRESSURE METER PIPING SHALL BE RADIOGRAPHED.
G – PIPING MUST BE LEFT BLANKED BY CONTRACTOR PRIOR TO METER INSTALLATION.
H – INSTALLATIONS WITH VOLUME CORRECTOR MUST HAVE 24 INCHES MINIMUM CLEARANCE ON TOP OF METER PIPING.
I – FOR DOWNSTREAM PIPING BELOW GRADE REFER TO SPEC. G-8205
J – ALL PIPING AND FITTINGS SHALL BE PAINTED WITH PAINT LISTED IN G-704 APPROVED FOR USE ON METAL SURFACES OUTDOORS.
K – INSTALL PIPE SUPPORTS AS NEEDED. REFER TO SPEC. G-695.
L – GASKET MATERIAL SHALL BE GARLOCK 3000 (1/16" THICK). GASKET STRAINER TO CONTAIN A 60 MESH STAINLESS STEEL SCREEN.
M – IF THERE IS ANY RISK OF VEHICLE DAMAGE, METER/REGULATOR BUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH G-704
N – DISTRIBUTION PIPING EXCLUDING METER PIPING MUST MEET ALL WELDING SPECIAL INSPECTION, AND RADIOGRAPHY REQUIREMENTS OF NYC BUILDING CODE OR OTHER AUTHORITY HAVING JURISDICTION.
O – FOR CON EDISON LOW PRESSURE SYSTEMS, AN INSULATED COMPRESSION COUPLING OR FLANGE INSULATING KIT AS APPROPRIATE SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE HEAD OF SERVICE VALVE. FOR CON EDISON MEDIUM AND HIGH PRESSURE SYSTEMS, AN INSULATED COMPRESSION COUPLING OR FLANGE INSULATING KIT SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE REGULATOR.
P – FOR INSTALLATIONS HAVING BRANCH LINES THAT ARE SEPARATELY METERED AND/OR SEPARATELY REGULATED, REFER TO SPEC G-703 FOR PIPE SIZING REQUIREMENTS.
Q – INSTALL EITHER ITEM 5 OR ITEM 23.
R – INSTALL TA VALVE SUCH THAT FLOW ARROW ON THE DEVICE POINTS TO THE DIRECTION OF GAS FLOW.
S – HEAT SENSOR ON 3" HOOD SHOULD BE FREE OF ANY FORM OF COATING.

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	DWG. OR SPEC NO.	LOW PRESSURE INSTALLATION SIZE 3000RTC	5000RTC 7000RTC	11000RTC 16000RTC	23000R	HIGH PRESSURE INSTALLATION SIZE 3000RTC	5000RTC 7000RTC	11000RTC 16000RTC 23000RTC
1	METER CLASS (ALL TC)	PROC G-4B	———	———	———	———	1"x¾" TYP.	1"x¾" TYP.	1"x¾" TYP.
2	GAS SERVICE REGULATOR	———	———	———	———	———	———	———	———
3	PIPE, STEEL, SCH. 40 (THRD)	———	2.250"	3.250"	4.250"	———	2.250"	3.250"	4.250"
4	PIPE, STEEL, SCH. 40 (PBE)	———	2.250"	3.250"	4.250"	6"	2.250"	3.250"	4.250"
5	COMP. COUPLING INSULATED BOLTED	———	2"	3"	4"	———	2"	3"	4"
6	NIPPLE, STEEL, SCH. 40	———	2x2 1/2"	3x3"	4x4"	———	2x2 1/2"	3x3"	4x4"
7	NIPPLE, STEEL, SCH. 80	———	2"	3"	4"	———	2"	3"	4"
8	ELBOW, 90 DEG., 6" I.D. (W. PLUG)	———	2"	3"	4"	———	2"	3"	4"
9	FLANGE FORGED STL. FLAT FACE, THRD. 150#	ASME B16.5	2"	3"	4"	———	2"	3"	4"
10	(BLANK)	———	———	———	———	———	———	———	———
11	(BLANK)	———	———	———	———	———	———	———	———
12	ELBOW 90° REDUCING, MALLEABLE IRON 150#	ASME B16.3	———	———	———	———	2"x2"	3"x2"	4"x2"
13	ELBOW 90° WELD (FOR 150# GSR REG)	———	2"	3"	4"	———	2"	3"	4"
14	LUBRICATED PLUG VALVE (NON-MVB)	*	2"	3"	4"	6"	2"	3"	4"
15	90° ELBOW, SCH. 40 PVC	———	4"	6"	6"	8"	4"	6"	6"
16	ELBOW, 90 REDUCING, MALLEABLE IRON, 150 #	ASME B16.3	———	———	———	———	———	———	———
17	7/16" 150 # FULL FACE GASKET STRAINER (SEE NOTE L)	G-8220	2"	3"	4"	6"	2"	3"	4"
18	7/16" 150 # FULL FACE GASKET (SEE NOTE L)	———	2"	3"	4"	6"	2"	3"	4"
19	FLANGE FORGED STEEL, RAISED FACE, THRD. 150 #	ASME B16.5	———	———	———	———	2"	2"	2"
20	GASKET, RING, 150 #	———	———	———	———	———	2"	2"	2"
21	(BLANK)	———	———	———	———	———	2"	2"	2"
22	FLANGE FORGED STEEL, FLAT FACE, WELD, 150 #	ASME B16.5	———	———	———	6"	———	———	———
23	FLANGE INSULATING KIT (SIZE TO MATCH VALVE FLANGE)	*	———	———	———	6"	———	———	———
24	PIPE, STEEL, SCH. 80, MILLED, 1/2" TO SUIT	G-8107	———	———	———	6"	———	———	———
25	ELBOW, 90 DEG. STEEL, SCH. 40, MILLED, 150 #	ASME B16.5	———	———	———	6"	———	———	———
26	NIPPLE, STEEL, SCH. 40, WELDED, 300 LB.	G-8107	———	———	———	6"	———	———	———
27	2 INCH # 3 M NPT TA-VALVE (CLASS # 5700X # 3721917)	———	———	———	———	2"	2"	2"	2"

* SEE YELLOW BOOK

NOTE: "Y" STRAINER REQUIRED AFTER JULY 1, 2015.

INSTALLATION OF METER PIPING FOR CLASS 3000R-TC TO CLASS 23000R-TC ROTARY METERS - OUTDOORS

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 10/23/1981 — DWG. NO. EO-16511-B — REV. 18
LAST REV. 01/13/2023

2 CON EDISON GAS METER INSTALLATION DETAIL

SCALE: NONE

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LATEST CON ED REQUIREMENTS SHOULD AN UPDATED DETAIL BE PUBLISHED.

OLA consulting engineers
100 Summit Lake Drive, Valhalla, NY 10595
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NWCG00034.00

D&B ENGINEERS AND ARCHITECTS
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IN CHARGE OF RG
CHECKED BY CED
MADE BY JC

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

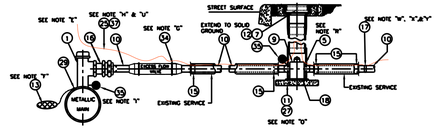
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
DETAILS

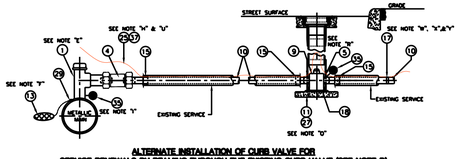
CONTRACT NUMBER 24-528 — SHEET NUMBER P-04
SHEET NO. 19 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-159-0 — REV. NO.

REVISIONS

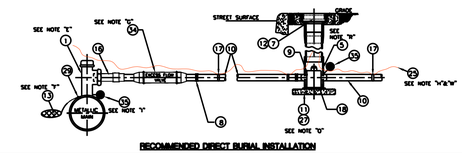
M. BALDWIN 8. DAN REDRAWN BY CAD. UPDATED DWG. REVISED NOTES. ADDED SHEET #4 OF 4	2
RAJ. 5/16/06 M. BALDWIN 7/27/06 REVISED DWG AND NOTES.	3
C.P. 6/23/06 M. BALDWIN 6/22/11 REVISED DRAWING AND NOTES.	4
D.J. 6/22/11 M. BALDWIN 9/13/16 REVISED DRAWING AND NOTES.	5
S.E. 9/15/16 M. BALDWIN 11/29/18 REVISED DRAWING. ADDED CALLOUT 'U', 'V', 'W', 'X' & 'Y'. ADDED BALDON #37 REMOVED STAB ENDS ON EXCESS FLOW VALVES	6
V.G./R.R. 11/29/18	



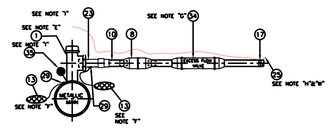
RECOMMENDED INSERTION INSTALLATION



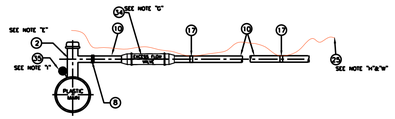
ALTERNATE INSTALLATION OF CURB VALVE FOR
SERVICE RENEWALS BY REAMING THROUGH THE EXISTING CURB VALVE (SEE NOTE D)



RECOMMENDED DIRECT BURIAL INSTALLATION



ALTERNATE TEE CONNECTION DIRECT BURIAL INSTALLATION



TYPICAL HP DIRECT BURIAL INSTALLATION

SEE ADDITIONAL SHEETS 2 OF 4 FOR NOTES OF THIS DRAWING & EO-8941-A INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING, AND SHEETS 3 & 4 FOR BILL OF MATERIALS.

CONST. STDS. VOLUME 2

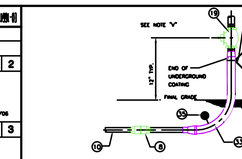
INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING

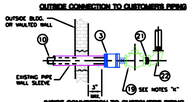
CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT

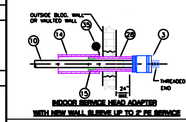
DATE 2/9/84 | DWG. NO. EO-16641-A | REV. 6
LAST REV. 11/29/18 | SHEET 1 OF 4

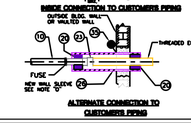
REVISIONS

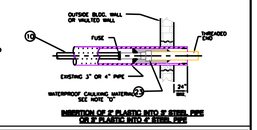
M. BALDWIN 8. DAN REDRAWN BY CAD. UPDATED DRAWING REVISED NOTES. ADDED SHEET #4 OF 4	2
RAJ. 5/16/06 M. BALDWIN 7/27/06 UPDATED DRAWING REVISED NOTES.	3
C.P. 6/26/06 M. BALDWIN 6/22/11 UPDATED DRAWING REVISED NOTES.	4
D.J. 6/22/11 M. BALDWIN 9/13/16 UPDATED DRAWING REVISED NOTES.	5
S.E. 9/15/16 M. BALDWIN 7/06/17 ADDED NOTE 1.	6
C.S. 6/14/17 M. BALDWIN 11/29/18 REVISED NOTES. ADDED NOTES U, V, W, X, Y	7
V.G. / R.R. 11/29/18	











NOTES:

A. REFER TO G-8100 FOR DETAILED CONSTRUCTION REQUIREMENTS FOR THE INSTALLATION OF NEW AND REPLACEMENT GAS SERVICES.
B. ALL CUSTOMER'S WORK SHALL CONFORM TO COMPANY SPECIFICATIONS, " A CUSTOMER GUIDE TO NATURAL GAS SERVICE INSTALLATION," (YELLOW BOOK) AND ALL LOCAL CODE REQUIREMENTS.
C. REFER TO G-8200 FOR MINIMUM SIZES OF NEW/REPLACEMENT DIRECT BURIED SERVICES.
D. ALL CTS POLYETHYLENE (PE) PLASTIC PIPE SIZES (EXCEPT FOR 1/2" CTS) DIRECT BURIED AS PART OF AN INSERTION SHALL HAVE A PROTECTIVE SLEEVE INSTALLED AROUND THE CTS PE PLASTIC PIPE (ITEM 14).
E. REFER TO G-8100 FOR INSTALLATION REQUIREMENTS OF SERVICE CONNECTIONS TO PE PLASTIC AND METALLIC GAS MAINS.
F. REFER TO G-8205 FOR MAGNESIUM ANODE INSTALLATION REQUIREMENTS ON METALLIC FITTING AND UNPROTECTED STEEL GAS MAIN. A MAGNESIUM ANODE IS NOT REQUIRED FOR ANODELESS RISER INSTALLATION.
G. REFER TO G-8100 FOR EXCESS FLOW VALVE (EFV) INSTALLATION REQUIREMENTS ON HIGH PRESSURE SERVICES.
H. REFER TO G-8100 FOR TRACER WIRE INSTALLATION REQUIREMENTS ON DIRECT BURIED, TRENCHLESS TECHNOLOGY, AND INSERTED SERVICES.
I. REFER TO 502664 FOR INSTALLATION REQUIREMENTS OF ELECTRONIC MARKERS (ITEM 35) ON DIRECT BURIED, TRENCHLESS TECHNOLOGY, AND INSERTED SERVICES. AT A MINIMUM, ELECTRONIC MARKERS ARE TO BE INSTALLED AT MAIN-TO-SERVICE CONNECTION AND CURB VALVE.
J. REFER TO G-8100 AND 309495 FOR INSTALLATION REQUIREMENTS OF " WARNING BURIED GAS LINES BELOW" TAPE (ITEM 31).
K. REFER TO G-8100 FOR SERVICE HEAD VALVE (S/H/V) INSTALLATION REQUIREMENTS.
L. REFER TO G-8100 FOR INSTALLATION REQUIREMENTS OF TRANSITION FITTINGS.
M. REFER TO G-8100 FOR INSTALLATION REQUIREMENTS OF GAS SERVICES THAT ENTER A BUILDING THROUGH THE FLOOR; GAS SERVICES INSERTED/INSTALLED UNDER AN ENCLOSED LIVING SPACE; GAS SERVICES INSTALLED THROUGH A SUBSURFACE VAULT OR OPEN AREAWAY; GAS SERVICES INSTALLED IN AN OPEN AREA UNDERNEATH AN OUTSIDE STAIRCASE. SEE EO-16546-B, EO-4890-B, G-8096.
N. NEW AND REPLACEMENT SERVICES THAT ENTER A BUILDING (EITHER ABOVE GROUND OR UNDERGROUND) THROUGH THE BUILDING'S CONCRETE/MASONRY FOUNDATION/VAULTED WALL, SHALL ENTER VIA THE OLD SERVICE PIPE FOR AN INSERTION OR CONTINUOUS STEEL OR PVC SLEEVE FOR A NEW/REPLACEMENT SERVICE.
O. REFER TO G-8100 AND G-8096 FOR ANNULAR SPACE SEALING REQUIREMENTS.
P. RISER SUPPORT TO BE INSULATED FROM PIPE WITH NEOPRENE (OR EQUIVALENT) WRAPPED AROUND PIPE.
Q. SUPPORT THE CURB VALVE BOX (ITEM 5) WITH PRE-CAST BASE (ITEM 11) OR BRICKS (ITEM 27). ENTIRE ASSEMBLY SHOULD BE ON WELL COMPACTED SOIL.
R. PLASTIC CURB VALVE BOX (ITEM 5) IS ONLY TO BE USED IN SIDEWALK AND NON-PAVED AREAS. CAST IRON CURB VALVE BOX (ITEM 5) IS TO BE USED IN THE STREET.
S. REFER TO G-8204 FOR PRESSURE TESTING REQUIREMENTS FOR NEW, REPLACED, AND RECONNECTED SERVICES.
T. INSTALL ASG GROUND KIT (ITEM #36) OR WET RAGS/BURLAP WHEN CUTTING OR DISCONNECTING A PLASTIC PIPE THAT CONTAINS NATURAL GAS.
U. THERMIT WELD (WITH SLEEVE ADAPTER INSTALLED ON THE STRIPPED END OF THE WIRE) IS THE PREFERRED METHOD FOR ATTACHING TRACER WIRE TO A METALLIC PIPE OR SLEEVE. IF THERMIT WELD IS NOT PRACTICAL, APPROVED MECHANICAL CONNECTIONS (C/S# 342-0073 FOR ¾" TO 1" PIPE SIZE; C/S# 342-0074 FOR 1-1/4" TO 2" PIPE SIZES) IS ACCEPTABLE. CONTACT CORROSION CONTROL FOR MECHANICAL FITTINGS > 2".
V. SEE DWG.502163 FOR BUMPER INSTALLATION REQUIREMENT, WHERE APPLICABLE.
W. REFER TO EO-600344 FOR TRACER WIRE INSTALLATION & EO-14838 FOR INSERTION OF PE. GAS SERVICES.
X. FOR GAS SERVICE INSERTIONS USE EITHER OF THE FOLLOWING METHODS FOR TRACER WIRE INSTALLATION:
   1) TAPE TRACER WIRE AT 20-30 FT. OR APPROPRIATE INTERVALS TO PLASTIC SERVICE TO BE INSERTED AND BRING ONE END OF THE TRACER WIRE TO THE TOP OF THE VALVE BOX.
      OR
   2) BEFORE PIPE INSERTION, JUMP THE GAPS IN THE CASING WITH TRACER WIRE AND THERMIT WELD THE TRACER WIRE ON EACH END OF THE CASING. IF THERMIT WELD IS NOT PRACTICAL, USE AN APPROVED MECHANICAL GROUND CLAMP. BRING ONE END OF THE TRACER WIRE TO THE TOP OF THE VALVE BOX.
Y. WHEN BRINGING TRACER WIRE UP TO A RISER OR WITHIN A VALVE BOX, THE BARE END OF THE WIRE SHALL BE TAPED TO PREVENT DIRECT CONTACT WITH THE RISER OR METAL SURFACE.

SEE ADDITIONAL SHEETS 3 OF 4 AND 4 OF 4 FOR BILL OF MATERIAL.

CONST. STDS. VOLUME 2

INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 2/9/84 | DWG. NO. EO-16641-A | REV. 7
LAST REV. 11/29/18 | SHEET 2 OF 4

1 CON EDISON PLASTIC GAS SERVICE PIPING DETAIL (1 OF 2)
SCALE: NONE

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LATEST CON ED REQUIREMENTS SHOULD AN UPDATED DETAIL BE PUBLISHED.

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IN CHARGE OF RG
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MADE BY JC

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
DETAILS

CONTRACT NUMBER	SHEET NUMBER
24-528	P-05
SHEET NO. 20 OF 22	
SCALE: AS SHOWN	
DATE: 04/14/2025	
DPW FILE NO. 48-00-P-160-0	REV. NO.

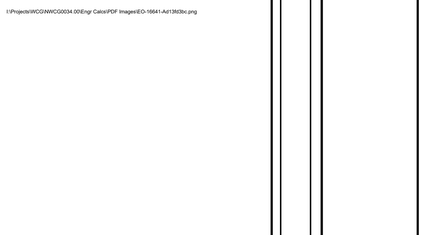
REVISIONS

M. SHLOSMAN B. DAS	0
REDRAWN BY CAD RAJ. 5/16/06	
M. SHLOSMAN 7/27/06	1
CHANGED MATERIAL LIST CP 6/26/06	
M. SHLOSMAN 6/22/11	2
CHANGED MATERIAL LIST. D.J. 6/22/11	
M. SHLOSMAN 9/15/16	3
CHANGED MATERIAL LIST. S.E. 9/15/16	
M. SHLOSMAN 7/06/17	4
CHANGED MATERIAL LIST. C.S. 6/14/17	
M. SHLOSMAN 11/29/18	5
CHANGED MATERIAL LIST. V.O./R.R. 11/29/18	

CONST. STDS. VOLUME 2

BILL OF MATERIAL

CONTINUED ON SHEET 4 OF 4



NOTE:
SEE SHEETS 1 OF 4 AND 2 OF 4 OF THIS DRAWING # EO-16641 INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) TO INDOOR / OUTDOOR METER, GAS SERVICE PIPING.

INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING
BILL OF MATERIAL

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT

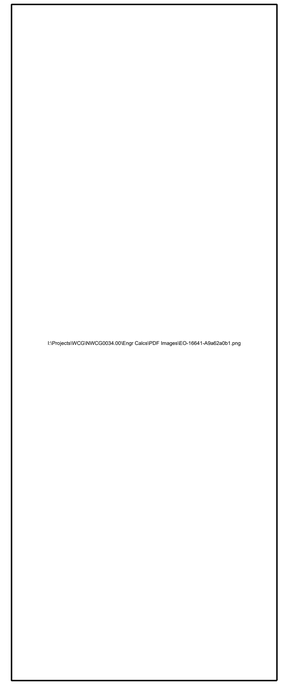
DATE 5/16/06 | DWG. NO. EO-16641-A | REV. 5
LAST REV. 11/29/18 | SHEET 3 OF 4

REVISIONS

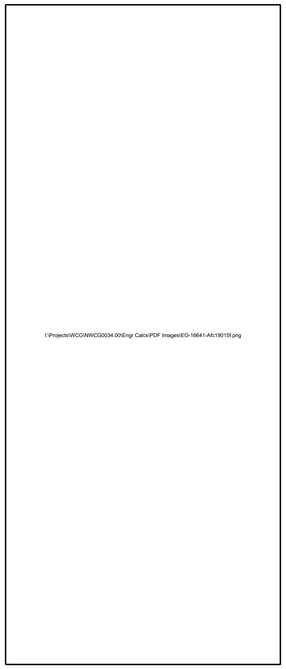
M. SHLOSMAN B. DAS	0
REDRAWN BY CAD RAJ. 5/16/06	
M. SHLOSMAN 7/27/06	1
UPDATED MATERIAL LIST C.P. 6/26/06	
M. SHLOSMAN 6/22/11	2
UPDATED MATERIAL LIST D.J. 6/22/11	
M. SHLOSMAN 9/15/16	3
UPDATED MATERIAL LIST S.E. 9/15/16	
M. SHLOSMAN 7/06/17	4
UPDATED MATERIAL LIST C.S. 6/14/17	
M. SHLOSMAN 11/29/18	5
ADDED ITEM 37. ADDED ITEMS 19 TO 29. REVISED ITEM 23 C/SZ 563-1367 REVISED ALL SHEETS EXCEPT FLOW VALVES R.R. 11/29/18	

CONST. STDS. VOLUME 2

BILL OF MATERIAL
CONTINUED FROM SHEET 3 OF 4



BILL OF MATERIAL



NOTES :

SEE SHEETS 1 OF 4 AND 2 OF 4 OF THIS DRAWING
EO-16641 INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING.

INSTALLATION OF PLASTIC (DIRECT BURIAL OR INSERTION) GAS SERVICE PIPING
BILL OF MATERIAL

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT

DATE 5/16/06 | DWG. NO. EO-16641-A | REV. 5
LAST REV. 11/29/18 | SHEET 4 OF 4

1 CON EDISON PLASTIC GAS SERVICE PIPING DETAIL (2 OF 2)
SCALE: NONE

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LATEST CON ED REQUIREMENTS SHOULD AN UPDATED DETAIL BE PUBLISHED.

OLA consulting engineers
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RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

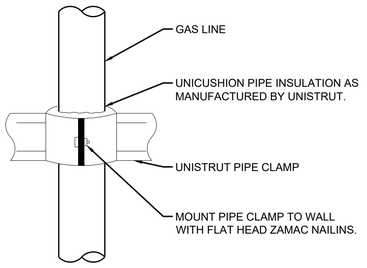
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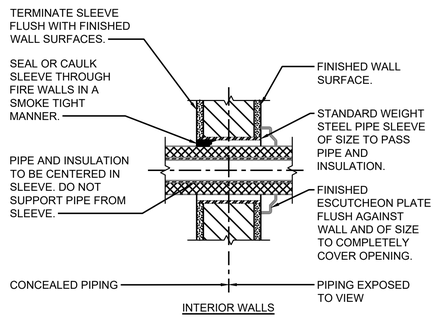
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
DETAILS

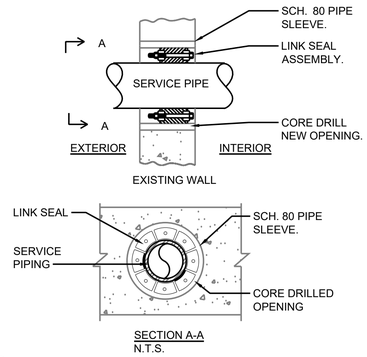
CONTRACT NUMBER 24-528
SHEET NUMBER P-06
SHEET NO. 21 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-161-0
REV. NO.



7 GAS PIPE SUPPORT DETAIL
SCALE: NONE

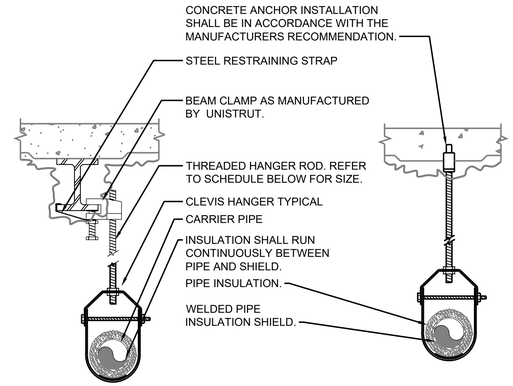


6 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



NOTES:
1.) USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE EXTERIOR WALLS, ABOVE GRADE OR BELOW GRADE.

5 PIPE LINK SEAL DETAIL FOR EXTERIOR WALL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

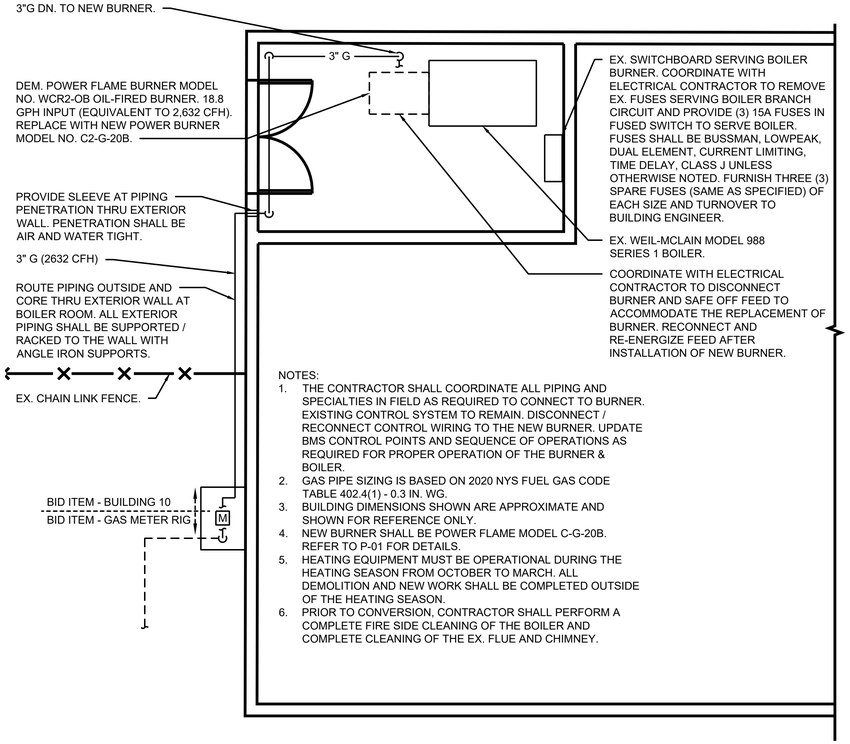
4 PIPE HANGER DETAIL
SCALE: NONE

INTERIOR BUILDING GAS PIPING SYSTEM TESTING NOTES

A. UPON COMPLETION OF THE INSTALLATION OF A SECTION OF A GAS SYSTEM OR OF THE ENTIRE GAS SYSTEM, AND BEFORE APPLIANCES ARE CONNECTED THERETO, THE ENTIRE GAS SYSTEM SHALL BE VERIFIED AS TO MATERIALS, AND TESTED AND PROVEN TIGHT BY THIS CONTRACTOR, AS FOLLOWS:

1. GAS DISTRIBUTION PIPING
   a. DISTRIBUTION PRESSURES UP TO 1/2 PSIG. THE COMPLETED PIPING IS TO BE TESTED AT 3 PSIG FOR A MINIMUM OF HALF HOUR.
   b. DISTRIBUTION PRESSURES OVER 1/2 PSIG THROUGH 3 PSIG. THE COMPLETED PIPING IS TO BE TESTED AT 50 PSIG FOR A MINIMUM OF HALF HOUR.
   c. DISTRIBUTION PRESSURES OVER 3 PSIG THROUGH 15 PSIG. THE COMPLETED PIPING IS TO BE TESTED AT 100 PSIG FOR A MINIMUM OF HALF HOUR.
   d. DISTRIBUTION PRESSURES ABOVE 15 PSIG. THE COMPLETED PIPING IS TO BE TESTED TO TWICE THE MAXIMUM ALLOWABLE OPERATING PRESSURE, BUT NOT LESS THAN 100 PSIG, FOR A MINIMUM OF HALF HOUR.
2. GAS CONTROL, VENT AND RELIEF PIPING
   a. THE COMPLETED PIPING IS TO BE TESTED AT 3 PSIG FOR A MINIMUM OF HALF HOUR.

B. METER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF CON ED.
C. NOTWITHSTANDING THE ABOVE, ALL COATED OR WRAPPED PIPE SHALL BE PRESSURE TESTED AT A MINIMUM OF 90 PSIG.
D. PURGE ALL PIPING AFTER PRESSURE TEST.
E. PURGE ALL EQUIPMENT AFTER PIPING HAS BEEN PURGED.
F. RADIOGRAPHY SHALL BE PERFORMED ON ALL BUTT WELDS IN GAS METER AND GAS DISTRIBUTION PIPING OPERATING AT PRESSURES EXCEEDING 3 PSIG, WITHIN BUILDINGS, IN ACCORDANCE WITH API 1104-1977 OR ASME SECTION IX BOILER AND PRESSURE VESSEL CODE, 1980.
G. CONTROLLED INSPECTION IS REQUIRED FOR METER AND DISTRIBUTION PIPING AT GAS PRESSURE EXCEEDING 3 PSIG.
H. CON ED MAY INSTRUCT THE CONTRACTOR THAT CERTAIN WELDING WORK MAY REQUIRE RADIOGRAPHIC INSPECTIONS. CON ED SHALL SELECT THE TESTING LABORATORY. THE INSPECTOR SHALL HAVE A MINIMUM RADIOGRAPHY QUALIFICATION OF LEVEL II.
I. WHEN NEW PIPING IS CONNECTED TO EXISTING GAS PIPING THE CONTRACTOR SHALL INSPECT EXISTING GAS PIPING CONNECTING TO THE NEW PIPING UP TO THE FIRST EXISTING GAS SHUT-OFF VALVE ON THE LINE WITH 200 PSI LOAD.
J. GAS TESTS SHALL BE MADE IN THE PRESENCE OF THE REPRESENTATIVES OF THE DEPARTMENT OF BUILDINGS AND THE GAS COMPANY; AND THE PIPING SHALL BE PROVEN TIGHT TO THEIR ENTIRE SATISFACTION. NOTIFICATION SHALL BE SENT TO THESE VARIOUS BUREAUS 72 HOURS IN ADVANCE OF THE TIME SET FOR THE OFFICIAL TEST.
K. GAS CONSUMED BEFORE THE BUILDING HAS BEEN ACCEPTED BY CON ED WILL NOT BE PAID FOR UNLESS SPECIAL PERMISSION TO USE GAS HAS BEEN GRANTED BY CON ED.

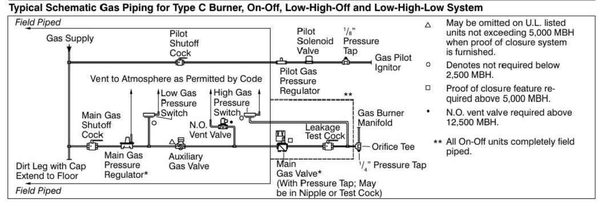


NOTES:
1. THE CONTRACTOR SHALL COORDINATE ALL PIPING AND SPECIALTIES IN FIELD AS REQUIRED TO CONNECT TO BURNER. EXISTING CONTROL SYSTEM TO REMAIN. DISCONNECT / RECONNECT CONTROL WIRING TO THE NEW BURNER. UPDATE BMS CONTROL POINTS AND SEQUENCE OF OPERATIONS AS REQUIRED FOR PROPER OPERATION OF THE BURNER & BOILER.
2. GAS PIPE SIZING IS BASED ON 2020 NYS FUEL GAS CODE TABLE 402.4(1) - 0.3 IN. WG.
3. BUILDING DIMENSIONS SHOWN ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY.
4. NEW BURNER SHALL BE POWER FLAME MODEL C-G-20B. REFER TO P-01 FOR DETAILS.
5. HEATING EQUIPMENT MUST BE OPERATIONAL DURING THE HEATING SEASON FROM OCTOBER TO MARCH. ALL DEMOLITION AND NEW WORK SHALL BE COMPLETED OUTSIDE OF THE HEATING SEASON.
6. PRIOR TO CONVERSION, CONTRACTOR SHALL PERFORM A COMPLETE FIRE SIDE CLEANING OF THE BOILER AND COMPLETE CLEANING OF THE EX. FLUE AND CHIMNEY.

NORTH

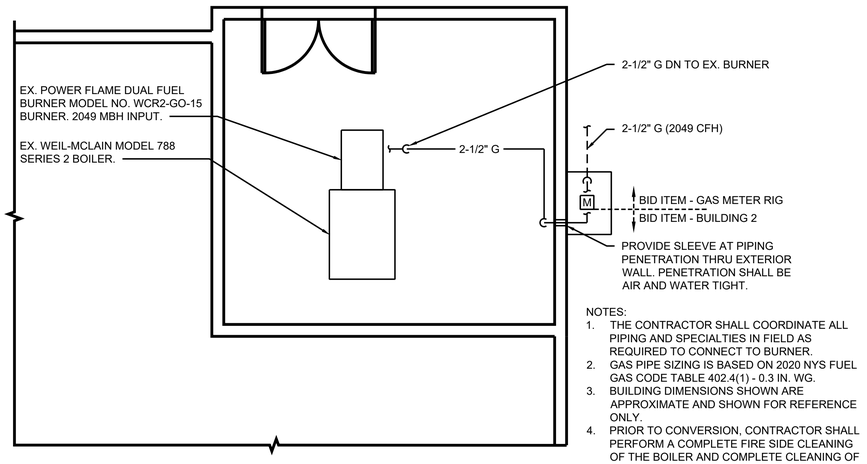
2 BUILDING 10 BOILER ROOM PART PLAN
SCALE: N.T.S.

Typical Schematic Gas Piping for Type C Burner, On-Off, Low-High-Off and Low-High-Low System



REFER TO POWER FLAME INSTALLATION MANUAL - FIGURE 9.

3 EQUIPMENT GAS CONNECTION SCHEMATIC
SCALE: NONE



NOTES:
1. THE CONTRACTOR SHALL COORDINATE ALL PIPING AND SPECIALTIES IN FIELD AS REQUIRED TO CONNECT TO BURNER.
2. GAS PIPE SIZING IS BASED ON 2020 NYS FUEL GAS CODE TABLE 402.4(1) - 0.3 IN. WG.
3. BUILDING DIMENSIONS SHOWN ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY.
4. PRIOR TO CONVERSION, CONTRACTOR SHALL PERFORM A COMPLETE FIRE SIDE CLEANING OF THE BOILER AND COMPLETE CLEANING OF THE EX. FLUE AND CHIMNEY.

NORTH

1 BUILDING 2 BOILER ROOM PART PLAN
SCALE: N.T.S.

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NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
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TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW GAS MAIN INSTALLATION, WESTCHESTER COUNTY AIRPORT
TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK
PLUMBING
BOILER ROOM PLANS & DETAILS

CONTRACT NUMBER	SHEET NUMBER
24-528	P-07

SHEET NO. 22 OF 22
SCALE: AS SHOWN
DATE: 04/14/2025
DPW FILE NO. 48-00-P-162-0
REV. NO.

APPENDIX C

DATA INTERPRETATION AND SUMMARY REPORT #1 by AMC Engineering for OLA (December 2024/Revised January 2025)

WESTCHESTER COUNTY AIRPORT GAS MAIN

240 Airport Road, West Harrison, NY 10504

DATA INTERPRETATION AND SUMMARY REPORT #1

Prepared For:

OLA Consulting Engineers, PC
50 Broadway
Hawthorne, NY 10532

Prepared For:

County of Westchester

Prepared by:

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

DECEMBER 2024

REVISED JANUARY 2025

Revision Summary

Revision #0 – Original Submission (dated 12/12/2024)

Revision #1 – Amended soil boring nomenclature from "B1-B6" to "B7-B12", respectively (B1=B7, B2=B8, B3=B9, B4=B10, B5=B11, and B6=B12). All changes throughout the document are noted as "amended boring number *[old boring number]*" (i.e. B12 *[B6]*).

Background and Summary

The County of Westchester owns the Westchester County Airport located at 240 Airport Road, West Harrison, NY 10504 (herein, "Site"). A new natural gas line is planned to be installed along Airport Road and through the airport parking lot under the oversight of OLA Consulting Engineers, PC (OLA).

Objective and Scope of Work

AMC Engineering, PLLC (AMC) was retained by OLA to perform a subsurface investigation at the Site and determine the state of the subsurface environmental conditions (soil and groundwater). To achieve this objective, AMC mobilized onsite with Coastal Environmental Solutions, Inc. (Coastal) to collect soil and groundwater samples to determine if the Site has been impacted by past or present site operations, from both onsite and offsite sources.

The scope of work consisted of the following:

- Advancing six (6) soil borings to a termination depth of 25' below grade or to refusal (whichever came first);
- Collection of soil samples from the intervals with the highest PID readings (or at the soil/groundwater interface, if no PID readings were detected);
- Installation of temporary wells at soil boring locations that were advanced below the water table; and
- Collection of groundwater samples from all installed temporary wells;

All onsite work activities were performed on November 19 and November 20, 2024, and a copy of a Daily Status Report (DSR) for each day can be found in **Appendix D**.

Soil Sampling Summary

On November 19 and 20, 2024, AMC and Coastal advanced six (6) soil borings (B7-B12) *[previously labeled B1-B6]* to depths ranging between 2.5'-20' below grade. In-situ samples were collected using a Geoprobe DT7822 drill rig and 5' acetate liners. Each liner was opened and screened with a MiniRAE3000 Portable Photo-Ionization Detector (PID). One soil grab sample was collected from each liner from the 2-foot interval exhibiting the highest PID reading, or at the soil/groundwater interface for locations with non-detect PID readings.

One soil sample was collected from each of the six (6) locations, for a total of six soil samples. Samples were collected and analyzed for the following compounds:

- Volatile Organic Compounds (EPA Method 8260);
- Semi-Volatile Organic Compounds (EPA Method 8270);
- TAL Metals (EPA Method 6010);
- PCBs (EPA Method 8082);
- Pesticides (EPA Method 8081); and
- SPLP PFAS (EPA Method 1312/1633)

The soil boring locations can be found in **Figure 2**, and a copy of the Soil Boring Logs can be found in **Appendix A**.

Groundwater Sampling Summary

Between November 19 and 20, 2024, AMC collected five (5) groundwater samples from temporary wells installed at locations B7 to B12 *[B1 to B6]*. Groundwater was not encountered at location B7 *[B1]* due to refusal at 2.5' below grade. One groundwater sample was collected from each well, for a total of five (5) groundwater samples.

Depth to groundwater was measured at approximately 8.53' (B8) *[B2]*, 7.35' (B9) *[B3]*, 8.27' (B10) *[B4]*, 6.82' (B11) *[B5]*, and 10.41' (B12) *[B6]*. All depths represent "below grade" conditions.

Five (5) groundwater samples were collected and analyzed for the following compounds:

- Volatile Organic Compounds (EPA Method 8260);
- Semi-Volatile Organic Compounds (EPA Method 8270); and
- PFAS/PFOS (EPA Method 1633)

The groundwater sampling locations can be found in **Figure 2**.

Quality Control of Samples

Soil and groundwater samples were retained in laboratory supplied/cleaned glassware and tracked from laboratory issuance through laboratory receipt of samples using a Chain of Custody (COC). The sample containers were properly labeled and documented on the COC and within the bound logbook. The samples and COC were placed in a cooler with ice to maintain a temperature of 4 °C, until they were picked up by a courier from Phoenix Environmental Laboratories Inc. on November 21, 2024. Soil and groundwater samples for PFAS/PFOS analysis were dropped off at York Analytical Laboratories Inc. on November 20, 2024.

Sample analysis was performed by Phoenix Environmental Laboratories, Inc. (Phoenix), a New York State ELAP certified environmental laboratory (NY Lab ID #11301) and York Analytical Laboratories, Inc. (York), a New York State ELAP certified environmental laboratory (NY Lab ID # 10854 & 12058).

Results and Conclusions – Soil Testing

All soil sample results were compared to the NYSDEC Part 375 Soil Cleanup Objectives (SCOs).

Several metals, pesticides, and SVOCs were found above the Unrestricted Use SCOs, Restricted-Residential Use SCOs, and Protection of Groundwater standards. However, only benzo(a)pyrene [SVOC] was found above the Commercial Use SCOs, in sample B-7 (1-2') *[B1 (1-2')]* at 3500 ug/Kg [Commercial Use limit is 1000 ug/Kg].

In addition, SPLP PFAS/PFOS results were found at non-detect levels.

The tabulated analytical results for soil samples can be found in **Table 1**, and a copy of the lab report can be found in **Appendices B & C**.

Results and Conclusions – Groundwater Testing

All groundwater sample results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Class GA, and the NYSDEC Part 375 PFAS Remedial Program Water [dated October 2020].

B-8 [B-2]:

The SVOCs benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were found above the guidance value of 0.002 ug/L. Phenol (SVOC) was found at 4.2 ug/L, which is above the Class GA limit (1 ug/L). Nine (9) PFAS parameters were found above the Part 375 Remedial Program limits.

B-9 [B-3]:

The SVOCs benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were found above the guidance value of 0.002 ug/L. Phenol (SVOC) was found at 3.6 ug/L, which is above the Class GA limit (1 ug/L). Two (2) PFAS parameters were found above the Part 375 Remedial Program limits.

B-10 [B-4]:

The SVOCs benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were found above the guidance value of 0.002 ug/L. Phenol (SVOC) was found at 3.5 ug/L, which is above the Class GA limit (1 ug/L). Three (3) PFAS parameters were found above the Part 375 Remedial Program limits.

B-11 [B-5]:
The SVOCs benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were found above the guidance value of 0.002 ug/L. Two (2) PFAS parameters were found above the Part 375 Remedial Program limits.

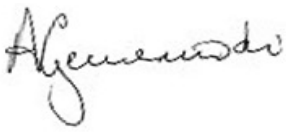
B-12 [B-6]:
The SVOCs benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were found above the guidance value of 0.002 ug/L. Phenol (SVOC) was found at 1.2 ug/L, which is above the Class GA limit (1 ug/L). Two (2) PFAS parameters were found above the Part 375 Remedial Program limits.

The tabulated analytical results for groundwater samples can be found in **Table 2**, and a copy of the lab reports can be found in **Appendices B & C**.

Respectfully,



Emma Waechter, EIT
AMC Engineering, PLLC



Ariel Czemerinski, PE
AMC Engineering, PLLC

Attachments:

Table 1 – Tabulated Analytical Results (Soil)
Table 2 – Tabulated Analytical Results (Groundwater)

Figure 1 – Site Location
Figure 2 – Boring Location Map

Appendix A: Soil Boring Logs
Appendix B: Analytical Results from ELAP Certified Environmental Laboratory (Phoenix)
Appendix C: Analytical Results from ELAP Certified Environmental Laboratory (York)
Appendix D: Daily Status Report

Table 1. Tabulated Analytical Result (Soil)

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 SDG: GCS13578 Project: WESTCHESTER AIRPORT	Lab Sample Id Collection Date Client Id Matrix CAS	Units	NY - Commercial Use SCOs	NY - Restricted Residential Use SCOs	NY - Unrestricted Use SCOs	NY - Protection to GW	B-7 (1-2') CS13578 11/19/2024 B-1 (1-2`) SOIL		B-8 (5-6') CS13579 11/19/2024 B-2 (5-6`) SOIL		B-9 (3-5') CS13581 11/19/2024 B-3 (3-5`) SOIL		B-10 (8-10') CS13583 11/19/2024 B-4 (8-10`) SOIL		B-11 (4-6') CS13585 11/19/2024 B-5 (4-6`) SOIL		B-12 (8-10') CS13587 11/19/2024 B-6 (8-10`) SOIL	
							Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Miscellaneous/Inorganics																		
Percent Solid	PHNX - PCTSOLID	%					91		90		86		86		90		89	
Metals Total																		
Aluminum	7429-90-5	mg/Kg					14800	55	11800	59	15300	57	16900	53	14200	57	21400	52
Antimony	7440-36-0	mg/Kg					< 3.7	3.7	< 3.9	3.9	< 3.8	3.8	< 3.5	3.5	< 3.8	3.8	< 3.5	3.5
Arsenic	7440-38-2	mg/Kg	16	16	13	16	3.01	0.73	2.01	0.78	2.31	0.77	1.8	0.7	1.61	0.76	1.15	0.69
Barium	7440-39-3	mg/Kg	400	400	350	820	120	0.37	96.1	0.39	119	0.38	141	0.35	87.1	0.38	163	0.35
Beryllium	7440-41-7	mg/Kg	590	72	7.2	47	0.43	0.29	0.34	0.31	0.44	0.31	0.44	0.28	0.4	0.3	0.76	0.28
Cadmium	7440-43-9	mg/Kg	9.3	4.3	2.5	7.5	< 0.37	0.37	< 0.39	0.39	< 0.38	0.38	< 0.35	0.35	< 0.38	0.38	< 0.35	0.35
Calcium	7440-70-2	mg/Kg					2400	5.5	2590	5.9	1530	5.7	1260	5.3	2080	5.7	1040	5.2
Chromium	7440-47-3	mg/Kg					31.1	0.37	26	0.39	29.3	0.38	28.7	0.35	32.7	0.38	37.5	0.35
Cobalt	7440-48-4	mg/Kg					12.3	0.37	10.1	0.39	12.5	0.38	13.8	0.35	9.95	0.38	29.3	0.35
Copper	7440-50-8	mg/Kg	270	270	50	1720	34.5	0.7	18.6	0.8	18.9	0.8	22.9	0.7	24.4	0.8	58.7	0.7
Iron	7439-89-6	mg/Kg					27300	55	20300	59	25300	57	30000	53	24700	57	37800	52
Lead	7439-92-1	mg/Kg	1000	400	63	450	22.7	0.37	14.1	0.39	9.12	0.38	7.25	0.35	5.46	0.38	9.33	0.35
Magnesium	7439-95-4	mg/Kg					6090	55	4070	5.9	5010	5.7	6500	53	4800	5.7	9620	52
Manganese	7439-96-5	mg/Kg	10000	2000	1600	2000	326	0.37	544	0.39	416	0.38	384	0.35	483	0.38	1000	0.35
Mercury	7439-97-6	mg/Kg	2.8	0.81	0.18	0.73	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03
Nickel	7440-02-0	mg/Kg	310	310	30	130	20.2	0.37	16.1	0.39	19.2	0.38	23.3	0.35	16.2	0.38	31.3	0.35
Potassium	7440-09-7	mg/Kg					4880	55	2380	59	4000	57	6040	53	2240	57	11100	520
Selenium	7782-49-2	mg/Kg	1500	180	3.9	4	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 2.0	2
Silver	7440-22-4	mg/Kg	1500	180	2	8.3	< 0.37	0.37	< 0.39	0.39	< 0.38	0.38	< 0.35	0.35	< 0.38	0.38	< 0.35	0.35
Sodium	7440-23-5	mg/Kg					311	5.5	478	5.9	154	5.7	281	5.3	757	5.7	517	5.2
Thallium	7440-28-0	mg/Kg					< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 3.2	3.2	< 3.4	3.4	< 3.1	3.1
Vanadium	7440-62-2	mg/Kg					49.6	0.37	34.4	0.39	42.3	0.38	45.5	0.35	43.8	0.38	64.3	0.35
Zinc	7440-66-6	mg/Kg	10000	10000	109	2480	81.8	0.7	44.2	0.8	86.8	0.8	60.4	0.7	44.2	0.8	83.7	0.7
Pesticides - Soil - SW8081B																		
4,4' -DDD	72-54-8	ug/Kg	92000	13000	3.3	14000	< 2.2	2.2	4.6	2.2	< 2.3	2.3	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2
4,4' -DDE	72-55-9	ug/Kg	62000	8900	3.3	17000	53	2.2	35	2.2	9.5	2.3	< 2.3	2.3	26	2.2	< 2.2	2.2
4,4' -DDT	50-29-3	ug/Kg	47000	7900	3.3	136000	41	2.2	45	2.2	< 2.3	2.3	< 2.3	2.3	24	2.2	< 2.2	2.2
a-BHC	319-84-6	ug/Kg	3400	480	20	20	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
a-Chlordane	5103-71-9	ug/Kg	24000	4200	94	2900	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 3.7	3.7	< 3.7	3.7
Aldrin	309-00-2	ug/Kg	680	97	5	190	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 3.7	3.7	< 3.7	3.7
b-BHC	319-85-7	ug/Kg	3000	360	36	90	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Chlordane	57-74-9	ug/Kg					< 36	36	< 36	36	< 38	38	< 38	38	< 37	37	< 37	37
d-BHC	319-86-8	ug/Kg	500000	100000	40	250	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Dieldrin	60-57-1	ug/Kg	1400	200	5	100	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 3.7	3.7	< 3.7	3.7
Endosulfan I	959-98-8	ug/Kg	200000	24000	2400	102000	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Endosulfan II	33213-65-9	ug/Kg	200000	24000	2400	102000	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Endosulfan sulfate	1031-07-8	ug/Kg	200000	24000	2400	1000000	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Endrin	72-20-8	ug/Kg	89000	11000	14	60	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Endrin aldehyde	7421-93-4	ug/Kg					< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Endrin ketone	53494-70-5	ug/Kg					< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
g-BHC	58-89-9	ug/Kg	9200	1300	100	100	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5
g-Chlordane	5103-74-2	ug/Kg					< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 3.7	3.7	< 3.7	3.7
Heptachlor	76-44-8	ug/Kg	15000	2100	42	380	< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Heptachlor epoxide	1024-57-3	ug/Kg					< 7.2	7.2	< 7.3	7.3	< 7.6	7.6	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3
Methoxychlor	72-43-5	ug/Kg					< 36	36	< 36	36	< 38	38	< 38	38	< 37	37	< 37	37
Toxaphene	8001-35-2	ug/Kg					< 140	140	< 150	150	< 150	150	< 150	150	< 150	150	< 150	150
Polychlorinated Biphenyls - SW8082A																		
PCB-1016	12674-11-2	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1221	11104-28-2	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1232	11141-16-5	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1242	53469-21-9	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1248	12672-29-6	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1254	11097-69-1	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1260	11096-82-5	ug/Kg	1000		100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1262	37324-23-5	ug/Kg			100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370
PCB-1268	11100-14-4	ug/Kg			100		< 360	360	< 360	360	< 380	380	< 380	380	< 370	370	< 370	370

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Table 1. Tabulated Analytical Result (Soil) (cont'd)

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 SDG: GCS13578 Project: WESTCHESTER AIRPORT	Lab Sample Id Collection Date Client Id Matrix CAS	Units	NY - Commercial Use SCOs	NY - Restricted Residential Use SCOs	NY - Unrestricted Use SCOs	NY - Protection to GW	B-7 (1-2') CS13578 11/19/2024 B-1 (1-2`) SOIL		B-8 (5-6') CS13579 11/19/2024 B-2 (5-6`) SOIL		B-9 (3-5') CS13581 11/19/2024 B-3 (3-5`) SOIL		B-10 (8-10') CS13583 11/19/2024 B-4 (8-10`) SOIL		B-11 (4-6') CS13585 11/19/2024 B-5 (4-6`) SOIL		B-12 (8-10') CS13587 11/19/2024 B-6 (8-10`) SOIL	
							Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles - SW8260D																		
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1,1-Trichloroethane	71-55-6	ug/Kg	500000	100000	680	680	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1,2,2-Tetrachloroethane	79-34-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1,2-Trichloroethane	79-00-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1-Dichloroethane	75-34-3	ug/Kg	240000	26000	270	270	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1-Dichloroethene	75-35-4	ug/Kg	500000	100000	330	330	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,1-Dichloropropene	563-58-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2,3-Trichlorobenzene	87-61-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2,3-Trichloropropane	96-18-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2,4-Trichlorobenzene	120-82-1	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2,4-Trimethylbenzene	95-63-6	ug/Kg	190000	52000	3600	3600	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2-Dibromo-3-chloropropane	96-12-8	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2-Dibromoethane	106-93-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2-Dichlorobenzene	95-50-1	ug/Kg	500000	100000	1100	1100	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2-Dichloroethane	107-06-2	ug/Kg	30000	3100	20	20	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,2-Dichloropropane	78-87-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,3,5-Trimethylbenzene	108-67-8	ug/Kg	190000	52000	8400	8400	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,3-Dichlorobenzene	541-73-1	ug/Kg	280000	49000	2400	2400	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,3-Dichloropropane	142-28-9	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
1,4-Dichlorobenzene	106-46-7	ug/Kg	130000	13000	1800	1800	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
2,2-Dichloropropane	594-20-7	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
2-Chlorotoluene	95-49-8	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
2-Hexanone	591-78-6	ug/Kg					< 25	25	< 30	30	< 27	27	< 27	27	< 24	24	< 28	28
2-Isopropyltoluene	527-84-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
4-Chlorotoluene	106-43-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
4-Methyl-2-pentanone	108-10-1	ug/Kg					< 25	25	< 30	30	< 27	27	< 27	27	< 24	24	< 28	28
Acetone	67-64-1	ug/Kg	500000	100000	50	50	< 25	25	< 30	30	< 27	27	33	27	< 24	24	< 28	28
Acrylonitrile	107-13-1	ug/Kg					< 10	10	< 12	12	< 11	11	< 11	11	< 9.7	9.7	< 11	11
Benzene	71-43-2	ug/Kg	44000	4800	60	60	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Bromobenzene	108-86-1	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Bromochloromethane	74-97-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Bromodichloromethane	75-27-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Bromoform	75-25-2	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Bromomethane	74-83-9	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Carbon Disulfide	75-15-0	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Carbon tetrachloride	56-23-5	ug/Kg	22000	2400	760	760	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Chlorobenzene	108-90-7	ug/Kg	500000	100000	1100	1100	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Chloroethane	75-00-3	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Chloroform	67-66-3	ug/Kg	350000	49000	370	370	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Chloromethane	74-87-3	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
cis-1,2-Dichloroethene	156-59-2	ug/Kg	500000	100000	250	250	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
cis-1,3-Dichloropropene	10061-01-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Dibromochloromethane	124-48-1	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Dibromomethane	74-95-3	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Dichlorodifluoromethane	75-71-8	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Ethylbenzene	100-41-4	ug/Kg	390000	41000	1000	1000	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Hexachlorobutadiene	87-68-3	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Isopropylbenzene	98-82-8	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
m&p-Xylene	179601-23-1	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Methyl Ethyl Ketone	78-93-3	ug/Kg	500000	100000	120	120	< 25	25	< 30	30	< 27	27	< 27	27	< 24	24	< 28	28
Methyl t-butyl ether (MTBE)	1634-04-4	ug/Kg	500000	100000	930	930	< 10	10	< 12	12	< 11	11	< 11	11	< 9.7	9.7	< 11	11
Methylene chloride	75-09-2	ug/Kg	500000	100000	50	50	< 10	10	< 12	12	< 11	11	< 11	11	< 9.7	9.7	< 11	11
n-Butylbenzene	104-51-8	ug/Kg	500000	100000	12000	12000	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
n-Propylbenzene	103-65-1	ug/Kg	500000	100000	3900	3900	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Naphthalene	91-20-3	ug/Kg	500000	100000	12000	12000	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
o-Xylene	95-47-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
p-Isopropyltoluene	99-87-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
sec-Butylbenzene	135-98-8	ug/Kg	500000	100000	11000	11000	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Styrene	100-42-5	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
tert-Butylbenzene	98-06-6	ug/Kg	500000	100000	5900	5900	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Tetrachloroethene	127-18-4	ug/Kg	150000	19000	1300	1300	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Tetrahydrofuran (THF)	109-99-9	ug/Kg					< 10	10	< 12	12	< 11	11	< 11	11	< 9.7	9.7	< 11	11
Toluene	108-88-3	ug/Kg	500000	100000	700	700	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Total Xylenes	1330-20-7	ug/Kg		100000	260	1600	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
trans-1,2-Dichloroethene	156-60-5	ug/Kg	500000	100000	190	190	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
trans-1,3-Dichloropropene	10061-02-6	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
trans-1,4-dichloro-2-butene	110-57-6	ug/Kg					< 10	10	< 12	12	< 11	11	< 11	11	< 9.7	9.7	< 11	11
Trichloroethene	79-01-6	ug/Kg	200000	21000	470	470	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Trichlorofluoromethane	75-69-4	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Trichlorotrifluoroethane	76-13-1	ug/Kg					< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6
Vinyl chloride	75-01-4	ug/Kg	13000	900	20	20	< 5.1	5.1	< 6.1	6.1	< 5.3	5.3	< 5.5	5.5	< 4.8	4.8	< 5.6	5.6

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Table 1. Tabulated Analytical Result (Soil) (cont'd)

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 SDG: GCS13578 Project: WESTCHESTER AIRPORT	Lab Sample Id Collection Date Client Id Matrix CAS	Units	NY - Commercial Use SCOs	NY - Restricted Residential Use SCOs	NY - Unrestricted Use SCOs	NY - Protection to GW	B-7 (1-2') CS13578 11/19/2024 B-1 (1-2`) SOIL		B-8 (5-6') CS13579 11/19/2024 B-2 (5-6`) SOIL		B-9 (3-5') CS13581 11/19/2024 B-3 (3-5`) SOIL		B-10 (8-10') CS13583 11/19/2024 B-4 (8-10`) SOIL		B-11 (4-6') CS13585 11/19/2024 B-5 (4-6`) SOIL		B-12 (8-10') CS13587 11/19/2024 B-6 (8-10`) SOIL	
							Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Semivolatiles - SW8270E																		
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
1,2,4-Trichlorobenzene	120-82-1	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
1,2-Dichlorobenzene	95-50-1	ug/Kg	500000	100000	1100	1100	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
1,2-Diphenylhydrazine	122-66-7	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
1,3-Dichlorobenzene	541-73-1	ug/Kg	280000	49000	2400	2400	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
1,4-Dichlorobenzene	106-46-7	ug/Kg	130000	13000	1800	1800	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,4,5-Trichlorophenol	95-95-4	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,4,6-Trichlorophenol	88-06-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,4-Dichlorophenol	120-83-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,4-Dimethylphenol	105-67-9	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,4-Dinitrophenol	51-28-5	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
2,4-Dinitrotoluene	121-14-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2,6-Dinitrotoluene	606-20-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2-Chloronaphthalene	91-58-7	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2-Chlorophenol	95-57-8	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
2-Methylnaphthalene	91-57-6	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
4,6-Dinitro-2-methylphenol	534-52-1	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
4-Bromophenyl phenyl ether	101-55-3	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
4-Chloro-3-methylphenol	59-50-7	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
4-Chloroaniline	106-47-8	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
4-Chlorophenyl phenyl ether	7005-72-3	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
4-Nitroaniline	100-01-6	ug/Kg					< 580	580	< 590	590	< 610	610	< 620	620	< 580	580	< 600	600
4-Nitrophenol	100-02-7	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Acenaphthene	83-32-9	ug/Kg	500000	100000	20000	98000	280	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Acenaphthylene	208-96-8	ug/Kg	500000	100000	100000	107000	1400	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Acetophenone	98-86-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Aniline	62-53-3	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Anthracene	120-12-7	ug/Kg	500000	100000	100000	1000000	1600	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benz(a)anthracene	56-55-3	ug/Kg	5600	1000	1000	1000	4000	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzidine	92-87-5	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzo(a)pyrene	50-32-8	ug/Kg	1000	1000	1000	22000	3500	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzo(b)fluoranthene	205-99-2	ug/Kg	5600	1000	1000	1700	3000	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzo(ghi)perylene	191-24-2	ug/Kg	500000	100000	100000	1000000	1800	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzo(k)fluoranthene	207-08-9	ug/Kg	56000	3900	800	1700	840	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Benzoic acid	65-85-0	ug/Kg					< 730	730	< 740	740	< 760	760	< 770	770	< 730	730	< 750	750
Benzyl butyl phthalate	85-68-7	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Bis(2-chloroethoxy)methane	111-91-1	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Bis(2-chloroethyl)ether	111-44-4	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Bis(2-ethylhexyl)phthalate	117-81-7	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	2600	360	< 370	370
Carbazole	86-74-8	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Chrysene	218-01-9	ug/Kg	56000	3900	1000	1000	4300	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Di-n-butylphthalate	84-74-2	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Di-n-octylphthalate	117-84-0	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Dibenz(a,h)anthracene	53-70-3	ug/Kg	560	330	330	1000000	370	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Dibenzofuran	132-64-9	ug/Kg	350000	59000	7000	210000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Diethyl phthalate	84-66-2	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Dimethylphthalate	131-11-3	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Fluoranthene	206-44-0	ug/Kg	500000	100000	100000	1000000	6500	260	270	260	< 270	270	< 270	270	< 260	260	< 260	260
Fluorene	86-73-7	ug/Kg	500000	100000	30000	386000	960	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Hexachlorobenzene	118-74-1	ug/Kg	6000	1200	330	3200	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Hexachlorobutadiene	87-68-3	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Hexachlorocyclopentadiene	77-47-4	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Hexachloroethane	67-72-1	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg	5600	500	500	8200	1400	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Isophorone	78-59-1	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
N-Nitrosodi-n-propylamine	621-64-7	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
N-Nitrosodimethylamine	62-75-9	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
N-Nitrosodiphenylamine	86-30-6	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Naphthalene	91-20-3	ug/Kg	500000	100000	12000	12000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Nitrobenzene	98-95-3	ug/Kg					< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Pentachloronitrobenzene	82-68-8	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Pentachlorophenol	87-86-5	ug/Kg	6700	6700	800	800	< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370
Phenanthrene	85-01-8	ug/Kg	500000	100000	100000	1000000	6600	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Phenol	108-95-2	ug/Kg	500000	100000	330	330	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 260	260
Pyrene	129-00-0	ug/Kg	500000	100000	100000	1000000	9700	1300	300	260	< 270	270	< 270	270	< 260	260	< 260	260
Pyridine	110-86-1	ug/Kg					< 370	370	< 370	370	< 380	380	< 390	390	< 360	360	< 370	370

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Table 1. Tabulated Analytical Results (cont'd) - Soil SPLP PFAS

Sample ID		B-1 (1-2ft) B-7 (1-2')		B-2 (5-6ft) B-8 (5-6')		B-3 (3-5ft) B-9 (3-5')		B-4 (8-10ft) B-10 (8-10')		B-5 (4-6ft) B-11 (4-6')		B-6 (8-10ft) B-12 (8-10')	
York ID		24K1532-01		24K1532-02		24K1532-03		24K1532-04		24K1532-05		24K1532-06	
Sampling Date		11/19/2024 9:00:00 AM		11/19/2024 10:50:00 AM		11/19/2024 12:20:00 PM		11/19/2024 1:50:00 PM		11/19/2024 10:45:00 AM		11/19/2024 8:15:00 AM	
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
SPLP Extraction for PFAS 1312		N/A		N/A		N/A		N/A		N/A		N/A	
Dilution Factor		1		1		1		1		1		1	
SPLP Extraction		Completed		Completed		Completed		Completed		Completed		Completed	
PFAS, SPLP EPA 1633 List		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Dilution Factor		1		1		1		1		1		1	
11CL-PF3OUdS	763051-92-9	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS	39108-34-4	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS	757124-72-4	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS	27619-97-2	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
3-Perfluoroheptyl propanoic acid (FHpPA)	812-70-4	0.00002	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U
3-Perfluoropentyl propanoic acid (FPePA)	914637-49-3	0.00002	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U
3-Perfluoropropyl propanoic acid (FPrPA)	356-02-5	0.00000	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
9CL-PF3ONS	756426-58-1	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
ADONA	919005-14-4	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
HFPO-DA (Gen-X)	13252-13-6	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U	0.00001	U
N-EtFOSA	4151-50-2	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
N-EtFOSAA	2991-50-6	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
N-EtFOSE	1691-99-2	0.00002	U	0.00002	U	0.00002	U	0.00002	U	0.00002	U	0.00002	U
N-MeFOSA	31506-32-8	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
N-MeFOSAA	2355-31-9	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
N-MeFOSE	24448-09-7	0.00002	U	0.00002	U	0.00002	U	0.00002	U	0.00002	U	0.00002	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00001		0.00000	
Perfluorodecanoic acid (PFDA)	335-76-2	0.00000	J	0.00000	U	0.00000	U	0.00000	U	0.00000	J	0.00000	J
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00000	J	0.00000	U	0.00000	J	0.00000	U	0.00000	J	0.00000	J
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.00000	U	0.00000	U	0.00000	J	0.00000		0.00000	U	0.00000	U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.00000	J	0.00000	U	0.00000		0.00000	U	0.00001		0.00001	
Perfluoro-n-butanoic acid (PFBA)	375-22-4	0.00001	J	0.00001	U	0.00001	J	0.00001	U	0.00001	J	0.00001	J
Perfluorononanoic acid (PFNA)	375-95-1	0.00000		0.00000	U	0.00000	J	0.00000	U	0.00000	J	0.00000	U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.00006		0.00000		0.00001		0.00000	J	0.00002		0.00000	
Perfluorooctanoic acid (PFOA)	335-67-1	0.00000		0.00000	U	0.00001		0.00000	U	0.00000		0.00000	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00000	J	0.00000	U	0.00000	J	0.00000	U	0.00000	J	0.00000	J
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U	0.00000	U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.00000	J	0.00000	U	0.00000	U	0.00000	U	0.00000	J	0.00000	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
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
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:
York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York

Table 2. Tabulated Analytical Results (Groundwater)

Phoenix Environmental Laboratories, Inc.				B-8		B-9		B-10		B-11		B-12	
587 East Middle Turnpike													
P.O. Box 370	Lab Sample Id			CS13580		CS13582		CS13584		CS13586		CS13588	
Manchester, CT 06040	Collection Date			11/19/2024		11/19/2024		11/19/2024		11/19/2024		11/19/2024	
(860) 645-1102	Client Id			B-2		B-3		B-4		B-5		B-6	
	Matrix			GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
SDG: GCS13578													
Project: WESTCHESTER AIRPORT	CAS	Units	NY TOGS 1.1.1 Class GA	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Semivolatiles (SIM) - SW8270E (SIM)													
2-Methylnaphthalene	91-57-6	ug/L		< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Acenaphthene	83-32-9	ug/L	20	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Acenaphthylene	208-96-8	ug/L		< 0.47	0.47	1.1	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Anthracene	120-12-7	ug/L	50	< 0.47	0.47	1	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Benz(a)anthracene	56-55-3	ug/L	0.002	< 0.02	0.02	1.3	0.02	0.05	0.02	< 0.03	0.03	< 0.02	0.02
Benzo(a)pyrene	50-32-8	ug/L		< 0.02	0.02	1.1	0.02	0.06	0.02	< 0.02	0.02	< 0.02	0.02
Benzo(b)fluoranthene	205-99-2	ug/L	0.002	< 0.02	0.02	0.67	0.02	0.03	0.02	< 0.02	0.02	< 0.02	0.02
Benzo(ghi)perylene	191-24-2	ug/L		< 0.47	0.47	0.8	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Benzo(k)fluoranthene	207-08-9	ug/L	0.002	< 0.02	0.02	0.73	0.02	0.03	0.02	< 0.02	0.02	< 0.02	0.02
Chrysene	218-01-9	ug/L	0.002	< 0.02	0.02	1.3	0.02	0.06	0.02	< 0.02	0.02	< 0.02	0.02
Dibenz(a,h)anthracene	53-70-3	ug/L		< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Fluoranthene	206-44-0	ug/L	50	< 0.47	0.47	2.8	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Fluorene	86-73-7	ug/L	50	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Hexachlorobenzene	118-74-1	ug/L	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04
Hexachlorobutadiene	87-68-3	ug/L	0.5	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Hexachlorocyclopentadiene	77-47-4	ug/L	5	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.002	< 0.02	0.02	0.9	0.02	0.04	0.02	< 0.02	0.02	< 0.02	0.02
N-Nitrosodimethylamine	62-75-9	ug/L		< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Naphthalene	91-20-3	ug/L	10	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Nitrobenzene	98-95-3	ug/L	0.4	< 0.38	0.38	< 0.38	0.38	< 0.38	0.38	< 0.38	0.38	< 0.38	0.38
Pentachlorophenol	87-86-5	ug/L	1	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Phenanthrene	85-01-8	ug/L	50	< 0.47	0.47	1.5	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Pyrene	129-00-0	ug/L	50	< 0.47	0.47	3.4	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Pyridine	110-86-1	ug/L	50	< 0.47	0.47	< 0.47	0.47	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47
Semivolatiles - SW8270E													
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/L		< 3.3	3.3	< 3.3	3.3	< 3.3	3.3	< 3.3	3.3	< 3.3	3.3
1,2,4-Trichlorobenzene	120-82-1	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
1,2-Dichlorobenzene	95-50-1	ug/L		< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4
1,2-Diphenylhydrazine	122-66-7	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
1,3-Dichlorobenzene	541-73-1	ug/L	3	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4
1,4-Dichlorobenzene	106-46-7	ug/L		< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4
2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
2,4,5-Trichlorophenol	95-95-4	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2,4,6-Trichlorophenol	88-06-2	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2,4-Dichlorophenol	120-83-2	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2,4-Dimethylphenol	105-67-9	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2,4-Dinitrophenol	51-28-5	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2,4-Dinitrotoluene	121-14-2	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
2,6-Dinitrotoluene	606-20-2	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
2-Chloronaphthalene	91-58-7	ug/L	10	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
2-Chlorophenol	95-57-8	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2-Methylphenol (o-cresol)	95-48-7	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
2-Nitroaniline	88-74-4	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
2-Nitrophenol	88-75-5	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
3&4-Methylphenol (m&p-cresol)	PHNX - M&P CRESOL	ug/L		< 9.4	9.4	< 9.4	9.4	< 9.4	9.4	< 9.5	9.5	< 9.4	9.4
3,3'-Dichlorobenzidine	91-94-1	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
3-Nitroaniline	99-09-2	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
4-Bromophenyl phenyl ether	101-55-3	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
4-Chloro-3-methylphenol	59-50-7	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
4-Chloroaniline	106-47-8	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
4-Chlorophenyl phenyl ether	7005-72-3	ug/L		< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
4-Nitroaniline	100-01-6	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
4-Nitrophenol	100-02-7	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
Acetophenone	98-86-2	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Aniline	62-53-3	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Benzoic acid	65-85-0	ug/L		< 47	47	< 47	47	< 47	47	< 48	48	< 47	47
Benzyl butyl phthalate	85-68-7	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Bis(2-chloroethoxy)methane	111-91-1	ug/L	5	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Bis(2-chloroethyl)ether	111-44-4	ug/L	1	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
Bis(2-ethylhexyl)phthalate	117-81-7	ug/L	5	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
Carbazole	86-74-8	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Di-n-butylphthalate	84-74-2	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Di-n-octylphthalate	117-84-0	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Dibenzofuran	132-64-9	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Diethyl phthalate	84-66-2	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Dimethylphthalate	131-11-3	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Hexachloroethane	67-72-1	ug/L	5	< 0.94	0.94	< 0.94	0.94	< 0.94	0.94	< 0.95	0.95	< 0.94	0.94
Isophorone	78-59-1	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
N-Nitrosodi-n-propylamine	621-64-7	ug/L		< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
N-Nitrosodiphenylamine	86-30-6	ug/L	50	< 4.7	4.7	< 4.7	4.7	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7
Pentachloronitrobenzene	82-68-8	ug/L		< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4
Phenol	108-95-2	ug/L	1	4.2	0.94	3.6	0.94	3.5	0.94	< 0.95	0.95	1.2	0.94

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Table 2. Tabulated Analytical Results (Groundwater) (cont'd)

Phoenix Environmental Laboratories, Inc.				B-8		B-9		B-10		B-11		B-12	
587 East Middle Turnpike													
P.O. Box 370	Lab Sample Id			CS13580		CS13582		CS13584		CS13586		CS13588	
Manchester, CT 06040	Collection Date			11/19/2024		11/19/2024		11/19/2024		11/19/2024		11/19/2024	
(860) 645-1102	Client Id			B-2		B-3		B-4		B-5		B-6	
	Matrix			GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
SDG: GCS13578													
Project: WESTCHESTER AIRPORT	CAS	Units	NY TOGS 1.1.1 Class GA	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles - SW8260D													
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,1,1-Trichloroethane	71-55-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5
1,1,2-Trichloroethane	79-00-5	ug/L	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,1-Dichloroethane	75-34-3	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,1-Dichloroethene	75-35-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,1-Dichloropropene	563-58-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2,3-Trichlorobenzene	87-61-6	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2,3-Trichloropropane	96-18-4	ug/L	0.04	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2,4-Trichlorobenzene	120-82-1	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2,4-Trimethylbenzene	95-63-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.04	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2-Dibromoethane	106-93-4	ug/L	0.0006	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2-Dichlorobenzene	95-50-1	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,2-Dichloroethane	107-06-2	ug/L	0.6	< 0.60	0.6	< 0.60	0.6	< 0.60	0.6	< 0.60	0.6	< 0.60	0.6
1,2-Dichloropropane	78-87-5	ug/L	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,3,5-Trimethylbenzene	108-67-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,3-Dichlorobenzene	541-73-1	ug/L	3	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,3-Dichloropropane	142-28-9	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
1,4-Dichlorobenzene	106-46-7	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
2,2-Dichloropropane	594-20-7	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
2-Chlorotoluene	95-49-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
2-Hexanone	591-78-6	ug/L	50	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
2-Isopropyltoluene	527-84-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
4-Chlorotoluene	106-43-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
4-Methyl-2-pentanone	108-10-1	ug/L		< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
Acetone	67-64-1	ug/L	50	< 25	25	< 25	25	< 25	25	< 25	25	< 25	25
Acrolein	107-02-8	ug/L	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
Acrylonitrile	107-13-1	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Benzene	71-43-2	ug/L	1	< 0.70	0.7	< 0.70	0.7	< 0.70	0.7	< 0.70	0.7	< 0.70	0.7
Bromobenzene	108-86-1	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Bromochloromethane	74-97-5	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Bromodichloromethane	75-27-4	ug/L	50	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5
Bromoform	75-25-2	ug/L	50	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Bromomethane	74-83-9	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Carbon Disulfide	75-15-0	ug/L		< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
Carbon tetrachloride	56-23-5	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Chlorobenzene	108-90-7	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Chloroethane	75-00-3	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Chloroform	67-66-3	ug/L	7	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Chloromethane	74-87-3	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
cis-1,2-Dichloroethene	156-59-2	ug/L	5	1.6	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4
Dibromochloromethane	124-48-1	ug/L	50	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5	< 0.50	0.5
Dibromomethane	74-95-3	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Dichlorodifluoromethane	75-71-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Ethylbenzene	100-41-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Hexachlorobutadiene	87-68-3	ug/L	0.5	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4
Isopropylbenzene	98-82-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
m&p-Xylene	179601-23-1	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Methyl ethyl ketone	78-93-3	ug/L	50	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
Methyl t-butyl ether (MTBE)	1634-04-4	ug/L		< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Methylene chloride	75-09-2	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
n-Butylbenzene	104-51-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
n-Propylbenzene	103-65-1	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Naphthalene	91-20-3	ug/L	10	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
o-Xylene	95-47-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
p-Isopropyltoluene	99-87-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
sec-Butylbenzene	135-98-8	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Styrene	100-42-5	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Tert-butyl alcohol	75-65-0	ug/L		< 50	50	< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	98-06-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Tetrachloroethene	127-18-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Tetrahydrofuran (THF)	109-99-9	ug/L	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Toluene	108-88-3	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Total Xylenes	1330-20-7	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
trans-1,2-Dichloroethene	156-60-5	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4	< 0.40	0.4
trans-1,4-dichloro-2-butene	110-57-6	ug/L	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5	< 5.0	5
Trichloroethene	79-01-6	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Trichlorofluoromethane	75-69-4	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Trichlorotrifluoroethane	76-13-1	ug/L	5	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1
Vinyl chloride	75-01-4	ug/L	2	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1	< 1.0	1

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Table 2. Tabulated Analytical Results (cont'd) - Groundwater PFAS

Sample ID		NYDEC Part 375 PFAS Remedial Program Water Oct 2020	B-2		B-3		B-4		B-5		B-6	
York ID			24K1533-01 B-8		24K1533-02 B-9		24K1533-03 B-10		24K1533-04 B-11		24K1533-05 B-12	
Sampling Date			11/19/2024 11:15:00 AM		11/19/2024 12:35:00 PM		11/19/2024 2:50:00 PM		11/19/2024 10:50:00 AM		11/19/2024 8:40:00 AM	
Client Matrix			Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Compound	CAS Number		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFAS, EPA 1633 Target List		ng/L	ng/L		ng/L		ng/L		ng/L		ng/L	
Dilution Factor			5		1		1		1		1	
11CL-PF3OUdS	763051-92-9	100	6.890	U	1.360	U	1.330	U	1.260	U	1.260	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS	39108-34-4	100	12.500	JD	2.020	U	1.980	U	1.870	U	1.870	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS	757124-72-4	~	8.940	U	1.760	U	1.730	U	1.640	U	1.640	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS	27619-97-2	100	**315**	D	7.390	U	7.250	U	6.860	U	6.850	U
3-Perfluoroheptyl propanoic acid (FHpPA)	812-70-4	~	47.300	U	9.330	U	9.150	U	8.660	U	8.650	U
3-Perfluoropentyl propanoic acid (FPePA)	914637-49-3	~	36.600	U	7.220	U	7.080	U	6.700	U	6.700	U
3-Perfluoropropyl propanoic acid (FPrPA)	356-02-5	~	10.100	U	2	U	1.960	U	1.860	U	1.860	U
9CL-PF3ONS	756426-58-1	100	3.500	U	0.690	U	0.676	U	0.640	U	0.640	U
ADONA	919005-14-4	100	2.650	U	0.522	U	0.512	U	0.485	U	0.484	U
HFPO-DA (Gen-X)	13252-13-6	100	16.100	U	3.180	U	3.120	U	2.950	U	2.950	U
N-EtFOSA	4151-50-2	~	8.990	U	1.770	U	1.740	U	1.650	U	1.650	U
N-EtFOSAA	2991-50-6	100	5.140	U	1.020	U	0.995	U	0.942	U	0.941	U
N-EtFOSE	1691-99-2	~	19.900	U	3.930	U	3.860	U	3.650	U	3.650	U
N-MeFOSA	31506-32-8	~	7.890	U	1.560	U	1.530	U	1.440	U	1.440	U
N-MeFOSAA	2355-31-9	100	3.950	U	0.779	U	0.763	U	0.722	U	0.722	U
N-MeFOSE	24448-09-7	~	19.900	U	3.930	U	3.860	U	3.650	U	3.650	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	~	2.500	U	0.493	U	0.483	U	0.457	U	0.457	U
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	100	6.590	U	1.300	U	1.280	U	1.210	U	1.210	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	100	66	D	1.140	J	5.120		0.832	U	0.832	U
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	~	4.290	U	0.848	U	0.831	U	0.786	U	0.786	U
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	100	4.390	U	0.867	U	0.858	J	0.805	U	0.804	U
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	~	1,560		2.110		20.300		1.930		1.520	J
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	~	10.700	U	2.110	U	2.070	U	1.960	U	1.960	U
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	~	1.250	U	0.246	U	0.242	U	0.229	U	0.228	U
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	~	1.850	U	0.365	U	0.357	U	0.338	U	0.338	U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	100	**820**		3.900		17.700		5.230		3.380	
Perfluorodecanoic acid (PFDA)	335-76-2	100	3.750	U	0.739	U	0.725	U	0.686	U	0.685	U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	~	4.640	U	0.917	U	0.899	U	0.850	U	0.850	U
Perfluorododecanoic acid (PFDoA)	307-55-1	100	4.390	U	0.867	U	0.850	U	0.805	U	0.804	U
Perfluoroheptanoic acid (PFHpA)	375-85-9	100	**241**	D	12.300		6.220		3.400		10.800	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	100	**7,110**		47.200		**540**		20		38.500	
Perfluorohexanoic acid (PFHxA)	307-24-4	100	**694**		16.900		22.300		3.800		12.200	
Perfluoro-n-butanoic acid (PFBA)	375-22-4	100	**157**	D	13.900		19.800		6.810	J	7.090	J
Perfluorononanoic acid (PFNA)	375-95-1	100	74.700	D	3.420		4.570		1.690	J	5.100	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	10	**2,210**		**103**		**141**		**28.900**		**54.400**	
Perfluorooctanoic acid (PFOA)	335-67-1	10	**245**	D	**22.800**		**20.400**		**13.700**		**16.200**	
Perfluoropentanoic acid (PFPeA)	2706-90-3	100	**519**	D	19.600		7.770		2.750	J	12.900	
Perfluorotetradecanoic acid (PFTA)	376-06-7	100	3.450	U	0.680	U	0.667	U	0.631	U	0.631	U
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	100	3.700	U	0.729	U	0.715	U	0.677	U	0.676	U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	100	5.640	U	1.110	U	1.090	U	1.030	U	1.030	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
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
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:

York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data.

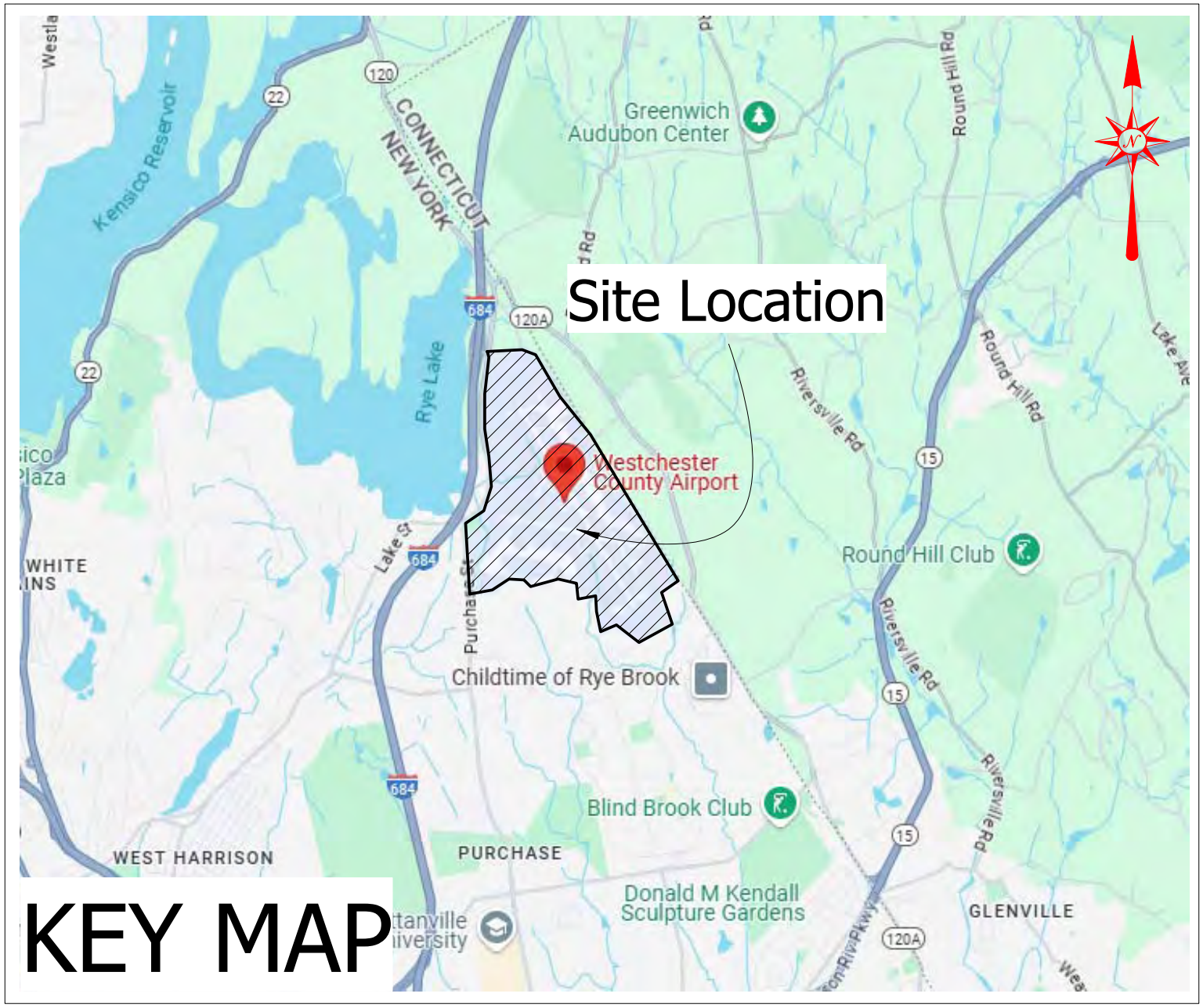
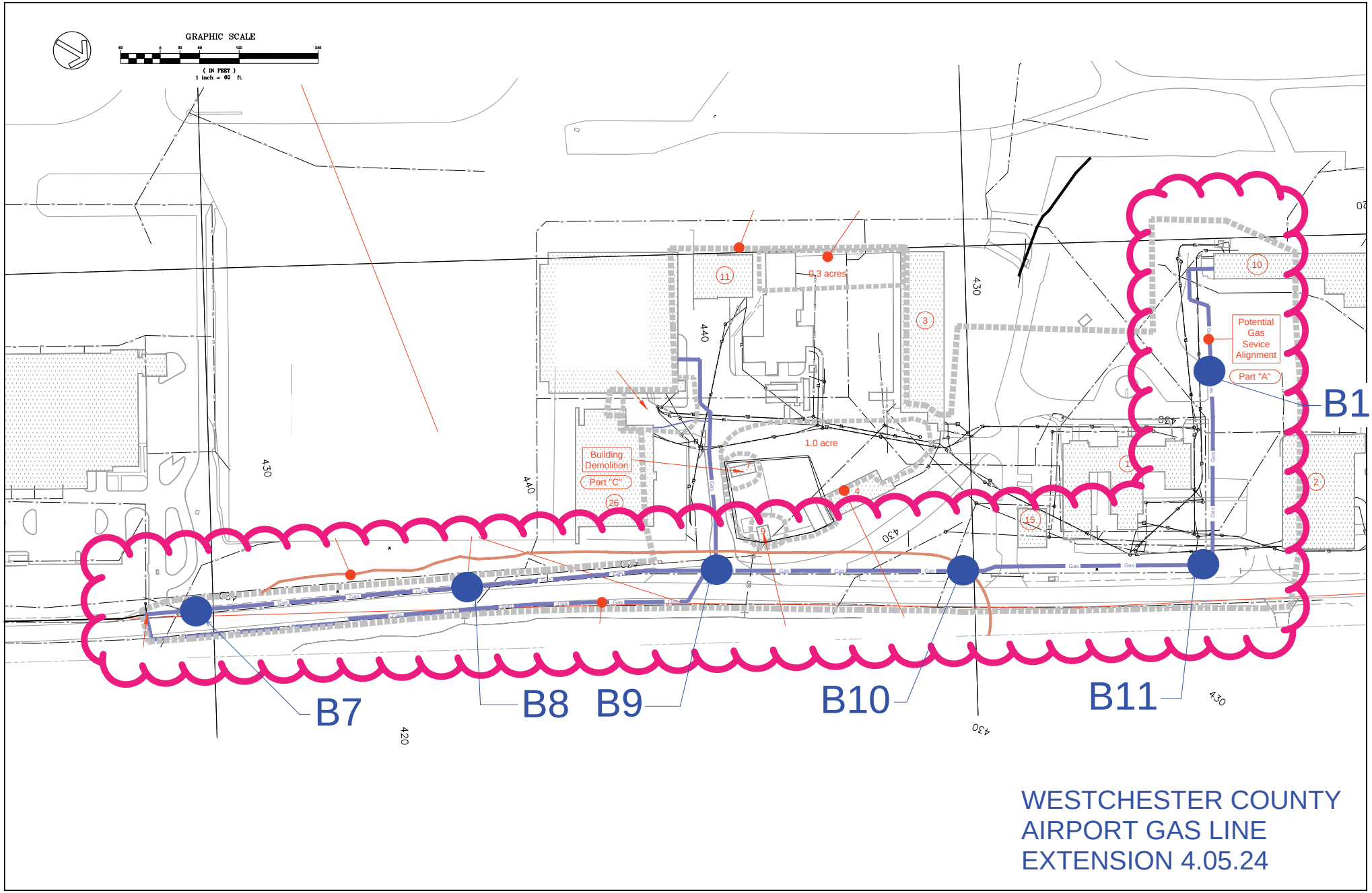


Figure 1: Site Location


GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
0.3 acres
1.0 acre
Building Demolition
Part "C"
Potential Gas Sevice Alignment
Part "A"
B7
B8
B9
B10
B11
B12
WESTCHESTER COUNTY
AIRPORT GAS LINE
EXTENSION 4.05.24

Appendix A: Soil Boring Logs

Geologic Boring Log Details

B7 B1 Boring Log

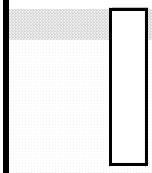
Location: See attached map			Depth to Water (ft. from grade.)		Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date	DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe				Well Specifications
Date Started: 11/19/2024	Date Completed: 11/19/2024		Groundwater depth		None
Completion Depth: 2.5'	Field Sampler Ahmed Elbadri				

B1 B7 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 2.5	26.5	N/A	0.0	0-6" Top soil 6-26.5" Medium brown sand
					Refusal at 26.5 inches

Geologic Boring Log Details

B7-A B1-A Boring Log

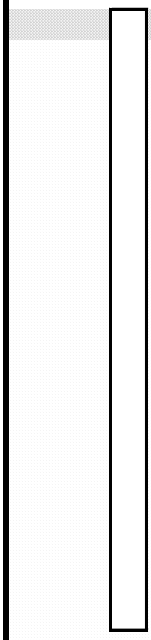
Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/19/2024	Date Completed: 11/19/2024		Groundwater depth	None
Completion Depth: 2.5'	Field Sampler Ahmed Elbadri			

B1-A B7-A (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 2.5	26.5	N/A	0.0	0-7" Top soil 7-26.5" Medium brown sand *Refusal at 26.5 inches*

Geologic Boring Log Details

B8 B2 Boring Log

Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/19/2024	Date Completed: 11/19/2024		Groundwater depth	None
Completion Depth: 20'	Field Sampler Ahmed Elbadri		8.53 ft	

B2 B8 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	30	N/A	0.0	0-8" Top soil 8-20" Fine brown sand 20-27" Gravel 27-30" Medium brown sand
	5 to 10	39	N/A	0.0	0-17" Medium brown sand/ gravel 17-39 Medium brown sand/ moist
	10 to 15	39	N/A	0.0	0-12" Medium brown sand/ gravvel 12-39" Medium brown sand/ moist
	15 to 20	20	N/A	0.0	0-20" Medium brown sand moist/ clay
	20				*Refusal at 20'*

Geologic Boring Log Details

B9 B3 Boring Log

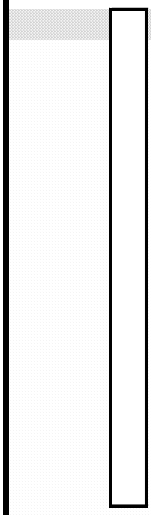
Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/19/2024	Date Completed: 11/19/2024		Groundwater depth	None
Completion Depth: 13'	Field Sampler Ahmed Elbadri		7.36 ft	

B3 B9 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	35	N/A	0.0	0-7" Top soil 7-35' Fine brown sand/ some clay
	5 to 10	42	N/A	0.0	0-5" Medium brown sand 5-13" Clay/ moist 13-42" Medium brown sand/ moist
	10 to 13	46	N/A	0.0	0-13" Clay 13-46" Medium brown sand/ rocks
					Refusal at 13'

Geologic Boring Log Details

B10 B4 Boring Log

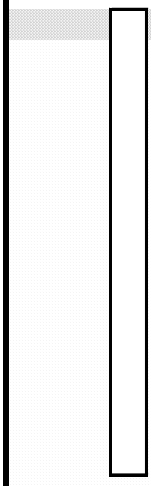
Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/19/2024	Date Completed: 11/19/2024		Groundwater depth	None
Completion Depth: 14'	Field Sampler Ahmed Elbadri		8.27 ft	

B4 B10 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	49.5	N/A	0.0	0-7" Top soil 7-49.5" Medium brown sand
	5 to 10	35	N/A	0.0	0-24" Medium brown sand 24-30" Clay 30-35" Medium brown sand
	10 to 14	48	N/A	0.0	0-21" Clay/ Fine brown sand moist 21-48" Coarse brown sand
					Refusal at 14'

Geologic Boring Log Details

B11 B5 Boring Log

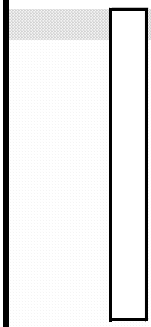
Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/20/2024	Date Completed: 11/20/2024		Groundwater depth	None
Completion Depth: 10'	Field Sampler Ahmed Elbadri		6.82	

B5 B11 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 5	50	N/A	0.0	0-50" Medium brown sand
	5 to 10	50.5	N/A	0.0	0-12" Medium brown sand 12-42" Medium brown sand/ moist 42-50" Rock
	10 to 15	28.5	N/A	0.0	0-11" Fine brown sand 11-29" Coarse brown sand/ Rocks
					Refusal between 10'-11'

Geologic Boring Log Details

B11-A B5-A Boring Log

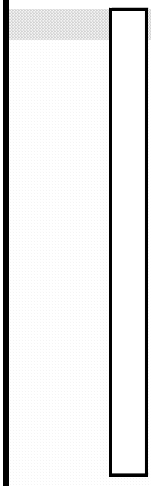
Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/20/2024	Date Completed: 11/20/2024		Groundwater depth	None
Completion Depth: 10'	Field Sampler Ahmed Elbadri			

B5-A B11-A (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	49	N/A	0.0	0-49" Medium brown sand
	5 to 10	50	N/A	0.0	0-38" Medium brown sand/ moist 38-50" Rocks
					Refusal at 10'

Geologic Boring Log Details

B12 B6 Boring Log

Location: See attached map			Depth to Water (ft. from grade.)	Site Elevation Datum
Project Name: Westchester County Airport	Address: 6 Loop Rd, White Plains, NY 10604		Date / DTW	Ground Elevation
Drilling Company: Coastal	Method: Geoprobe			Well Specifications
Date Started: 11/20/2024	Date Completed: 11/20/2024		Groundwater depth	None
Completion Depth: 13'	Field Sampler Ahmed Elbadri		10.41	

B6 B12 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	54	N/A	0.0	0-8" Asphalt 8-18" Concrete 18-54 Medium brown sand
	5 to 10	58	N/A	0.0	0-37" Medium brown sand 37-58" Rocks
	10 to 13	58	N/A	0.0	0-18" Fine brown sand/ moist 18-33 Medium brown sand 33-58" Rocks
					Refusal at 13'

Appendix B: Analytical Results from ELAP Certified Environmental Laboratory Phoenix Environmental Laboratories, Inc.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, December 10, 2024

Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Project ID: WESTCHESTER AIRPORT
SDG ID: GCS13578
Sample ID#s: CS13578 - CS13588

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

December 10, 2024

SDG I.D.: GCS13578

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level cannot be achieved.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

December 10, 2024

SDG I.D.: GCS13578

Project ID: WESTCHESTER AIRPORT

Client Id	Lab Id	Matrix
B-1 (1-2`)	CS13578	SOIL
B-2 (5-6`)	CS13579	SOIL
B-2	CS13580	GROUND WATER
B-3 (3-5`)	CS13581	SOIL
B-3	CS13582	GROUND WATER
B-4 (8-10`)	CS13583	SOIL
B-4	CS13584	GROUND WATER
B-5 (4-6`)	CS13585	SOIL
B-5	CS13586	GROUND WATER
B-6 (8-10`)	CS13587	SOIL
B-6	CS13588	GROUND WATER

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	9:05
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13578

Project ID: WESTCHESTER AIRPORT
Client ID: B-1 (1-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	14800	55	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	3.01	0.73	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	120	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.43	0.29	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	2400	5.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.37	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	12.3	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	31.1	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	34.5	0.7	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	27300	55	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	4880	55	mg/Kg	10	11/27/24	CPP	SW6010D	
Magnesium	6090	55	mg/Kg	10	11/27/24	CPP	SW6010D	
Manganese	326	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	311	5.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	20.2	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	22.7	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.7	3.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 1.5	1.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.3	3.3	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	49.6	0.37	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	81.8	0.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	91		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/T	SW3546	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/T	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	75		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	12/03/24	SC	30 - 150 %
% TCMX	87		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDE	53	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDT	41	2.2	ug/Kg	2	12/03/24	AW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	12/03/24	AW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	12/03/24	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	12/03/24	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	12/03/24	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	12/03/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	12/03/24	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	12/03/24	AW	30 - 150 %
% TCMX	41		%	2	12/03/24	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	12/03/24	AW	30 - 150 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND	25	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND	25	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	ND	25	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND	10	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	25	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	10	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	11/23/24	JLI	70 - 130 %

Volatiles

1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.1	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	11/23/24	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitroaniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3-Nitroaniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitroaniline	ND	580	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthene	280	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthylene	1400	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Aniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Anthracene	1600	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benz(a)anthracene	4000	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(a)pyrene	3500	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(b)fluoranthene	3000	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(ghi)perylene	1800	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(k)fluoranthene	840	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzoic acid	ND	730	ug/Kg	1	12/03/24	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Carbazole	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Chrysene	4300	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenz(a,h)anthracene	370	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dimethylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Di-n-butylphthalate	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluoranthene	6500	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluorene	960	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1400	260	ug/Kg	1	12/03/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Phenanthrene	6600	260	ug/Kg	1	12/03/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Pyrene	9700	1300	ug/Kg	5	12/04/24	MR	SW8270E
Pyridine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	60		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl	47		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorophenol	48		%	1	12/03/24	MR	30 - 130 %
% Nitrobenzene-d5	48		%	1	12/03/24	MR	30 - 130 %
% Phenol-d5	52		%	1	12/03/24	MR	30 - 130 %
% Terphenyl-d14	57		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl (5x)	53		%	5	12/04/24	MR	30 - 130 %
% Nitrobenzene-d5 (5x)	53		%	5	12/04/24	MR	30 - 130 %
% Terphenyl-d14 (5x)	50		%	5	12/04/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

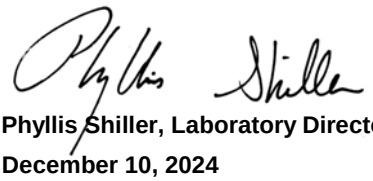
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	10:50
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13579

Project ID: WESTCHESTER AIRPORT
Client ID: B-2 (5-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	11800	59	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	2.01	0.78	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	96.1	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.34	0.31	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	2590	5.9	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.39	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	10.1	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	26.0	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	18.6	0.8	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	20300	59	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	2380	59	mg/Kg	10	11/27/24	CPP	SW6010D	
Magnesium	4070	5.9	mg/Kg	1	11/27/24	CPP	SW6010D	
Manganese	544	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	478	5.9	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	16.1	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	14.1	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.9	3.9	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 1.6	1.6	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.5	3.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	34.4	0.39	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	44.2	0.8	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	90		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/F	SW3546	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/F	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	64		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	60		%	10	12/03/24	SC	30 - 150 %
% TCMX	80		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	115		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	4.6	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDE	35	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDT	45	2.2	ug/Kg	2	12/03/24	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
a-Chlordane	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	12/03/24	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/03/24	AW	SW8081B
g-Chlordane	ND	3.6	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	12/03/24	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/03/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	12/03/24	AW	30 - 150 %
% DCBP (Confirmation)	44		%	2	12/03/24	AW	30 - 150 %
% TCMX	61		%	2	12/03/24	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	12/03/24	AW	30 - 150 %

Project ID: WESTCHESTER AIRPORT
Client ID: B-2 (5-6`)

Phoenix I.D.: CS13579

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND	30	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND	30	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	ND	30	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND	12	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	12	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	79		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	94		%	1	11/23/24	JLI	70 - 130 %

Volatiles

1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	6.1	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	79		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	94		%	1	11/23/24	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/03/24	E	SW8270E

Project ID: WESTCHESTER AIRPORT
Client ID: B-2 (5-6`)

Phoenix I.D.: CS13579

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	12/03/24	E	SW8270E	1
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
2-Nitroaniline	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
3-Nitroaniline	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
4-Nitroaniline	ND	590	ug/Kg	1	12/03/24	E	SW8270E	
4-Nitrophenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Acetophenone	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Aniline	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
Anthracene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benz(a)anthracene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzidine	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzo(a)pyrene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Benzoic acid	ND	740	ug/Kg	1	12/03/24	E	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
Carbazole	ND	370	ug/Kg	1	12/03/24	E	SW8270E	
Chrysene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Dimethylphthalate	ND	260	ug/Kg	1	12/03/24	E	SW8270E	
Di-n-butylphthalate	ND	370	ug/Kg	1	12/03/24	E	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Fluoranthene	270	260	ug/Kg	1	12/03/24	E	SW8270E
Fluorene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Isophorone	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Naphthalene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/03/24	E	SW8270E
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/03/24	E	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/03/24	E	SW8270E
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/03/24	E	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	12/03/24	E	SW8270E
Phenanthrene	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Phenol	ND	260	ug/Kg	1	12/03/24	E	SW8270E
Pyrene	300	260	ug/Kg	1	12/03/24	E	SW8270E
Pyridine	ND	370	ug/Kg	1	12/03/24	E	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	12/03/24	E	30 - 130 %
% 2-Fluorobiphenyl	57		%	1	12/03/24	E	30 - 130 %
% 2-Fluorophenol	46		%	1	12/03/24	E	30 - 130 %
% Nitrobenzene-d5	64		%	1	12/03/24	E	30 - 130 %
% Phenol-d5	52		%	1	12/03/24	E	30 - 130 %
% Terphenyl-d14	50		%	1	12/03/24	E	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

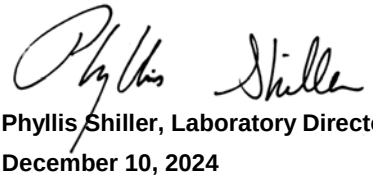
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
December 10, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		11/19/24	11:15
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13580

Project ID: WESTCHESTER AIRPORT
Client ID: B-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/25/24	Z/MQ	SW3520C	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/26/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	ug/L	1	11/26/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
2-Hexanone	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	1

Project ID: WESTCHESTER AIRPORT
Client ID: B-2

Phoenix I.D.: CS13580

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Acetone	ND	25	ug/L	1	11/26/24	MH	SW8260D	
Acrylonitrile	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Benzene	ND	0.70	ug/L	1	11/26/24	MH	SW8260D	
Bromobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Bromochloromethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Bromodichloromethane	ND	0.50	ug/L	1	11/26/24	MH	SW8260D	
Bromoform	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Bromomethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Carbon Disulfide	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Chlorobenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Chloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Chloroform	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Chloromethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
cis-1,2-Dichloroethene	1.6	1.0	ug/L	1	11/26/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/26/24	MH	SW8260D	
Dibromochloromethane	ND	0.50	ug/L	1	11/26/24	MH	SW8260D	
Dibromomethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Ethylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	ug/L	1	11/26/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
m&p-Xylene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Methylene chloride	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Naphthalene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
o-Xylene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Styrene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/26/24	MH	SW8260D	1
Toluene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Total Xylenes	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/26/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Trichloroethene	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Vinyl chloride	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	104		%	1	11/26/24	MH	70 - 130 %	

Project ID: WESTCHESTER AIRPORT
Client ID: B-2

Phoenix I.D.: CS13580

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	91		%	1	11/26/24	MH	70 - 130 %	
% Dibromofluoromethane	105		%	1	11/26/24	MH	70 - 130 %	
% Toluene-d8	101		%	1	11/26/24	MH	70 - 130 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/26/24	MH	SW8260D	
Acrolein	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Acrylonitrile	ND	5.0	ug/L	1	11/26/24	MH	SW8260D	
Tert-butyl alcohol	ND	50	ug/L	1	11/26/24	MH	SW8260D	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	12/02/24	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
1,2-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
1,3-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
1,4-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Chloronaphthalene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Chlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Nitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	12/02/24	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
3-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Chloroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Nitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Acetophenone	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Aniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Benzidine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Benzoic acid	ND	47	ug/L	1	12/02/24	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Carbazole	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Dibenzofuran	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Dimethylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Di-n-butylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Di-n-octylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Hexachloroethane	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E
Isophorone	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E
Phenol	4.2	0.94	ug/L	1	12/02/24	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	104		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	49		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	75		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	55		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	12/02/24	KCA	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Chrysene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.38	ug/L	1	12/02/24	KCA	SW8270E (SIM)
N-Nitrosodimethylamine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Phenanthrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyridine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	64		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	68		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	61		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	94		%	1	12/02/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

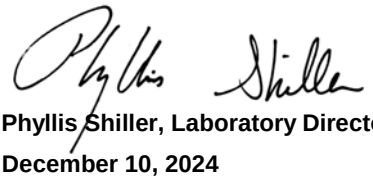
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	12:20
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13581

Project ID: WESTCHESTER AIRPORT
Client ID: B-3 (3-5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	15300	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	2.31	0.77	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	119	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.44	0.31	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	1530	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.38	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	12.5	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	29.3	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	18.9	0.8	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	25300	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	4000	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Magnesium	5010	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Manganese	416	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	154	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	19.2	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	9.12	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.8	3.8	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 1.5	1.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.4	3.4	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	42.3	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	86.8	0.8	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	86		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/F	SW3546	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/F	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	61		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	54		%	10	12/03/24	SC	30 - 150 %
% TCMX	80		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDE	9.5	2.3	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	12/03/24	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	12/03/24	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	12/03/24	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	12/03/24	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/03/24	AW	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	12/03/24	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	12/03/24	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/03/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	40		%	2	12/03/24	AW	30 - 150 %
% DCBP (Confirmation)	31		%	2	12/03/24	AW	30 - 150 %
% TCMX	60		%	2	12/03/24	AW	30 - 150 %
% TCMX (Confirmation)	88		%	2	12/03/24	AW	30 - 150 %

Project ID: WESTCHESTER AIRPORT
Client ID: B-3 (3-5`)

Phoenix I.D.: CS13581

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND	27	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND	27	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	ND	27	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	27	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	85		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	11/23/24	JLI	70 - 130 %

Volatiles

1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.3	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	85		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	11/23/24	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	12/03/24	MR	SW8270E

Project ID: WESTCHESTER AIRPORT
Client ID: B-3 (3-5`)

Phoenix I.D.: CS13581

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
1,4-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrophenol	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitroaniline	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
3-Nitroaniline	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitroaniline	ND	610	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitrophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Aniline	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
Anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benz(a)anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzidine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(a)pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzoic acid	ND	760	ug/Kg	1	12/03/24	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
Carbazole	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	
Chrysene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenzofuran	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Diethyl phthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dimethylphthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Di-n-butylphthalate	ND	380	ug/Kg	1	12/03/24	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodimethylamine	ND	380	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	12/03/24	MR	SW8270E
Pentachloronitrobenzene	ND	380	ug/Kg	1	12/03/24	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	12/03/24	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Phenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Pyridine	ND	380	ug/Kg	1	12/03/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	12/03/24	MR	30 - 130 %
% Nitrobenzene-d5	66		%	1	12/03/24	MR	30 - 130 %
% Phenol-d5	60		%	1	12/03/24	MR	30 - 130 %
% Terphenyl-d14	67		%	1	12/03/24	MR	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

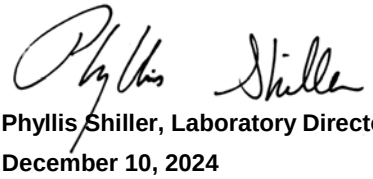
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
December 10, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		11/19/24	12:35
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13582

Project ID: WESTCHESTER AIRPORT
Client ID: B-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				11/25/24	Z/MQ	SW3520C
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dibromoethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D [1]

Project ID: WESTCHESTER AIRPORT
Client ID: B-3

Phoenix I.D.: CS13582

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acetone	ND	25	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Benzene	ND	0.70	ug/L	1	11/23/24	MH	SW8260D	
Bromobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromochloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromodichloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Bromoform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon Disulfide	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Dibromochloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Dibromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Ethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
m&p-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methylene chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Naphthalene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
o-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Styrene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/23/24	MH	SW8260D	1
Toluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Total Xylenes	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Trichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Vinyl chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108		%	1	11/23/24	MH	70 - 130 %	

Project ID: WESTCHESTER AIRPORT
Client ID: B-3

Phoenix I.D.: CS13582

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	90		%	1	11/23/24	MH	70 - 130 %	
% Dibromofluoromethane	104		%	1	11/23/24	MH	70 - 130 %	
% Toluene-d8	101		%	1	11/23/24	MH	70 - 130 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Acrolein	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Tert-butyl alcohol	ND	50	ug/L	1	11/23/24	MH	SW8260D	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	12/03/24	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
1,3-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,4-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Chloronaphthalene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Chlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	12/03/24	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
3-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Acetophenone	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Aniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Benzidine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Benzoic acid	ND	47	ug/L	1	12/03/24	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Carbazole	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Dibenzofuran	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Dimethylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Di-n-butylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Di-n-octylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Hexachloroethane	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E
Isophorone	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E
Phenol	3.6	0.94	ug/L	1	12/03/24	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	1	12/03/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	12/03/24	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	12/03/24	KCA	15 - 110 %
% Nitrobenzene-d5	77		%	1	12/03/24	KCA	30 - 130 %
% Phenol-d5	58		%	1	12/03/24	KCA	15 - 110 %
% Terphenyl-d14	43		%	1	12/03/24	KCA	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthylene	1.1	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Anthracene	1.0	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benz(a)anthracene	1.3	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(a)pyrene	1.1	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	0.67	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(ghi)perylene	0.80	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	0.73	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Chrysene	1.3	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluoranthene	2.8	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	0.90	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.38	ug/L	1	12/02/24	KCA	SW8270E (SIM)
N-Nitrosodimethylamine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Phenanthrene	1.5	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyrene	3.4	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyridine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	60		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	69		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	63		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	12/02/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

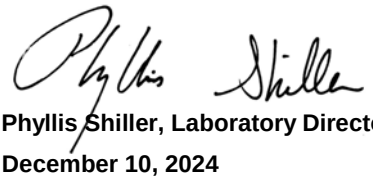
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	13:50
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13583

Project ID: WESTCHESTER AIRPORT
Client ID: B-4 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.35	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	16900	53	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	1.80	0.70	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	141	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.44	0.28	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	1260	5.3	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.35	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	13.8	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	28.7	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	22.9	0.7	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	30000	53	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	6040	53	mg/Kg	10	11/27/24	CPP	SW6010D	
Magnesium	6500	53	mg/Kg	10	11/27/24	CPP	SW6010D	
Manganese	384	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	281	5.3	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	23.3	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	7.25	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.5	3.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 1.4	1.4	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.2	3.2	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	45.5	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	60.4	0.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	86		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/F	SW3546	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/F	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	50		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	47		%	10	12/03/24	SC	30 - 150 %
% TCMX	70		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.3	ug/Kg	2	12/03/24	CN	SW8081B
4,4' -DDE	ND	2.3	ug/Kg	2	12/03/24	CN	SW8081B
4,4' -DDT	ND	2.3	ug/Kg	2	12/03/24	CN	SW8081B
a-BHC	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
a-Chlordane	ND	3.8	ug/Kg	2	12/03/24	CN	SW8081B
Aldrin	ND	3.8	ug/Kg	2	12/03/24	CN	SW8081B
b-BHC	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Chlordane	ND	38	ug/Kg	2	12/03/24	CN	SW8081B
d-BHC	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	12/03/24	CN	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Endrin	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/03/24	CN	SW8081B
g-Chlordane	ND	3.8	ug/Kg	2	12/03/24	CN	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	12/03/24	CN	SW8081B
Methoxychlor	ND	38	ug/Kg	2	12/03/24	CN	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/03/24	CN	SW8081B
QA/QC Surrogates							
% DCBP	33		%	2	12/03/24	CN	30 - 150 %
% DCBP (Confirmation)	27		%	2	12/03/24	CN	30 - 150 %
% TCMX	52		%	2	12/03/24	CN	30 - 150 %
% TCMX (Confirmation)	62		%	2	12/03/24	CN	30 - 150 %

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Project ID: WESTCHESTER AIRPORT
Client ID: B-4 (8-10`)

Phoenix I.D.: CS13583

Parameter	Result		RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND		27	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND		27	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	33	S	27	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND		11	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND		5.5	ug/Kg	1	11/23/24	JLI	SW8260D	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	27	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	78		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/23/24	JLI	70 - 130 %

Volatiles

1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.5	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	78		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/23/24	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	12/03/24	MR	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
1,4-Dichlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dichlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dimethylphenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrophenol	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chloronaphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chlorophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylnaphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitroaniline	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitrophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
3-Nitroaniline	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloroaniline	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitroaniline	ND	620	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitrophenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthylene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Acetophenone	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Aniline	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
Anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benz(a)anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzidine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(a)pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Benzoic acid	ND	770	ug/Kg	1	12/03/24	MR	SW8270E	
Benzyl butyl phthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
Carbazole	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	
Chrysene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenzofuran	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Diethyl phthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Dimethylphthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E	
Di-n-butylphthalate	ND	390	ug/Kg	1	12/03/24	MR	SW8270E	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobutadiene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Nitrobenzene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodimethylamine	ND	390	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	12/03/24	MR	SW8270E
Pentachloronitrobenzene	ND	390	ug/Kg	1	12/03/24	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	12/03/24	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Phenol	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	12/03/24	MR	SW8270E
Pyridine	ND	390	ug/Kg	1	12/03/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	45		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl	43		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorophenol	41		%	1	12/03/24	MR	30 - 130 %
% Nitrobenzene-d5	47		%	1	12/03/24	MR	30 - 130 %
% Phenol-d5	42		%	1	12/03/24	MR	30 - 130 %
% Terphenyl-d14	49		%	1	12/03/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

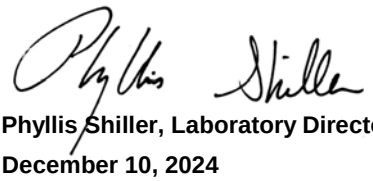
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
December 10, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		11/19/24	14:15
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13584

Project ID: WESTCHESTER AIRPORT
Client ID: B-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				11/25/24	Z/MQ	SW3520C
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dibromoethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	11/23/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D [1]

Project ID: WESTCHESTER AIRPORT
Client ID: B-4

Phoenix I.D.: CS13584

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acetone	ND	25	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Benzene	ND	0.70	ug/L	1	11/23/24	MH	SW8260D	
Bromobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromochloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromodichloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Bromoform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon Disulfide	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Dibromochloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Dibromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Ethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
m&p-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methylene chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Naphthalene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
o-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Styrene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/23/24	MH	SW8260D	1
Toluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Total Xylenes	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Trichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Vinyl chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105		%	1	11/23/24	MH	70 - 130 %	

Project ID: WESTCHESTER AIRPORT
Client ID: B-4

Phoenix I.D.: CS13584

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	90		%	1	11/23/24	MH	70 - 130 %	
% Dibromofluoromethane	104		%	1	11/23/24	MH	70 - 130 %	
% Toluene-d8	102		%	1	11/23/24	MH	70 - 130 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Acrolein	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Tert-butyl alcohol	ND	50	ug/L	1	11/23/24	MH	SW8260D	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	12/02/24	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
1,2-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
1,3-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
1,4-Dichlorobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Chloronaphthalene	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Chlorophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
2-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
2-Nitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	12/02/24	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
3-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Chloroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
4-Nitroaniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
4-Nitrophenol	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Acetophenone	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Aniline	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Benzidine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Benzoic acid	ND	47	ug/L	1	12/02/24	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E	
Carbazole	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	
Dibenzofuran	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Dimethylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Di-n-butylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Di-n-octylphthalate	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Hexachloroethane	ND	0.94	ug/L	1	12/02/24	KCA	SW8270E
Isophorone	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	12/02/24	KCA	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	12/02/24	KCA	SW8270E
Phenol	3.5	0.94	ug/L	1	12/02/24	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	106		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	46		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	75		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	57		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	12/02/24	KCA	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benz(a)anthracene	0.05	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(a)pyrene	0.06	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	0.03	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	0.03	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Chrysene	0.06	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	0.04	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.38	ug/L	1	12/02/24	KCA	SW8270E (SIM)
N-Nitrosodimethylamine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Phenanthrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyridine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	67		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	64		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	91		%	1	12/02/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

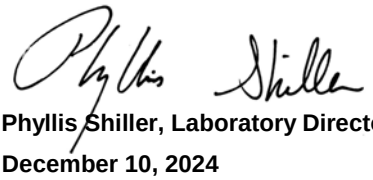
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	10:45
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13585

Project ID: WESTCHESTER AIRPORT
Client ID: B-5 (4-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	14200	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	1.61	0.76	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	87.1	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.40	0.30	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	2080	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.38	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	9.95	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	32.7	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	24.4	0.8	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	24700	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	2240	57	mg/Kg	10	11/27/24	CPP	SW6010D	
Magnesium	4800	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Manganese	483	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	757	5.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	16.2	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	5.46	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.8	3.8	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 1.5	1.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.4	3.4	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	43.8	0.38	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	44.2	0.8	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	90		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/F	SW3546	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/F	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	12/03/24	SC	30 - 150 %
% TCMX	82		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDE	26	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDT	24	2.2	ug/Kg	2	12/03/24	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	12/03/24	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/03/24	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	12/03/24	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/03/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	12/03/24	AW	30 - 150 %
% DCBP (Confirmation)	74		%	2	12/03/24	AW	30 - 150 %
% TCMX	57		%	2	12/03/24	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	12/03/24	AW	30 - 150 %

Project ID: WESTCHESTER AIRPORT
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND	24	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND	24	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	ND	24	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND	9.7	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	24	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	9.7	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	86		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/23/24	JLI	70 - 130 %

Volatiles

1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	4.8	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	86		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/23/24	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	12/03/24	MR	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrophenol	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitroaniline	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3-Nitroaniline	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitroaniline	ND	580	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Aniline	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
Anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benz(a)anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(a)pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzoic acid	ND	730	ug/Kg	1	12/03/24	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	2600	360	ug/Kg	1	12/03/24	MR	SW8270E	
Carbazole	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	
Chrysene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dimethylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Di-n-butylphthalate	ND	360	ug/Kg	1	12/03/24	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	12/03/24	MR	SW8270E
Pentachloronitrobenzene	ND	360	ug/Kg	1	12/03/24	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	12/03/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Pyridine	ND	360	ug/Kg	1	12/03/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	53		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl	49		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorophenol	47		%	1	12/03/24	MR	30 - 130 %
% Nitrobenzene-d5	53		%	1	12/03/24	MR	30 - 130 %
% Phenol-d5	49		%	1	12/03/24	MR	30 - 130 %
% Terphenyl-d14	57		%	1	12/03/24	MR	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

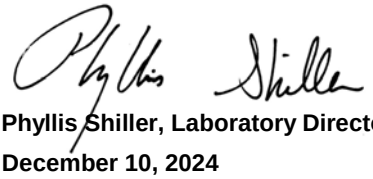
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
December 10, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		11/19/24	10:50
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13586

Project ID: WESTCHESTER AIRPORT
Client ID: B-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/25/24	Z/MQ	SW3520C	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2-Hexanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	1

Project ID: WESTCHESTER AIRPORT
Client ID: B-5

Phoenix I.D.: CS13586

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acetone	ND	25	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Benzene	ND	0.70	ug/L	1	11/23/24	MH	SW8260D	
Bromobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromochloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromodichloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Bromoform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon Disulfide	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Dibromochloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Dibromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Ethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
m&p-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methylene chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Naphthalene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
o-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Styrene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/23/24	MH	SW8260D	1
Toluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Total Xylenes	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Trichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Vinyl chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105		%	1	11/23/24	MH	70 - 130 %	

Project ID: WESTCHESTER AIRPORT
Client ID: B-5

Phoenix I.D.: CS13586

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	89		%	1	11/23/24	MH	70 - 130 %	
% Dibromofluoromethane	107		%	1	11/23/24	MH	70 - 130 %	
% Toluene-d8	106		%	1	11/23/24	MH	70 - 130 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Acrolein	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Tert-butyl alcohol	ND	50	ug/L	1	11/23/24	MH	SW8260D	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	12/03/24	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
1,3-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,4-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
2-Chloronaphthalene	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
2-Chlorophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitroaniline	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitrophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	12/03/24	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
3-Nitroaniline	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloroaniline	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitroaniline	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitrophenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
Acetophenone	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Aniline	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Benzidine	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Benzoic acid	ND	48	ug/L	1	12/03/24	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E	
Carbazole	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	
Dibenzofuran	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
Dimethylphthalate	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
Di-n-butylphthalate	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
Di-n-octylphthalate	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
Hexachloroethane	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E
Isophorone	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	12/03/24	KCA	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E
Phenol	ND	0.95	ug/L	1	12/03/24	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	12/03/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	61		%	1	12/03/24	KCA	30 - 130 %
% 2-Fluorophenol	52		%	1	12/03/24	KCA	15 - 110 %
% Nitrobenzene-d5	72		%	1	12/03/24	KCA	30 - 130 %
% Phenol-d5	55		%	1	12/03/24	KCA	15 - 110 %
% Terphenyl-d14	53		%	1	12/03/24	KCA	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthylene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Anthracene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benz(a)anthracene	ND	0.03	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Chrysene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluoranthene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluorene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Naphthalene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.38	ug/L	1	12/02/24	KCA	SW8270E (SIM)
N-Nitrosodimethylamine	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Phenanthrene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyrene	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyridine	ND	0.48	ug/L	1	12/02/24	KCA	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	65		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	66		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	64		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	59		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	72		%	1	12/02/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

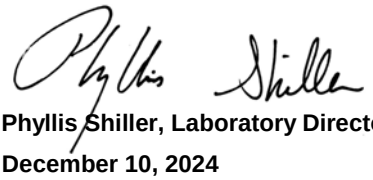
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/19/24	8:15
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13587

Project ID: WESTCHESTER AIRPORT
Client ID: B-6 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.35	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Aluminum	21400	52	mg/Kg	10	11/27/24	CPP	SW6010D	
Arsenic	1.15	0.69	mg/Kg	1	11/27/24	CPP	SW6010D	
Barium	163	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Beryllium	0.76	0.28	mg/Kg	1	11/27/24	CPP	SW6010D	
Calcium	1040	5.2	mg/Kg	1	11/27/24	CPP	SW6010D	
Cadmium	< 0.35	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Cobalt	29.3	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Chromium	37.5	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Copper	58.7	0.7	mg/kg	1	11/27/24	CPP	SW6010D	
Iron	37800	52	mg/Kg	10	11/27/24	CPP	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	12/02/24	ZT	SW7471B	
Potassium	11100	520	mg/Kg	100	12/02/24	TH	SW6010D	
Magnesium	9620	52	mg/Kg	10	11/27/24	CPP	SW6010D	
Manganese	1000	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Sodium	517	5.2	mg/Kg	1	11/27/24	CPP	SW6010D	
Nickel	31.3	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Lead	9.33	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Antimony	< 3.5	3.5	mg/Kg	1	11/27/24	CPP	SW6010D	
Selenium	< 2.0	2.0	mg/Kg	1	11/27/24	CPP	SW6010D	
Thallium	< 3.1	3.1	mg/Kg	1	11/27/24	CPP	SW6010D	
Vanadium	64.3	0.35	mg/Kg	1	11/27/24	CPP	SW6010D	
Zinc	83.7	0.7	mg/Kg	1	11/27/24	CPP	SW6010D	
Percent Solid	89		%		11/21/24	CV	SW846-%Solid	
Field Extraction	Completed				11/19/24		SW5035A	1
Mercury Digestion	Completed				11/26/24	AC1/AC1	SW7471B	
Soil Extraction for PCB	Completed				12/02/24	H/F	SW3546	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed				12/02/24	H/F	SW3546
Soil Extraction for SVOA	Completed				12/02/24	X/U	SW3546
Total Metals Digest	Completed				11/26/24	N/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/03/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	52		%	10	12/03/24	SC	30 - 150 %
% DCBP (Confirmation)	54		%	10	12/03/24	SC	30 - 150 %
% TCMX	74		%	10	12/03/24	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	12/03/24	SC	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDE	ND	2.2	ug/Kg	2	12/03/24	AW	SW8081B
4,4' -DDT	ND	2.2	ug/Kg	2	12/03/24	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	12/03/24	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/03/24	AW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	12/03/24	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	12/03/24	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/03/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	47		%	2	12/03/24	AW	30 - 150 %
% DCBP (Confirmation)	39		%	2	12/03/24	AW	30 - 150 %
% TCMX	63		%	2	12/03/24	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	12/03/24	AW	30 - 150 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloroethene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,1-Dichloropropene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dibromoethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,2-Dichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,3-Dichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
2,2-Dichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Chlorotoluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Hexanone	ND	28	ug/Kg	1	11/23/24	JLI	SW8260D	
2-Isopropyltoluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	1
4-Chlorotoluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
4-Methyl-2-pentanone	ND	28	ug/Kg	1	11/23/24	JLI	SW8260D	
Acetone	ND	28	ug/Kg	1	11/23/24	JLI	SW8260D	
Acrylonitrile	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D	
Benzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromochloromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromodichloromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromoform	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Bromomethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon Disulfide	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Carbon tetrachloride	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Chlorobenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloroform	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Chloromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromochloromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Dibromomethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Ethylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Hexachlorobutadiene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	
Isopropylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	28	ug/Kg	1	11/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Naphthalene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
o-Xylene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Styrene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Toluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Total Xylenes	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/23/24	JLI	SW8260D
Trichloroethene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
Vinyl chloride	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	83		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/23/24	JLI	70 - 130 %
Volatiles							
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	11/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	11/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/23/24	JLI	70 - 130 %
% Dibromofluoromethane	83		%	1	11/23/24	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/23/24	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,3-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
1,4-Dichlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dichlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dimethylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrophenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
2,4-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2,6-Dinitrotoluene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chloronaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Chlorophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylnaphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitroaniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
2-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
3-Nitroaniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chloroaniline	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitroaniline	ND	600	ug/Kg	1	12/03/24	MR	SW8270E	
4-Nitrophenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acenaphthylene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Acetophenone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Aniline	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benz(a)anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzidine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(a)pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(b)fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(ghi)perylene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzo(k)fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Benzoic acid	ND	750	ug/Kg	1	12/03/24	MR	SW8270E	
Benzyl butyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Carbazole	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	
Chrysene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dibenzofuran	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Diethyl phthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Dimethylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E	
Di-n-butylphthalate	ND	370	ug/Kg	1	12/03/24	MR	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorobutadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Nitrobenzene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodimethylamine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Pentachloronitrobenzene	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	12/03/24	MR	SW8270E
Pyridine	ND	370	ug/Kg	1	12/03/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	49		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorobiphenyl	47		%	1	12/03/24	MR	30 - 130 %
% 2-Fluorophenol	45		%	1	12/03/24	MR	30 - 130 %
% Nitrobenzene-d5	51		%	1	12/03/24	MR	30 - 130 %
% Phenol-d5	47		%	1	12/03/24	MR	30 - 130 %
% Terphenyl-d14	52		%	1	12/03/24	MR	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

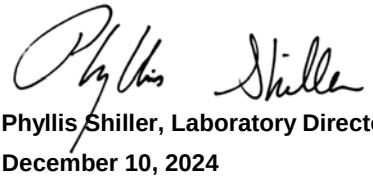
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
December 10, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 10, 2024

FOR: Attn: Ariel Czemerinski
AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		11/19/24	8:40
Location Code:	AMC-ENG	Received by:	B	11/21/24	19:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS13578
Phoenix ID: CS13588

Project ID: WESTCHESTER AIRPORT
Client ID: B-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/25/24	Z/MQ	SW3520C	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	ug/L	1	11/23/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
2-Hexanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	1

Project ID: WESTCHESTER AIRPORT
Client ID: B-6

Phoenix I.D.: CS13588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acetone	ND	25	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Benzene	ND	0.70	ug/L	1	11/23/24	MH	SW8260D	
Bromobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromochloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromodichloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Bromoform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Bromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon Disulfide	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chlorobenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloroform	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Chloromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Dibromochloromethane	ND	0.50	ug/L	1	11/23/24	MH	SW8260D	
Dibromomethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Ethylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
m&p-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Methylene chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Naphthalene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
o-Xylene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Styrene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/23/24	MH	SW8260D	1
Toluene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Total Xylenes	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/23/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Trichloroethene	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Vinyl chloride	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	107		%	1	11/23/24	MH	70 - 130 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	91		%	1	11/23/24	MH	70 - 130 %	
% Dibromofluoromethane	115		%	1	11/23/24	MH	70 - 130 %	
% Toluene-d8	104		%	1	11/23/24	MH	70 - 130 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/23/24	MH	SW8260D	
Acrolein	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Acrylonitrile	ND	5.0	ug/L	1	11/23/24	MH	SW8260D	
Tert-butyl alcohol	ND	50	ug/L	1	11/23/24	MH	SW8260D	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	12/03/24	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
1,3-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
1,4-Dichlorobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Chloronaphthalene	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Chlorophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
2-Nitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	12/03/24	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
3-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Chloroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitroaniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
4-Nitrophenol	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Acetophenone	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Aniline	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Benzidine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Benzoic acid	ND	47	ug/L	1	12/03/24	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E	
Carbazole	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	
Dibenzofuran	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Dimethylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Di-n-butylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Di-n-octylphthalate	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Hexachloroethane	ND	0.94	ug/L	1	12/03/24	KCA	SW8270E
Isophorone	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	12/03/24	KCA	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	12/03/24	KCA	SW8270E
Phenol	1.2	0.94	ug/L	1	12/03/24	KCA	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	1	12/03/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	12/03/24	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	12/03/24	KCA	15 - 110 %
% Nitrobenzene-d5	75		%	1	12/03/24	KCA	30 - 130 %
% Phenol-d5	62		%	1	12/03/24	KCA	15 - 110 %
% Terphenyl-d14	69		%	1	12/03/24	KCA	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Acenaphthylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Chrysene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.38	ug/L	1	12/02/24	KCA	SW8270E (SIM)
N-Nitrosodimethylamine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Phenanthrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
Pyridine	ND	0.47	ug/L	1	12/02/24	KCA	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	12/02/24	KCA	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	12/02/24	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	12/02/24	KCA	15 - 110 %
% Nitrobenzene-d5	69		%	1	12/02/24	KCA	30 - 130 %
% Phenol-d5	63		%	1	12/02/24	KCA	15 - 110 %
% Terphenyl-d14	91		%	1	12/02/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

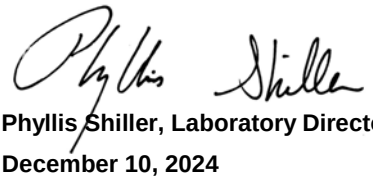
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 10, 2024

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 10, 2024

QA/QC Data

SDG I.D.: GCS13578

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 760059 (mg/kg), QC Sample No: CS13111 2X (CS13578, CS13579, CS13581, CS13583, CS13585, CS13587)														
Mercury - Soil	BRL	0.03	0.28	0.26	7.40	98.2	95.1	3.2	>125	>125	NC	70 - 130	30	m
Comment: Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.														
QA/QC Batch 760080 (mg/kg), QC Sample No: CS12973 (CS13578, CS13579, CS13581, CS13583, CS13585, CS13587)														
ICP Metals - Soil														
Aluminum	BRL	5.0	7250	6910	4.80	107	103	3.8	NC			75 - 125	30	
Antimony	BRL	3.3	<3.4	<3.6	NC	89.1	87.4	1.9	92.2			75 - 125	30	
Arsenic	BRL	0.67	5.25	4.06	25.6	99.4	96.2	3.3	97.7			75 - 125	30	
Barium	BRL	0.33	25.7	22.6	12.8	107	99.4	7.4	102			75 - 125	30	
Beryllium	BRL	0.27	0.45	0.41	NC	105	104	1.0	103			75 - 125	30	
Cadmium	BRL	0.33	<0.34	<0.36	NC	103	102	1.0	101			75 - 125	30	
Calcium	BRL	5.0	2170	1980	9.20	105	103	1.9	NC			75 - 125	30	
Chromium	BRL	0.33	12.8	12.9	0.80	105	102	2.9	102			75 - 125	30	
Cobalt	BRL	0.33	6.87	5.15	28.6	105	102	2.9	101			75 - 125	30	
Copper	BRL	0.67	10.2	8.56	17.5	104	101	2.9	102			75 - 125	30	
Iron	BRL	5.0	11500	11300	1.80	109	105	3.7	NC			75 - 125	30	
Lead	BRL	0.33	13.7	12.5	9.20	107	104	2.8	101			75 - 125	30	
Magnesium	BRL	5.0	2260	2530	11.3	108	105	2.8	NC			75 - 125	30	
Manganese	BRL	0.33	246	190	25.7	120	113	6.0	52.9			75 - 125	30	m
Nickel	BRL	0.33	10.9	9.23	16.6	108	105	2.8	102			75 - 125	30	
Potassium	BRL	5.0	835	874	4.60	104	103	1.0	128			75 - 125	30	m
Selenium	BRL	1.3	<1.3	<1.4	NC	90.1	86.8	3.7	87.0			75 - 125	30	
Silver	BRL	0.33	<0.34	<0.36	NC	103	99.8	3.2	99.8			75 - 125	30	
Sodium	BRL	5.0	440	397	10.3	109	108	0.9	>130			75 - 125	30	m
Thallium	BRL	3.0	<3.0	<3.2	NC	102	101	1.0	101			75 - 125	30	
Vanadium	BRL	0.33	18.3	19.1	4.30	104	102	1.9	102			75 - 125	30	
Zinc	BRL	0.67	43.2	41.5	4.00	102	101	1.0	96.2			75 - 125	30	
Comment: Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.														

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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NY # 11301

QA/QC Report

December 10, 2024

QA/QC Data

SDG I.D.: GCS13578

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 760531 (ug/Kg), QC Sample No: CS13111 2X (CS13578)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	117	99	16.7	86	82	4.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	119	101	16.4	88	78	12.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	93	%	110	119	7.9	106	91	15.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	101	%	106	118	10.7	101	87	14.9	30 - 150	30
% TCMX (Surrogate Rec)	89	%	99	103	4.0	98	88	10.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	89	%	101	105	3.9	100	88	12.8	30 - 150	30
QA/QC Batch 760572 (ug/Kg), QC Sample No: CS16026 2X (CS13579, CS13581, CS13583, CS13585, CS13587)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	85	72	16.6	97	86	12.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	80	74	7.8	91	80	12.9	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	68	%	87	67	26.0	97	85	13.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	68	%	93	73	24.1	102	88	14.7	30 - 150	30
% TCMX (Surrogate Rec)	69	%	87	75	14.8	99	86	14.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	68	%	90	73	20.9	107	89	18.4	30 - 150	30
QA/QC Batch 760534 (ug/Kg), QC Sample No: CS13111 2X (CS13578)										
Pesticides - Soil										
4,4' -DDD	ND	1.7	79	73	7.9	83	80	3.7	40 - 140	30
4,4' -DDE	ND	1.7	80	74	7.8	66	67	1.5	40 - 140	30
4,4' -DDT	ND	1.7	71	66	7.3	131	114	13.9	40 - 140	30
a-BHC	ND	1.0	74	70	5.6	53	59	10.7	40 - 140	30
a-Chlordane	ND	3.3	82	78	5.0	64	64	0.0	40 - 140	30
Aldrin	ND	1.0	80	76	5.1	59	66	11.2	40 - 140	30
b-BHC	ND	1.0	75	71	5.5	60	61	1.7	40 - 140	30
Chlordane	ND	33	83	78	6.2	64	69	7.5	40 - 140	30
d-BHC	ND	3.3	59	54	8.8	48	46	4.3	40 - 140	30
Dieldrin	ND	1.0	83	77	7.5	70	71	1.4	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endosulfan I	ND	3.3	83	76	8.8	59	66	11.2	40 - 140	30	
Endosulfan II	ND	3.3	81	73	10.4	65	66	1.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	73	67	8.6	60	59	1.7	40 - 140	30	
Endrin	ND	3.3	79	73	7.9	62	64	3.2	40 - 140	30	
Endrin aldehyde	ND	3.3	77	70	9.5	48	51	6.1	40 - 140	30	
Endrin ketone	ND	3.3	86	73	16.4	70	69	1.4	40 - 140	30	
g-BHC	ND	1.0	82	77	6.3	64	86	29.3	40 - 140	30	
g-Chlordane	ND	3.3	83	78	6.2	64	69	7.5	40 - 140	30	
Heptachlor	ND	3.3	76	73	4.0	60	62	3.3	40 - 140	30	
Heptachlor epoxide	ND	3.3	72	68	5.7	56	58	3.5	40 - 140	30	
Methoxychlor	ND	3.3	80	73	9.2	67	67	0.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	79	%	80	75	6.5	68	70	2.9	30 - 150	30	
% DCBP (Confirmation)	61	%	63	59	6.6	57	58	1.7	30 - 150	30	
% TCMX	78	%	80	78	2.5	65	70	7.4	30 - 150	30	
% TCMX (Confirmation)	96	%	81	86	6.0	73	73	0.0	30 - 150	30	

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 760573 (ug/Kg), QC Sample No: CS16026 2X (CS13579, CS13581, CS13583, CS13585, CS13587)

Pesticides - Soil

4,4' -DDD	ND	1.7	59	50	16.5	61	52	15.9	40 - 140	30	
4,4' -DDE	ND	1.7	64	53	18.8	62	58	6.7	40 - 140	30	
4,4' -DDT	ND	1.7	52	44	16.7	55	51	7.5	40 - 140	30	
a-BHC	ND	1.0	47	37	23.8	55	55	0.0	40 - 140	30	l
a-Chlordane	ND	3.3	69	55	22.6	69	64	7.5	40 - 140	30	
Aldrin	ND	1.0	65	53	20.3	64	61	4.8	40 - 140	30	
b-BHC	ND	1.0	62	50	21.4	61	58	5.0	40 - 140	30	
Chlordane	ND	33	67	55	19.7	68	64	6.1	40 - 140	30	
d-BHC	ND	3.3	14	15	6.9	55	48	13.6	40 - 140	30	l
Dieldrin	ND	1.0	67	55	19.7	66	60	9.5	40 - 140	30	
Endosulfan I	ND	3.3	55	43	24.5	64	61	4.8	40 - 140	30	
Endosulfan II	ND	3.3	60	44	30.8	61	58	5.0	40 - 140	30	r
Endosulfan sulfate	ND	3.3	53	42	23.2	57	51	11.1	40 - 140	30	
Endrin	ND	3.3	62	51	19.5	61	56	8.5	40 - 140	30	
Endrin aldehyde	ND	3.3	54	42	25.0	53	49	7.8	40 - 140	30	
Endrin ketone	ND	3.3	60	54	10.5	62	57	8.4	40 - 140	30	
g-BHC	ND	1.0	55	39	34.0	65	62	4.7	40 - 140	30	l,r
g-Chlordane	ND	3.3	67	55	19.7	68	64	6.1	40 - 140	30	
Heptachlor	ND	3.3	60	49	20.2	61	58	5.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	59	48	20.6	58	55	5.3	40 - 140	30	
Methoxychlor	ND	3.3	55	50	9.5	59	52	12.6	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	62	%	67	57	16.1	65	60	8.0	30 - 150	30	
% DCBP (Confirmation)	45	%	55	46	17.8	54	51	5.7	30 - 150	30	
% TCMX	58	%	70	57	20.5	64	62	3.2	30 - 150	30	
% TCMX (Confirmation)	71	%	71	60	16.8	66	67	1.5	30 - 150	30	

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 760539 (ug/kg), QC Sample No: CS12914 (CS13578, CS13579, CS13581, CS13583, CS13585, CS13587)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	54	61	12.2	52	61	15.9	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	53	60	12.4	51	60	16.2	40 - 140	30	
1,2-Dichlorobenzene	ND	180	47	53	12.0	44	51	14.7	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	50	58	14.8	48	58	18.9	40 - 140	30	
1,3-Dichlorobenzene	ND	230	46	52	12.2	43	50	15.1	40 - 140	30	
1,4-Dichlorobenzene	ND	230	47	53	12.0	44	51	14.7	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	42	49	15.4	41	49	17.8	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	60	69	14.0	59	71	18.5	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	63	71	11.9	63	75	17.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	63	73	14.7	63	75	17.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	62	72	14.9	63	76	18.7	30 - 130	30	
2,4-Dinitrophenol	ND	230	31	42	30.1	62	70	12.1	30 - 130	30	
2,4-Dinitrotoluene	ND	130	61	70	13.7	57	69	19.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	67	76	12.6	63	77	20.0	40 - 140	30	
2-Chloronaphthalene	ND	230	52	59	12.6	50	59	16.5	40 - 140	30	
2-Chlorophenol	ND	230	53	61	14.0	53	63	17.2	30 - 130	30	
2-Methylnaphthalene	ND	230	57	66	14.6	56	66	16.4	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	52	60	14.3	52	64	20.7	40 - 140	30	
2-Nitroaniline	ND	330	73	85	15.2	66	79	17.9	40 - 140	30	
2-Nitrophenol	ND	230	61	71	15.2	59	72	19.8	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	55	64	15.1	55	67	19.7	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	85	97	13.2	76	96	23.3	40 - 140	30	
3-Nitroaniline	ND	330	71	80	11.9	63	74	16.1	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	46	58	23.1	59	69	15.6	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	54	63	15.4	53	64	18.8	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	65	75	14.3	64	78	19.7	30 - 130	30	
4-Chloroaniline	ND	230	60	68	12.5	50	59	16.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	53	61	14.0	51	60	16.2	40 - 140	30	
4-Nitroaniline	ND	230	56	67	17.9	55	67	19.7	40 - 140	30	
4-Nitrophenol	ND	230	63	78	21.3	76	94	21.2	30 - 130	30	
Acenaphthene	ND	230	51	58	12.8	49	59	18.5	30 - 130	30	
Acenaphthylene	ND	130	50	57	13.1	48	57	17.1	40 - 140	30	
Acetophenone	ND	230	48	55	13.6	47	55	15.7	40 - 140	30	
Aniline	ND	330	50	56	11.3	41	51	21.7	40 - 140	30	
Anthracene	ND	230	54	63	15.4	53	62	15.7	40 - 140	30	
Benz(a)anthracene	ND	230	59	68	14.2	57	68	17.6	40 - 140	30	
Benzidine	ND	330	48	60	22.2	<10	<10	NC	40 - 140	30	m
Benzo(a)pyrene	ND	130	57	66	14.6	56	66	16.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	59	68	14.2	58	69	17.3	40 - 140	30	
Benzo(ghi)perylene	ND	230	55	64	15.1	52	62	17.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	56	65	14.9	53	63	17.2	40 - 140	30	
Benzoic Acid	ND	670	52	61	15.9	91	109	18.0	30 - 130	30	
Benzyl butyl phthalate	ND	230	56	66	16.4	55	67	19.7	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	55	63	13.6	53	63	17.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	47	55	15.7	46	54	16.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	56	66	16.4	57	69	19.0	40 - 140	30	
Carbazole	ND	230	59	69	15.6	57	67	16.1	40 - 140	30	
Chrysene	ND	230	55	63	13.6	53	63	17.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	53	61	14.0	51	60	16.2	40 - 140	30	
Dibenzofuran	ND	230	54	61	12.2	51	61	17.9	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Diethyl phthalate	ND	230	57	65	13.1	53	64	18.8	40 - 140	30	
Dimethylphthalate	ND	230	56	64	13.3	53	63	17.2	40 - 140	30	
Di-n-butylphthalate	ND	670	59	69	15.6	56	66	16.4	40 - 140	30	
Di-n-octylphthalate	ND	230	60	70	15.4	59	70	17.1	40 - 140	30	
Fluoranthene	ND	230	57	66	14.6	56	65	14.9	40 - 140	30	
Fluorene	ND	230	55	63	13.6	53	63	17.2	40 - 140	30	
Hexachlorobenzene	ND	130	50	59	16.5	48	58	18.9	40 - 140	30	
Hexachlorobutadiene	ND	230	53	59	10.7	51	58	12.8	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	37	47	23.8	43	49	13.0	40 - 140	30	l
Hexachloroethane	ND	130	48	55	13.6	46	53	14.1	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	52	60	14.3	50	58	14.8	40 - 140	30	
Isophorone	ND	130	51	59	14.5	50	60	18.2	40 - 140	30	
Naphthalene	ND	230	52	59	12.6	50	58	14.8	40 - 140	30	
Nitrobenzene	ND	130	52	61	15.9	50	61	19.8	40 - 140	30	
N-Nitrosodimethylamine	ND	230	46	51	10.3	42	50	17.4	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	51	59	14.5	50	61	19.8	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	55	63	13.6	52	63	19.1	40 - 140	30	
Pentachloronitrobenzene	ND	230	55	64	15.1	53	63	17.2	40 - 140	30	
Pentachlorophenol	ND	230	53	62	15.7	62	72	14.9	30 - 130	30	
Phenanthrene	ND	130	52	61	15.9	52	60	14.3	40 - 140	30	
Phenol	ND	230	57	66	14.6	56	67	17.9	30 - 130	30	
Pyrene	ND	230	55	64	15.1	53	63	17.2	30 - 130	30	
Pyridine	ND	230	38	41	7.6	35	40	13.3	40 - 140	30	l,m
% 2,4,6-Tribromophenol	58	%	49	61	21.8	50	65	26.1	30 - 130	30	
% 2-Fluorobiphenyl	57	%	49	57	15.1	47	58	21.0	30 - 130	30	
% 2-Fluorophenol	56	%	47	54	13.9	46	56	19.6	30 - 130	30	
% Nitrobenzene-d5	60	%	50	60	18.2	48	62	25.5	30 - 130	30	
% Phenol-d5	56	%	48	57	17.1	47	59	22.6	30 - 130	30	
% Terphenyl-d14	63	%	54	64	16.9	51	64	22.6	30 - 130	30	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 759931 (ug/L), QC Sample No: CS13283 (CS13580, CS13582, CS13584, CS13586, CS13588)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	77	77	0.0				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	71	72	1.4				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	59	64	8.1				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	79	80	1.3				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	57	61	6.8				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	60	63	4.9				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	58	61	5.0				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	70	73	4.2				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	75	78	3.9				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	81	82	1.2				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	82	84	2.4				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	70	75	6.9				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	84	86	2.4				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	74	79	6.5				40 - 140	20	
2-Chloronaphthalene	ND	3.5	69	72	4.3				40 - 140	20	
2-Chlorophenol	ND	1.0	62	66	6.3				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	68	74	8.5				40 - 140	20	
2-Nitroaniline	ND	3.5	102	113	10.2				40 - 140	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Nitrophenol	ND	1.0	98	101	3.0				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	70	77	9.5				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	23	24	4.3				40 - 140	20	I
3-Nitroaniline	ND	5.0	57	58	1.7				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	75	80	6.5				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	71	74	4.1				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	89	93	4.4				30 - 130	20	
4-Chloroaniline	ND	3.5	53	55	3.7				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	76	80	5.1				40 - 140	20	
4-Nitroaniline	ND	5.0	88	92	4.4				40 - 140	20	
4-Nitrophenol	ND	1.0	108	113	4.5				30 - 130	20	
Acetophenone	ND	3.5	69	74	7.0				40 - 140	20	
Aniline	ND	3.5	40	39	2.5				40 - 140	20	I
Benzidine	ND	4.5	36	32	11.8				40 - 140	20	I
Benzoic acid	ND	10	96	97	1.0				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	71	73	2.8				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	74	74	0.0				40 - 140	20	
Bis(2-chloroethyl)ether	ND	1.0	65	71	8.8				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	65	67	3.0				40 - 140	20	
Carbazole	ND	5.0	70	71	1.4				40 - 140	20	
Dibenzofuran	ND	3.5	71	73	2.8				40 - 140	20	
Diethyl phthalate	ND	1.5	82	85	3.6				40 - 140	20	
Dimethylphthalate	ND	1.5	76	78	2.6				40 - 140	20	
Di-n-butylphthalate	ND	1.5	78	79	1.3				40 - 140	20	
Di-n-octylphthalate	ND	1.5	69	72	4.3				40 - 140	20	
Hexachloroethane	ND	3.5	65	70	7.4				40 - 140	20	
Isophorone	ND	3.5	76	77	1.3				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	74	80	7.8				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	61	64	4.8				40 - 140	20	
Pentachloronitrobenzene	ND	5.0	84	88	4.7				40 - 140	20	
Phenol	ND	1.0	65	72	10.2				30 - 130	20	
% 2,4,6-Tribromophenol	77	%	92	94	2.2				15 - 110	20	
% 2-Fluorobiphenyl	68	%	67	67	0.0				30 - 130	20	
% 2-Fluorophenol	55	%	53	57	7.3				15 - 110	20	
% Nitrobenzene-d5	81	%	71	75	5.5				30 - 130	20	
% Phenol-d5	60	%	57	62	8.4				15 - 110	20	
% Terphenyl-d14	68	%	69	70	1.4				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 759931 (ug/L), QC Sample No: CS13283 (CS13580, CS13582, CS13584, CS13586, CS13588)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	65	69	6.0				30 - 130	20	
Acenaphthene	ND	0.50	76	83	8.8				30 - 130	20	
Acenaphthylene	ND	0.50	65	70	7.4				30 - 130	20	
Anthracene	ND	0.50	79	86	8.5				30 - 130	20	
Benz(a)anthracene	ND	0.50	78	84	7.4				30 - 130	20	
Benzo(a)pyrene	ND	0.50	79	89	11.9				30 - 130	20	
Benzo(b)fluoranthene	ND	0.50	74	80	7.8				30 - 130	20	
Benzo(ghi)perylene	ND	0.50	98	120	20.2				30 - 130	20	
Benzo(k)fluoranthene	ND	0.50	79	88	10.8				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chrysene	ND	0.50	75	83	10.1				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	104	135	25.9				30 - 130	20	l,r
Fluoranthene	ND	0.50	84	93	10.2				30 - 130	20	
Fluorene	ND	0.50	78	84	7.4				30 - 130	20	
Hexachlorobenzene	ND	0.50	71	75	5.5				30 - 130	20	
Hexachlorobutadiene	ND	0.50	70	73	4.2				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.50	26	29	10.9				30 - 130	20	l
Indeno(1,2,3-cd)pyrene	ND	0.50	102	123	18.7				30 - 130	20	
Naphthalene	ND	0.50	64	67	4.6				30 - 130	20	
Nitrobenzene	ND	0.50	72	75	4.1				30 - 130	20	
N-Nitrosodimethylamine	ND	0.05	58	76	26.9				30 - 130	20	r
Pentachlorophenol	ND	0.50	74	78	5.3				30 - 130	20	
Phenanthrene	ND	0.50	69	76	9.7				30 - 130	20	
Pyrene	ND	0.50	85	95	11.1				30 - 130	20	
Pyridine	ND	0.50	41	23	56.3				30 - 130	20	l,r
% 2,4,6-Tribromophenol	83	%	90	95	5.4				15 - 110	20	
% 2-Fluorobiphenyl	71	%	63	70	10.5				30 - 130	20	
% 2-Fluorophenol	70	%	63	67	6.2				15 - 110	20	
% Nitrobenzene-d5	72	%	65	67	3.0				30 - 130	20	
% Phenol-d5	67	%	65	67	3.0				15 - 110	20	
% Terphenyl-d14	91	%	85	95	11.1				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 759957 (ug/L), QC Sample No: CS13101 (CS13582, CS13584, CS13586, CS13588)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	110	105	4.7				70 - 130	20	
1,1,1-Trichloroethane	ND	1.0	107	103	3.8				70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	0.50	100	99	1.0				70 - 130	20	
1,1,2-Trichloroethane	ND	1.0	102	101	1.0				70 - 130	20	
1,1-Dichloroethane	ND	1.0	101	98	3.0				70 - 130	20	
1,1-Dichloroethene	ND	1.0	104	100	3.9				70 - 130	20	
1,1-Dichloropropene	ND	1.0	102	99	3.0				70 - 130	20	
1,2,3-Trichlorobenzene	ND	1.0	110	108	1.8				70 - 130	20	
1,2,3-Trichloropropane	ND	1.0	98	96	2.1				70 - 130	20	
1,2,4-Trichlorobenzene	ND	1.0	110	106	3.7				70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	116	113	2.6				70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	1.0	103	101	2.0				70 - 130	20	
1,2-Dibromoethane	ND	1.0	103	99	4.0				70 - 130	20	
1,2-Dichlorobenzene	ND	1.0	107	103	3.8				70 - 130	20	
1,2-Dichloroethane	ND	1.0	102	99	3.0				70 - 130	20	
1,2-Dichloropropane	ND	1.0	104	98	5.9				70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	115	112	2.6				70 - 130	20	
1,3-Dichlorobenzene	ND	1.0	107	104	2.8				70 - 130	20	
1,3-Dichloropropane	ND	1.0	104	101	2.9				70 - 130	20	
1,4-Dichlorobenzene	ND	1.0	106	103	2.9				70 - 130	20	
2,2-Dichloropropane	ND	1.0	109	104	4.7				70 - 130	20	
2-Chlorotoluene	ND	1.0	111	106	4.6				70 - 130	20	
2-Hexanone	ND	5.0	101	91	10.4				70 - 130	20	
2-Isopropyltoluene	ND	1.0	117	113	3.5				70 - 130	20	
4-Chlorotoluene	ND	1.0	108	106	1.9				70 - 130	20	

QA/QC Data

SDG I.D.: GCS13578

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Methyl-2-pentanone	ND	5.0	106	102	3.8				70 - 130	20
Acetone	ND	5.0	99	100	1.0				70 - 130	20
Acrolein	ND	5.0	117	110	6.2				70 - 130	20
Acrylonitrile	ND	5.0	101	94	7.2				70 - 130	20
Benzene	ND	0.70	109	103	5.7				70 - 130	20
Bromobenzene	ND	1.0	104	105	1.0				70 - 130	20
Bromochloromethane	ND	1.0	105	102	2.9				70 - 130	20
Bromodichloromethane	ND	0.50	106	102	3.8				70 - 130	20
Bromoform	ND	1.0	118	107	9.8				70 - 130	20
Bromomethane	ND	1.0	99	109	9.6				70 - 130	20
Carbon Disulfide	ND	1.0	102	98	4.0				70 - 130	20
Carbon tetrachloride	ND	1.0	108	106	1.9				70 - 130	20
Chlorobenzene	ND	1.0	107	102	4.8				70 - 130	20
Chloroethane	ND	1.0	105	106	0.9				70 - 130	20
Chloroform	ND	1.0	107	103	3.8				70 - 130	20
Chloromethane	ND	1.0	109	102	6.6				70 - 130	20
cis-1,2-Dichloroethene	ND	1.0	105	101	3.9				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	107	103	3.8				70 - 130	20
Dibromochloromethane	ND	0.50	110	105	4.7				70 - 130	20
Dibromomethane	ND	1.0	103	97	6.0				70 - 130	20
Dichlorodifluoromethane	ND	1.0	99	96	3.1				70 - 130	20
Ethylbenzene	ND	1.0	112	108	3.6				70 - 130	20
Hexachlorobutadiene	ND	0.40	106	102	3.8				70 - 130	20
Isopropylbenzene	ND	1.0	111	108	2.7				70 - 130	20
m&p-Xylene	ND	1.0	112	109	2.7				70 - 130	20
Methyl ethyl ketone	ND	5.0	107	92	15.1				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	104	101	2.9				70 - 130	20
Methylene chloride	ND	1.0	100	96	4.1				70 - 130	20
Naphthalene	ND	1.0	121	118	2.5				70 - 130	20
n-Butylbenzene	ND	1.0	113	110	2.7				70 - 130	20
n-Propylbenzene	ND	1.0	105	104	1.0				70 - 130	20
o-Xylene	ND	1.0	112	112	0.0				70 - 130	20
p-Isopropyltoluene	ND	1.0	117	114	2.6				70 - 130	20
sec-Butylbenzene	ND	1.0	112	109	2.7				70 - 130	20
Styrene	ND	1.0	118	114	3.4				70 - 130	20
tert-butyl alcohol	ND	10	95	109	13.7				70 - 130	20
tert-Butylbenzene	ND	1.0	116	115	0.9				70 - 130	20
Tetrachloroethene	ND	1.0	106	102	3.8				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	108	96	11.8				70 - 130	20
Toluene	ND	1.0	107	103	3.8				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	106	101	4.8				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	110	104	5.6				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	115	110	4.4				70 - 130	20
Trichloroethene	ND	1.0	104	102	1.9				70 - 130	20
Trichlorofluoromethane	ND	1.0	99	95	4.1				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	99	100	1.0				70 - 130	20
Vinyl chloride	ND	1.0	107	103	3.8				70 - 130	20
% 1,2-dichlorobenzene-d4	105	%	100	99	1.0				70 - 130	20
% Bromofluorobenzene	92	%	100	102	2.0				70 - 130	20
% Dibromofluoromethane	109	%	97	93	4.2				70 - 130	20
% Toluene-d8	101	%	99	100	1.0				70 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.											
QA/QC Batch 759874 (ug/kg), QC Sample No: CS13578 (CS13578, CS13579, CS13581, CS13583, CS13585, CS13587)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	105	100	4.9	91			70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	91	88	3.4	85			70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	106	101	4.8	124			70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	98	92	6.3	92			70 - 130	20	
1,1-Dichloroethane	ND	5.0	94	90	4.3	91			70 - 130	20	
1,1-Dichloroethene	ND	5.0	94	91	3.2	90			70 - 130	20	
1,1-Dichloropropene	ND	5.0	99	94	5.2	88			70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	90	81	10.5	32			70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	97	93	4.2	114			70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	97	86	12.0	38			70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	106	99	6.8	88			70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	95	91	4.3	101			70 - 130	20	
1,2-Dibromoethane	ND	5.0	98	92	6.3	94			70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	103	97	6.0	78			70 - 130	20	
1,2-Dichloroethane	ND	5.0	94	89	5.5	88			70 - 130	20	
1,2-Dichloropropane	ND	5.0	101	94	7.2	92			70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	107	101	5.8	93			70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	107	100	6.8	81			70 - 130	20	
1,3-Dichloropropane	ND	5.0	99	95	4.1	97			70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	105	100	4.9	79			70 - 130	20	
2,2-Dichloropropane	ND	5.0	83	88	5.8	86			70 - 130	20	
2-Chlorotoluene	ND	5.0	108	102	5.7	97			70 - 130	20	
2-Hexanone	ND	25	101	91	10.4	101			70 - 130	20	
2-Isopropyltoluene	ND	5.0	103	96	7.0	76			70 - 130	20	
4-Chlorotoluene	ND	5.0	110	103	6.6	94			70 - 130	20	
4-Methyl-2-pentanone	ND	25	96	90	6.5	102			70 - 130	20	
Acetone	ND	10	92	85	7.9	87			70 - 130	20	
Acrylonitrile	ND	5.0	86	83	3.6	90			70 - 130	20	
Benzene	ND	1.0	99	94	5.2	91			70 - 130	20	
Bromobenzene	ND	5.0	107	102	4.8	103			70 - 130	20	
Bromochloromethane	ND	5.0	81	87	7.1	89			70 - 130	20	
Bromodichloromethane	ND	5.0	102	97	5.0	89			70 - 130	20	
Bromoform	ND	5.0	108	103	4.7	93			70 - 130	20	
Bromomethane	ND	5.0	97	91	6.4	85			70 - 130	20	
Carbon Disulfide	ND	5.0	99	96	3.1	89			70 - 130	20	
Carbon tetrachloride	ND	5.0	83	86	3.6	79			70 - 130	20	
Chlorobenzene	ND	5.0	104	98	5.9	89			70 - 130	20	
Chloroethane	ND	5.0	103	98	5.0	92			70 - 130	20	
Chloroform	ND	5.0	83	88	5.8	88			70 - 130	20	
Chloromethane	ND	5.0	114	110	3.6	105			70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	82	90	9.3	92			70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	101	95	6.1	88			70 - 130	20	
Dibromochloromethane	ND	3.0	106	100	5.8	95			70 - 130	20	
Dibromomethane	ND	5.0	95	90	5.4	88			70 - 130	20	
Dichlorodifluoromethane	ND	5.0	108	104	3.8	97			70 - 130	20	
Ethylbenzene	ND	1.0	106	100	5.8	89			70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobutadiene	ND	5.0	98	90	8.5	31			70 - 130	20	m
Isopropylbenzene	ND	1.0	112	106	5.5	105			70 - 130	20	
m&p-Xylene	ND	2.0	106	99	6.8	89			70 - 130	20	
Methyl ethyl ketone	ND	5.0	85	79	7.3	89			70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	89	85	4.6	89			70 - 130	20	
Methylene chloride	ND	5.0	90	86	4.5	86			70 - 130	20	
Naphthalene	ND	5.0	88	81	8.3	65			70 - 130	20	m
n-Butylbenzene	ND	1.0	102	93	9.2	61			70 - 130	20	m
n-Propylbenzene	ND	1.0	109	102	6.6	93			70 - 130	20	
o-Xylene	ND	2.0	108	102	5.7	90			70 - 130	20	
p-Isopropyltoluene	ND	1.0	103	95	8.1	75			70 - 130	20	
sec-Butylbenzene	ND	1.0	106	98	7.8	77			70 - 130	20	
Styrene	ND	5.0	110	103	6.6	89			70 - 130	20	
tert-Butylbenzene	ND	1.0	106	100	5.8	87			70 - 130	20	
Tetrachloroethene	ND	5.0	101	94	7.2	80			70 - 130	20	
Tetrahydrofuran (THF)	ND	5.0	79	80	1.3	94			70 - 130	20	
Toluene	ND	1.0	101	95	6.1	89			70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	94	90	4.3	89			70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	101	96	5.1	90			70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	107	102	4.8	119			70 - 130	20	
Trichloroethene	ND	5.0	97	92	5.3	87			70 - 130	20	
Trichlorofluoromethane	ND	5.0	92	89	3.3	83			70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	92	90	2.2	85			70 - 130	20	
Vinyl chloride	ND	5.0	101	100	1.0	95			70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	99			70 - 130	20	
% Bromofluorobenzene	94	%	98	98	0.0	90			70 - 130	20	
% Dibromofluoromethane	75	%	85	86	1.2	94			70 - 130	20	
% Toluene-d8	96	%	99	98	1.0	97			70 - 130	20	

Comment:

The MSD is not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 760325 (ug/L), QC Sample No: CS13580 (CS13580)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	106	112	5.5				70 - 130	20	
1,1,1-Trichloroethane	ND	1.0	98	103	5.0				70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	0.50	101	102	1.0				70 - 130	20	
1,1,2-Trichloroethane	ND	1.0	97	105	7.9				70 - 130	20	
1,1-Dichloroethane	ND	1.0	101	105	3.9				70 - 130	20	
1,1-Dichloroethene	ND	1.0	95	99	4.1				70 - 130	20	
1,1-Dichloropropene	ND	1.0	105	108	2.8				70 - 130	20	
1,2,3-Trichlorobenzene	ND	1.0	110	112	1.8				70 - 130	20	
1,2,3-Trichloropropane	ND	1.0	95	104	9.0				70 - 130	20	
1,2,4-Trichlorobenzene	ND	1.0	111	112	0.9				70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	115	120	4.3				70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	1.0	114	109	4.5				70 - 130	20	
1,2-Dibromoethane	ND	1.0	103	103	0.0				70 - 130	20	
1,2-Dichlorobenzene	ND	1.0	104	106	1.9				70 - 130	20	
1,2-Dichloroethane	ND	1.0	98	102	4.0				70 - 130	20	
1,2-Dichloropropane	ND	1.0	100	105	4.9				70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	114	117	2.6				70 - 130	20	
1,3-Dichlorobenzene	ND	1.0	104	109	4.7				70 - 130	20	

QA/QC Data

SDG I.D.: GCS13578

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichloropropane	ND	1.0	103	106	2.9				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	103	106	2.9				70 - 130	20
2,2-Dichloropropane	ND	1.0	101	105	3.9				70 - 130	20
2-Chlorotoluene	ND	1.0	108	114	5.4				70 - 130	20
2-Hexanone	ND	5.0	101	102	1.0				70 - 130	20
2-Isopropyltoluene	ND	1.0	115	119	3.4				70 - 130	20
4-Chlorotoluene	ND	1.0	105	110	4.7				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	101	104	2.9				70 - 130	20
Acetone	ND	5.0	90	99	9.5				70 - 130	20
Acrolein	ND	5.0	110	108	1.8				70 - 130	20
Acrylonitrile	ND	5.0	100	97	3.0				70 - 130	20
Benzene	ND	0.70	105	108	2.8				70 - 130	20
Bromobenzene	ND	1.0	104	107	2.8				70 - 130	20
Bromochloromethane	ND	1.0	99	104	4.9				70 - 130	20
Bromodichloromethane	ND	0.50	106	107	0.9				70 - 130	20
Bromoform	ND	1.0	114	117	2.6				70 - 130	20
Bromomethane	ND	1.0	96	105	9.0				70 - 130	20
Carbon Disulfide	ND	1.0	98	99	1.0				70 - 130	20
Carbon tetrachloride	ND	1.0	110	114	3.6				70 - 130	20
Chlorobenzene	ND	1.0	102	107	4.8				70 - 130	20
Chloroethane	ND	1.0	102	107	4.8				70 - 130	20
Chloroform	ND	1.0	100	98	2.0				70 - 130	20
Chloromethane	ND	1.0	101	102	1.0				70 - 130	20
cis-1,2-Dichloroethene	ND	1.0	100	103	3.0				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	108	112	3.6				70 - 130	20
Dibromochloromethane	ND	0.50	110	112	1.8				70 - 130	20
Dibromomethane	ND	1.0	97	103	6.0				70 - 130	20
Dichlorodifluoromethane	ND	1.0	88	92	4.4				70 - 130	20
Ethylbenzene	ND	1.0	106	112	5.5				70 - 130	20
Hexachlorobutadiene	ND	0.40	107	106	0.9				70 - 130	20
Isopropylbenzene	ND	1.0	110	118	7.0				70 - 130	20
m&p-Xylene	ND	1.0	108	112	3.6				70 - 130	20
Methyl ethyl ketone	ND	5.0	95	97	2.1				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	101	103	2.0				70 - 130	20
Methylene chloride	ND	1.0	95	101	6.1				70 - 130	20
Naphthalene	ND	1.0	121	122	0.8				70 - 130	20
n-Butylbenzene	ND	1.0	114	117	2.6				70 - 130	20
n-Propylbenzene	ND	1.0	107	110	2.8				70 - 130	20
o-Xylene	ND	1.0	110	117	6.2				70 - 130	20
p-Isopropyltoluene	ND	1.0	119	122	2.5				70 - 130	20
sec-Butylbenzene	ND	1.0	111	115	3.5				70 - 130	20
Styrene	ND	1.0	114	116	1.7				70 - 130	20
tert-butyl alcohol	ND	10	84	92	9.1				70 - 130	20
tert-Butylbenzene	ND	1.0	116	120	3.4				70 - 130	20
Tetrachloroethene	ND	1.0	106	107	0.9				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	102	102	0.0				70 - 130	20
Toluene	ND	1.0	102	106	3.8				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	100	104	3.9				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	106	111	4.6				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	116	115	0.9				70 - 130	20
Trichloroethene	ND	1.0	100	106	5.8				70 - 130	20
Trichlorofluoromethane	ND	1.0	93	94	1.1				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	100	99	1.0				70 - 130	20

QA/QC Data

SDG I.D.: GCS13578

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Vinyl chloride	ND	1.0	98	101	3.0				70 - 130	20
% 1,2-dichlorobenzene-d4	102	%	98	100	2.0				70 - 130	20
% Bromofluorobenzene	93	%	100	102	2.0				70 - 130	20
% Dibromofluoromethane	102	%	98	97	1.0				70 - 130	20
% Toluene-d8	99	%	98	100	2.0				70 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference
(ISO) - Isotope Dilution



Phyllis Shiller, Laboratory Director
December 10, 2024

Tuesday, December 10, 2024

Criteria: NY: 375GWP, DEP EFF

State: NY

Sample Criteria Exceedances Report

GCS13578 - AMC-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS13578	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	4300	260	1000	1000	ug/Kg
CS13578	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	3000	260	1700	1700	ug/Kg
CS13578	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	4000	260	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 10, 2024 SDG I.D.: GCS13578

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD4 12/03/24-1: CS13578, CS13585

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CS13578, CS13585
Preceding CC D03B014 - d-BHC 26%L (20%), Heptachlor epoxide 22%L (20%)
Succeeding CC D03B028 - d-BHC 21%L (20%), Methoxychlor 21%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

SVOA Narration

CHEM19 12/02/24-3: CS13578

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.096 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.098 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM28 12/03/24-1: CS13581, CS13583, CS13585, CS13587

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.041 (0.1), Hexachlorobenzene 0.083 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: 2-Nitrophenol 0.041 (0.05)

The following Continuing Calibration compounds did not meet % deviation criteria: 2,6-Dinitrotoluene 21%H (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.049 (0.1), Hexachlorobenzene 0.076 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM36 12/02/24-2: CS13579, CS13580, CS13582, CS13584, CS13586, CS13588

The following Continuing Calibration compounds did not meet % deviation criteria: % 2,4,6-Tribromophenol 33%H (20%), 2-Nitrophenol 46%H (20%), 4-Chloroaniline 44%H (20%), 4-Nitrophenol 21%H (20%), Benzoic acid 40%H (20%), Hexachlorobutadiene 29%H (20%), Isophorone 21%H (20%), Pentachloronitrobenzene 27%H (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 2-Nitrophenol 46%H (40%), 4-Chloroaniline 44%H (40%)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 10, 2024 SDG I.D.: GCS13578

SVOASIM Narration

CHEM69 12/02/24-1: CS13580, CS13582, CS13584, CS13586, CS13588

The following Continuing Calibration compounds did not meet % deviation criteria: Indeno(1,2,3-cd)pyrene 34%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

VOA Narration

CHEM02 11/22/24-2: CS13582, CS13584, CS13586, CS13588

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,4-Trimethylbenzene 21% (20%), 2-Isopropyltoluene 22% (20%), n-Butylbenzene 23% (20%), p-Isopropyltoluene 23% (20%), sec-Butylbenzene 25% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Naphthalene 24%H (20%), Styrene 22%H (20%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM02 11/26/24-1: CS13580

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,4-Trimethylbenzene 21% (20%), 2-Isopropyltoluene 22% (20%), n-Butylbenzene 23% (20%), p-Isopropyltoluene 23% (20%), sec-Butylbenzene 25% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM03 11/23/24-1: CS13578, CS13579, CS13581, CS13583, CS13585, CS13587

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Bromoform 24% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

December 10, 2024

SDG I.D.: GCS13578

The samples in this delivery group were received at 1.9°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Temp 1.9 °C Pg 1 of 1

Contact Options:
[ ] Phone:
[ ] Fax:
[■] Email: ARIEL@AMC-ENGINEERING.COM

Customer: AMC ENGINEERING PLLC
Address: 18-36 42ND STREET
ASTORIA NY 11105

Project: Westchester Airport
Report to: ARIEL CZEMERINSKI
Invoice to: AMC ENGINEERING PLLC
QUOTE # : N/A

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: (AE) Date: 11/20/2024

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	VOCs (8260D)	SVOCs (8270E)	TAL Metals (6010D)	PCBs (8082A)	Pesticides (8081)	+	+	+	GL Amber 8 oz. [ ] w/H_3PO_4 [X] $NAHSO_4$	Soil VOA Vials [X] methanol [X] H_2O	GL Soil container (8) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H_2SO_4	PL As is [ ] 250ml [X] 500ml [X] 1000ml	PL H_2SO_4 [X] 250ml [ ] 500ml	PL HCl 250ml	PL HNO_3 250ml	PL As-is 125-mL (for Hg)	Bacteria Bottle as is
13578	B-1 (1-2')	S	11/19/2024	9:45AM		X	X	X	X	X					3	1									
13579	B-2 (5-6')	S	11/19/2024	10:50AM		X	X	X	X	X					3	1									
13580	B-2	GW	11/19/2024	11:15AM		X	X										3	2							
13581	B-3 (3-5')	S	11/19/2024	12:20PM		X	X	X	X	X					3	1									
13582	B-3	GW	11/19/2024	12:35PM		X	X										3	2							
13583	B-4 (8-10')	S	11/19/2024	1:50PM		X	X	X	X	X					3	1									
13584	B-4	GW	11/19/2024	2:15PM		X	X										3	2							
13585	B-5 (4-6')	S	11/20/2024	10:45AM		X	X	X	X	X					3	1									
13586	B-5	GW	11/20/2024	10:50AM		X	X										3	2							
13587	B-6 (8-10')	S	11/21/2024	8:15AM		X	X	X	X	X					3	1									
13588	B-6	GW	11/21/2024	8:40AM		X	X										3	2							

Relinquished by:	Accepted by:	Date:	Time:
(AE)		11/21/24	1420
	Emily A	11/21/24	1900

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 4 Days*
[ ] 5 Days*
[■] Standard
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

NY
[ ] TOGS GW
[ ] CP-51 SOIL
[ ] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[ ] 375SCO Residential Restricted Soil
[ ] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected?
NY

Comments, Special Requirements or Regulations:

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

Data Format:
[ ] Phoenix Std Report [ ] EQuIS
[■] Excel [ ] NJ Hazsite EDD
PDF [ ] NY EZ EDD (ASP)
[ ] GIS/Key [ ] Other

Data Package:
[ ] NJ Reduced Deliv. * [ ] Other
[ ] NY Enhanced (ASP B) *

Appendix C: Analytical Results from ELAP Certified Environmental Laboratory
York Analytical Laboratories, Inc.

Technical Report

prepared for:

AMC Engineering
18-36 42nd Street
Astoria NY, 11105
Attention: Ariel Czemerinski

Report Date: 12/02/2024
Client Project ID: Westchester Airport - SOIL
York Project (SDG) No.: 24K1532

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

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: 12/02/2024
Client Project ID: Westchester Airport - SOIL
York Project (SDG) No.: 24K1532

AMC Engineering
18-36 42nd Street
Astoria NY, 11105
Attention: Ariel Czemerinski

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 November 20, 2024 and listed below. The project was identified as your project: **Westchester Airport - SOIL**.

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
24K1532-01	B-1 (1-2ft)	Soil	11/19/2024	11/20/2024
24K1532-02	B-2 (5-6ft)	Soil	11/19/2024	11/20/2024
24K1532-03	B-3 (3-5ft)	Soil	11/19/2024	11/20/2024
24K1532-04	B-4 (8-10ft)	Soil	11/19/2024	11/20/2024
24K1532-05	B-5 (4-6ft)	Soil	11/19/2024	11/20/2024
24K1532-06	B-6 (8-10ft)	Soil	11/19/2024	11/20/2024

General Notes for York Project (SDG) No.: 24K1532

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, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: 

Date: 12/02/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: B-1 (1-2ft) **York Sample ID:** 24K1532-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 9:00 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.76	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.82	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**4.59**		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**58.6**		ng/L	1.85	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
375-95-1	*** Perfluorononanoic acid (PFNA)**	**4.38**		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
2355-31-9	* N-MeFOSAA	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	3.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.90	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ

Sample Information

Client Sample ID: B-1 (1-2ft) **York Sample ID:** 24K1532-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 9:00 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.57	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.65	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	7.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.55	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	3.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	3.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	3.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.87	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.47	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	7.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.53	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.45	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
919005-14-4	* ADONA	ND		ng/L	7.53	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.93	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.91	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	4.98	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	24.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	24.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ

Sample Information

Client Sample ID: B-1 (1-2ft) **York Sample ID:** 24K1532-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 9:00 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ng/L	19.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	19.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:41	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*121 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*117 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*112 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*126 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*112 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*100 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*87.7 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*80.0 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*73.5 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*110 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*119 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*109 %*	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*97.8 %*	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*83.6 %*	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*63.7 %*	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*80.6 %*	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*158 %*	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*111 %*	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*86.0 %*	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*85.5 %*	*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*64.1 %*	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*119 %*	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*85.1 %*	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*88.5 %*	*25-150*

Sample Information

Client Sample ID: **B-1 (1-2ft)** **York Sample ID:** **24K1532-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 9:00 am	11/20/2024

SPLP Extraction for PFAS 1312 **Log-in Notes:** **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **B-2 (5-6ft)** **York Sample ID:** **24K1532-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:50 am	11/20/2024

PFAS, SPLP EPA 1633 List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.84	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.90	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.35**		ng/L	1.93	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.08	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 11:54	ESJ
							Certifications:			

Sample Information

Client Sample ID: B-2 (5-6ft) **York Sample ID:** 24K1532-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:50 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
2355-31-9	* N-MeFOSAA	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.15	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.98	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.89	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	8.30	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.69	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	4.15	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	4.15	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	4.15	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.95	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.78	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	8.30	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.84	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ

Sample Information

Client Sample ID: B-2 (5-6ft) **York Sample ID:** 24K1532-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:50 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.76	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
919005-14-4	* ADONA	ND		ng/L	7.84	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	2.01	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	5.19	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	25.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	25.9	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	20.8	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	20.8	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	2.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 11:54	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*116 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*102 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*103 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*111 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*105 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*100 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*80.7 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*68.0 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*59.0 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*109 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*97.8 %*	*25-150*

Sample Information

Client Sample ID: B-2 (5-6ft) **York Sample ID:** 24K1532-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:50 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*100 %*		*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*85.5 %*		*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*56.0 %*		*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*69.0 %*		*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*56.4 %*		*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*51.0 %*		*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*82.6 %*		*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*58.4 %*		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*52.2 %*		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*46.6 %*		*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*108 %*		*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*53.8 %*		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*59.1 %*		*25-150*						

SPLP Extraction for PFAS 1312

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: B-3 (3-5ft) **York Sample ID:** 24K1532-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 12:20 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.81	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:06	ESJ
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**2.61**		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:06	ESJ
							Certifications:			

Sample Information

Client Sample ID: B-3 (3-5ft) **York Sample ID:** 24K1532-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 12:20 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.88	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**5.68**		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**10.3**		ng/L	1.91	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
2355-31-9	* N-MeFOSAA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.10	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.96	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.98	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.79	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.87	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	8.20	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ

Sample Information

Client Sample ID: B-3 (3-5ft) **York Sample ID:** 24K1532-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 12:20 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.65	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	4.10	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	4.10	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	4.10	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.93	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.68	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	8.20	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.75	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.66	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
919005-14-4	* ADONA	ND		ng/L	7.75	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	5.12	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	25.6	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	25.6	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	20.5	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	20.5	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ

Sample Information

Client Sample ID: B-3 (3-5ft) **York Sample ID:** 24K1532-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 12:20 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:06	ESJ

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*118 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*119 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*116 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*118 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*117 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*118 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*122 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*115 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*81.8 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*10.1 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*118 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*89.7 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*105 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*85.1 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*110 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*78.6 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*85.3 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*107 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*83.9 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*102 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*89.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*115 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*83.9 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*86.3 %*		*25-150*

Sample Information

Client Sample ID: B-3 (3-5ft) **York Sample ID:** 24K1532-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 12:20 pm	11/20/2024

SPLP Extraction for PFAS 1312 **Log-in Notes:** **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: B-4 (8-10ft) **York Sample ID:** 24K1532-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 1:50 pm	11/20/2024

PFAS, SPLP EPA 1633 List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.82	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**1.94**		ng/L	1.88	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.91	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.05	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:18	ESJ
							Certifications:			

Sample Information

Client Sample ID: B-4 (8-10ft) **York Sample ID:** 24K1532-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 1:50 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
2355-31-9	* N-MeFOSAA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.11	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.96	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.98	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.80	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.88	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	8.21	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.65	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	4.11	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	4.11	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	4.11	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.93	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.70	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	8.21	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.76	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ

Sample Information

Client Sample ID: B-4 (8-10ft) **York Sample ID:** 24K1532-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 1:50 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.68	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
919005-14-4	* ADONA	ND		ng/L	7.76	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.99	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	5.13	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	25.7	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	25.7	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	20.5	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	20.5	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	2.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:18	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*124 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*116 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*113 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*123 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*115 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*87.0 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*80.7 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*73.4 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*73.8 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*111 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*107 %*	*25-150*

Sample Information

Client Sample ID: B-4 (8-10ft) **York Sample ID:** 24K1532-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 1:50 pm	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*112 %*		*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*79.5 %*		*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*46.7 %*		*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*58.1 %*		*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*59.2 %*		*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*55.5 %*		*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*119 %*		*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*63.0 %*		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*65.1 %*		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*51.8 %*		*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*122 %*		*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*71.1 %*		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*71.2 %*		*25-150*						

SPLP Extraction for PFAS 1312

Log-in Notes: **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: B-5 (4-6ft) **York Sample ID:** 24K1532-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:45 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**5.73**		ng/L	1.79	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:30	ESJ
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**8.16**		ng/L	2.02	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:30	ESJ
							Certifications:			

Sample Information

Client Sample ID: **B-5 (4-6ft)** **York Sample ID:** **24K1532-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:45 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**2.88**		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**22.0**		ng/L	1.88	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
2355-31-9	* N-MeFOSAA	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.93	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.95	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.68	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.76	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	8.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ

Sample Information

Client Sample ID: B-5 (4-6ft) **York Sample ID:** 24K1532-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:45 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.60	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	4.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	4.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	4.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.90	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.57	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	8.08	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.63	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.55	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
919005-14-4	* ADONA	ND		ng/L	7.63	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.96	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.94	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	5.05	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	25.2	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	25.2	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	20.2	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	20.2	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ

Sample Information

Client Sample ID: **B-5 (4-6ft)** **York Sample ID:** **24K1532-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:45 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	2.02	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:30	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*118 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*119 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*113 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*120 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*109 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*98.4 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*81.7 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*68.1 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*60.4 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*109 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*112 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*110 %*	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*89.0 %*	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*59.0 %*	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*62.4 %*	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*60.4 %*	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*46.9 %*	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*115 %*	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*73.0 %*	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*64.0 %*	*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*58.8 %*	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*121 %*	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*74.9 %*	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*78.3 %*	*25-150*

Sample Information

Client Sample ID: **B-5 (4-6ft)** **York Sample ID:** **24K1532-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 10:45 am	11/20/2024

SPLP Extraction for PFAS 1312 **Log-in Notes:** **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **B-6 (8-10ft)** **York Sample ID:** **24K1532-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 8:15 am	11/20/2024

PFAS, SPLP EPA 1633 List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**3.93**		ng/L	1.81	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**8.87**		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.87	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**2.45**		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.01**		ng/L	1.90	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.04	1	EPA 1633/1312	12/01/2024 10:31	12/02/2024 12:43	ESJ
							Certifications:			

Sample Information

Client Sample ID: B-6 (8-10ft) **York Sample ID:** 24K1532-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 8:15 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
2991-50-6	* N-EtFOSAA	ND		ng/L	2.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.09	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.95	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.97	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.77	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	7.85	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	8.18	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	3.64	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	4.09	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	4.09	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	4.09	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.92	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	7.67	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	8.18	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	7.73	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ng/L	7.65	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ

Sample Information

Client Sample ID: **B-6 (8-10ft)** **York Sample ID:** **24K1532-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 8:15 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	* ADONA	ND		ng/L	7.73	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.98	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.96	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	5.11	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	25.6	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	25.6	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	20.4	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	2.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	20.4	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	2.04	1	EPA 1633/1312 Certifications:	12/01/2024 10:31	12/02/2024 12:43	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*122 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*116 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*110 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*116 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*114 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*100 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*94.0 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*87.0 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*78.4 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*106 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*115 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*106 %*	*25-150*

Sample Information

Client Sample ID: B-6 (8-10ft) **York Sample ID:** 24K1532-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1532	Westchester Airport - SOIL	Soil	November 19, 2024 8:15 am	11/20/2024

PFAS, SPLP EPA 1633 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A/1312-modified-PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*94.6 %*		*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*59.8 %*		*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*78.9 %*		*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*57.8 %*		*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*50.7 %*		*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*100 %*		*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*75.7 %*		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*68.9 %*		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*61.6 %*		*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*118 %*		*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*74.6 %*		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*78.0 %*		*25-150*						

SPLP Extraction for PFAS 1312

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1312 SPLP Extraction for PFAS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA 1312	11/22/2024 14:00	11/23/2024 16:54	MJD
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
EXT-COMP	Completed

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 current NELAC/TNI 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. 24K1532

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: AMC ENGINEERING PLLC	Company: AMC ENGINEERING PLLC	Company: AMC ENGINEERING PLLC
Address: 18-36 42ND STREET ASTORIA, NY 11105	Address: 18-36 42ND STREET ASTORIA, NY 11105	Address: 18-36 42ND STREET ASTORIA, NY 11105
Phone: 718-545-0474	Phone: 718-545-0474	Phone: 718-545-0474
Contact: ANDREW SUNG; ARIEL CZEMERINSKI	Contact: ANDREW SUNG; ARIEL CZEMERINSKI	Contact: ROSALIE FILACOMA; ARIEL CZEMERINSKI
E-mail: ASUNG@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM	E-mail: ASUNG@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM	E-mail: ROSALIE@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM

Project Number: N/A

Project Name: Westchester Airport - SOIL

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (6-9 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)
Ahmed Elbadri (AMC)

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 | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced | NYSDEC EQuIS
NY ASP B Package | Deliverables | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s):
N/A

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Type	No.
B-1 (1-2')	S	11/19/24 9:00 AM	SPLP PFAS (1312/1633)	250-mL plastic	1
B-2 (5-6')	S	11/19/24 10:50 AM	SPLP PFAS (1312/1633)	250-mL plastic	1
B-3 (3-5')	S	11/19/24 12:20 PM	SPLP PFAS (1312/1633)	250-mL plastic	1
B-4 (8-10')	S	11/19/24 1:40 PM	SPLP PFAS (1312/1633)	250-mL plastic	1
B-5 (4-6')	S	11/20/24 10:45 AM	SPLP PFAS (1312/1633)	250-mL plastic	1
B-6 (8-10')	S	11/20/24 8:15 AM	SPLP PFAS (1312/1633)	250-mL plastic	1

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 ___

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
AMC Engineering	11/20/24 2:40				
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					11/20/24 1546 4.2c Degrees C

Technical Report

prepared for:

AMC Engineering
18-36 42nd Street
Astoria NY, 11105
Attention: Ariel Czemerinski

Report Date: 12/06/2024
Client Project ID: Westchester Airport - GW
York Project (SDG) No.: 24K1533

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

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: 12/06/2024
Client Project ID: Westchester Airport - GW
York Project (SDG) No.: 24K1533

AMC Engineering
18-36 42nd Street
Astoria NY, 11105
Attention: Ariel Czemerinski

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 November 20, 2024 and listed below. The project was identified as your project: **Westchester Airport - GW**.

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
24K1533-01	B-2	Ground Water	11/19/2024	11/20/2024
24K1533-02	B-3	Ground Water	11/19/2024	11/20/2024
24K1533-03	B-4	Ground Water	11/19/2024	11/20/2024
24K1533-04	B-5	Ground Water	11/19/2024	11/20/2024
24K1533-05	B-6	Ground Water	11/19/2024	11/20/2024

General Notes for York Project (SDG) No.: 24K1533

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, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: 

Date: 12/06/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **B-2** **York Sample ID:** **24K1533-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 11:15 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**820**		ng/L	47.0	177	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/06/2024 16:51	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**694**		ng/L	35.0	200	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/06/2024 16:51	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**241**		ng/L	3.55	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**7110**		ng/L	68.0	183	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/06/2024 16:51	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**245**		ng/L	2.10	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2210**		ng/L	82.0	186	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/06/2024 16:51	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**74.7**		ng/L	2.60	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	3.75	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	5.64	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.39	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	3.70	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	3.45	9.99	5	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
2355-31-9	N-MeFOSAA	ND		ng/L	3.95	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
2991-50-6	N-EtFOSAA	ND		ng/L	5.14	9.99	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**519**		ng/L	1.15	20.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.39	9.99	5	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**66.0**		ng/L	4.54	9.54	5	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	6.59	9.64	5	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
27619-97-2	**1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**315**		ng/L	37.5	38.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH

Sample Information

Client Sample ID: B-2 **York Sample ID:** 24K1533-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 11:15 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	**1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**12.5**	J	ng/L	10.2	38.4	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**157**		ng/L	1.65	40.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	2.50	17.8	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/04/2024 13:43	KFH
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	10.7	20.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/04/2024 13:43	KFH
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	1.25	20.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/04/2024 13:43	KFH
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	1.85	20.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/04/2024 13:43	KFH
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1560**		ng/L	76.0	188	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/06/2024 16:51	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	8.94	37.5	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	16.1	40.0	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
763051-92-9	11CL-PF3OUdS	ND		ng/L	6.89	37.8	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
756426-58-1	9CL-PF3ONS	ND		ng/L	3.50	37.4	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
919005-14-4	ADONA	ND		ng/L	2.65	37.8	5	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	4.64	9.69	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	4.29	9.59	5	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/04/2024 13:43	KFH
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	10.1	25.0	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	36.6	125	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	47.3	125	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
24448-09-7	* N-MeFOSE	ND		ng/L	19.9	99.9	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
31506-32-8	* N-MeFOSA	ND		ng/L	7.89	9.99	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH

Sample Information

Client Sample ID: B-2 **York Sample ID:** 24K1533-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 11:15 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	19.9	99.9	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH
4151-50-2	* N-EtFOSA	ND		ng/L	8.99	9.99	5	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/04/2024 13:43	KFH

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*101 %*		*25-150*
M3PFBS	*Surrogate: M3PFBS*	*121 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*111 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*114 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*107 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*95.5 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*106 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*95.0 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*101 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*94.6 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*87.6 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*92.7 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*98.0 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*82.5 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*95.2 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*107 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*115 %*		*10-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*85.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*103 %*		*25-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*4.02 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*90.8 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*118 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*104 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*66.7 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*111 %*		*10-150*

Sample Information

Client Sample ID: B-2 **York Sample ID:** 24K1533-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 11:15 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*104 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*111 %*			*25-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*86.0 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*135 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*95.9 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*158 %*			*25-200*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*248 %*	PFSu-H		*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*128 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*147 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*89.5 %*			*25-150*						
13C9PFNA	*Surrogate: M9PFNA*	*95.0 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*159 %*	PFSu-H		*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*168 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*128 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*95.8 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*160 %*	PFSu-H		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*82.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*102 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*107 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*87.9 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*57.5 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*86.7 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*71.9 %*			*25-150*						

Sample Information

Client Sample ID: B-3 **York Sample ID:** 24K1533-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 12:35 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.90**		ng/L	0.463	1.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**16.9**		ng/L	0.345	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ

Sample Information

Client Sample ID: B-3 **York Sample ID:** 24K1533-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 12:35 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**12.3**		ng/L	0.700	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**47.2**		ng/L	0.670	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**22.8**		ng/L	0.414	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**103**		ng/L	0.808	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**3.42**		ng/L	0.513	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.739	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.11	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.867	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.729	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.680	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.779	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.02	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**19.6**		ng/L	0.227	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.867	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**1.14**	J	ng/L	0.897	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.30	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.39	7.49	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.02	7.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**13.9**		ng/L	0.325	7.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.493	3.51	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 07:59	ESJ

Sample Information

Client Sample ID: B-3 **York Sample ID:** 24K1533-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 12:35 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.11	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 07:59	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.246	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 07:59	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.365	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 07:59	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**2.11**		ng/L	0.749	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.76	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.18	7.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.36	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.690	7.37	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
919005-14-4	ADONA	ND		ng/L	0.522	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.917	1.91	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.848	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 07:59	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.00	4.93	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.22	24.6	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.33	24.6	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.93	19.7	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.56	1.97	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.93	19.7	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.77	1.97	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 07:59	ESJ

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*103 %*	*25-150*

Sample Information

Client Sample ID: B-3 **York Sample ID:** 24K1533-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 12:35 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C5PFHXA	*Surrogate: M5PFHxA*	*107 %*			*25-150*						
13C4PFHPA	*Surrogate: M4PFHpA*	*106 %*			*25-150*						
13C3PFHXS	*Surrogate: M3PFHxS*	*112 %*			*25-150*						
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*105 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*83.4 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*72.0 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*41.5 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*28.1 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*100 %*			*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*106 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*112 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*90.6 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*75.5 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*58.1 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*164 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*115 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*100 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*146 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*43.0 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*36.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*96.1 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*21.1 %*	PFSu-L		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*23.6 %*	PFSu-L		*25-150*						

Sample Information

Client Sample ID: B-4 **York Sample ID:** 24K1533-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 2:50 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

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: B-4 **York Sample ID:** 24K1533-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 2:50 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**17.7**		ng/L	0.454	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**22.3**		ng/L	0.338	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**6.22**		ng/L	0.686	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**540**		ng/L	0.657	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**20.4**		ng/L	0.406	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**141**		ng/L	0.792	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**4.57**		ng/L	0.502	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.725	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.09	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.850	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.715	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.667	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.763	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.995	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**7.77**		ng/L	0.222	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.858**	J	ng/L	0.850	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**5.12**		ng/L	0.879	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.28	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.25	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.98	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ

Sample Information

Client Sample ID: B-4 **York Sample ID:** 24K1533-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 2:50 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**19.8**		ng/L	0.319	7.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.483	3.44	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:15	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.07	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:15	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.242	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:15	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.357	3.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:15	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**20.3**		ng/L	0.734	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.73	7.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.12	7.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.33	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.676	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
919005-14-4	ADONA	ND		ng/L	0.512	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.899	1.87	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.831	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:15	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.96	4.83	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.08	24.2	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.15	24.2	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.86	19.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.53	1.93	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.86	19.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ

Sample Information

Client Sample ID: B-4 **York Sample ID:** 24K1533-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 2:50 pm	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.74	1.93	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:15	ESJ

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*112 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*106 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*116 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*103 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*125 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*110 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*98.5 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*86.8 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*71.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*117 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*108 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*114 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*89.3 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*99.9 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*96.9 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*178 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*129 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*101 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*165 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*68.7 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*60.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*102 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*38.0 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*45.6 %*		*25-150*

Sample Information

Client Sample ID: B-5 **York Sample ID:** 24K1533-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 10:50 am	11/20/2024

Sample Information

Client Sample ID: B-5 **York Sample ID:** 24K1533-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 10:50 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.23**		ng/L	0.430	1.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**3.80**		ng/L	0.320	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**3.40**		ng/L	0.649	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**20.0**		ng/L	0.622	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**13.7**		ng/L	0.384	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**28.9**		ng/L	0.750	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.69**	J	ng/L	0.475	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.686	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.805	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.677	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.631	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.722	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.942	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**2.75**	J	ng/L	0.210	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.805	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.832	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.21	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.86	6.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.87	7.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ

Sample Information

Client Sample ID: B-5 **York Sample ID:** 24K1533-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 10:50 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**6.81**	J	ng/L	0.302	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.457	3.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:31	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.96	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:31	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.229	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:31	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.338	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:31	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.93**		ng/L	0.695	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.64	6.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.95	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.26	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.640	6.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
919005-14-4	ADONA	ND		ng/L	0.485	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.850	1.77	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.786	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:31	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.86	4.57	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.70	22.9	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.66	22.9	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.44	1.83	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ

Sample Information

Client Sample ID: B-5 **York Sample ID:** 24K1533-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 10:50 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.65	1.83	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:31	ESJ

	Surrogate Recoveries	Result	Flag	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*101 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*109 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*111 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*111 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*116 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*82.5 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*78.6 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*54.3 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*27.4 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*106 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*91.8 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*113 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*86.5 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*82.6 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*67.4 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*147 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*107 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*110 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*128 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*39.2 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*20.4 %*	PFSu-L	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*106 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*19.3 %*	PFSu-L	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*23.7 %*	PFSu-L	*25-150*

Sample Information

Client Sample ID: B-6 **York Sample ID:** 24K1533-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 8:40 am	11/20/2024

Sample Information

Client Sample ID: B-6 **York Sample ID:** 24K1533-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 8:40 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.38**		ng/L	0.430	1.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**12.2**		ng/L	0.320	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**10.8**		ng/L	0.649	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**38.5**		ng/L	0.621	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**16.2**		ng/L	0.384	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**54.4**		ng/L	0.749	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**5.10**		ng/L	0.475	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.685	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.804	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.676	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.631	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.722	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.941	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**12.9**		ng/L	0.210	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.804	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.832	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.21	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.85	6.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.87	7.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ

Sample Information

Client Sample ID: B-6 **York Sample ID:** 24K1533-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 8:40 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**7.09**	J	ng/L	0.302	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.457	3.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:47	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.96	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:47	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.228	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:47	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.338	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/30/2024 11:20	12/03/2024 08:47	ESJ
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.52**	J	ng/L	0.695	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.64	6.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.95	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.26	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.640	6.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
919005-14-4	ADONA	ND		ng/L	0.484	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.850	1.77	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.786	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/30/2024 11:20	12/03/2024 08:47	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.86	4.57	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.70	22.8	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.65	22.8	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.44	1.83	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ

Sample Information

Client Sample ID: B-6 **York Sample ID:** 24K1533-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24K1533	Westchester Airport - GW	Ground Water	November 19, 2024 8:40 am	11/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.65	1.83	1	EPA 1633 Draft 3 Certifications:	11/30/2024 11:20	12/03/2024 08:47	ESJ

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*99.1 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*100 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*108 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*101 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*101 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*78.9 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*67.0 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*53.5 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*35.1 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*89.5 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*88.0 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*105 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*90.9 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*77.3 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*61.7 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*146 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*102 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*100 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*134 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*38.8 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*30.4 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*96.1 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*20.0 %*	PFSu-L	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*22.8 %*	PFSu-L	*25-150*

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
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.

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 current NELAC/TNI 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 132-02 89th Ave
Stratford, CT 06615 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. 24K1533

Page __1__ of __1__

YOUR Information	Report To:	Invoice To:
Company: AMC ENGINEERING PLLC	Company: AMC ENGINEERING PLLC	Company: AMC ENGINEERING PLLC
Address: 18-36 42ND STREET ASTORIA, NY 11105	Address: 18-36 42ND STREET ASTORIA, NY 11105	Address: 18-36 42ND STREET ASTORIA, NY 11105
Phone: 718-545-0474	Phone: 718-545-0474	Phone: 718-545-0474
Contact: ANDREW SUNG; ARIEL CZEMERINSKI	Contact: ANDREW SUNG; ARIEL CZEMERINSKI	Contact: ROSALIE FILACOMA; ARIEL CZEMERINSKI
E-mail: ASUNG@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM	E-mail: ASUNG@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM	E-mail: ROSALIE@AMC-ENGINEERING.COM; ARIEL@AMC-ENGINEERING.COM

Project Number: N/A

Project Name: Westchester Airport - GW

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (6-9 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)
Ahmed Elbadri

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 | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced | NYSDEC EQuIS
NY ASP B Package | Deliverables | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.
Compared to the following Regulation(s):
N/A

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Type	No.
B-2	GW	11/19/24 11:15A	PFAS 40 COMPOUNDS (1633)	500-mL plastic	2
B-3	GW	11/19/24 12:35P	PFAS 40 COMPOUNDS (1633)	500-mL plastic	2
B-4	GW	11/19/24 2:15P	PFAS 40 COMPOUNDS (1633)	500-mL plastic	2
B-5	GW	11/20/24 10:50A	PFAS 40 COMPOUNDS (1633)	500-mL plastic	2
B-6	GW	11/20/24 8:40A	PFAS 40 COMPOUNDS (1633)	500-mL plastic	2

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 ____

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
AMC Eng	11/20/24 2:30P				
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				[illegible] 11/20/24 1546	4.2 C Degrees C

Appendix D: Daily Status Reports

DAILY STATUS REPORT

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

Prepared By: Alan Czemerinski .

Project Name:	**Westchester County Airport**	Date:	**11/19/2024**

Consultant:	Safety Officer:
AMC Engineering, PLLC	**Ahmed Elbadri (AMC)** **Alan Czemerinski (AMC)**
General Contractor:	Site Manager/ Supervisor:
OLA Engineers	**Adam (Westchester County Airport)**

Work Activities Performed:

1. **Obtained accurate mark-outs for six (6) boring locations B7-B12 *[B1-B6]* from John Rango, geophysicist, Radar Dynamics NJ, LLC (sub-contractor for Coastal drilling company)**
2. **Observed Geoprobe boring by two drillers from Coastal at four (4) boring locations B7-B10 *[B1-B4]* to either 25 feet deep or refusal**
3. **Collected soil samples from the four (4) boring locations B7-B10 *[B1-B4]*, including samples for PFAS testing**
4. **Collected groundwater samples from the three (3) boring locations where groundwater was present B8-B10 *[B2-B4]*, including samples for PFAS testing**

Samples Collected (Since Last Report):

Four (4) boring locations were sampled B7-B10 *[B1-B4]*. Soil samples were collected from all borings. Groundwater samples were collected from three (3) boring locations B8-B10 *[B2-B4]*, where groundwater was present.

Soil samples collected from each boring included:
- 3 VOCs
- 1 8oz jar
- 1 half-filled container for PFAS testing

Groundwater samples collected from each boring (where available) included:
- 2 amber liter bottles
- 3 VOCs
- 2 containers for PFAS testing

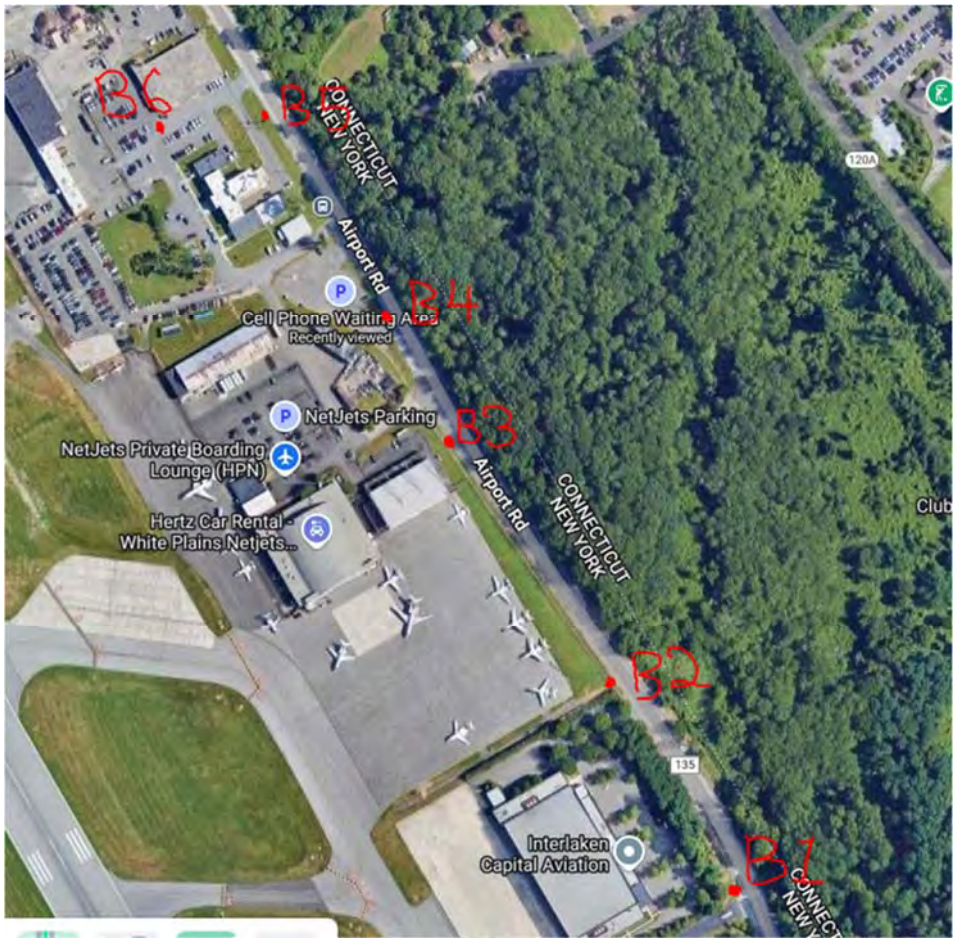
The samples for PFAS testing were sent to York Analytical Laboratories, Inc. for analysis. The remaining samples were sent to Phoenix Environmental Labs for analysis.

Problems Encountered: **B7 *[B1]* didn't have groundwater present (encountered refusal/bedrock at approximately 2.5' at two points). Encountered refusal at B8 *[B2]* around 20 feet, at B9 *[B3]* around 13 feet, and at B10 *[B4]* around 14 feet.**
Planned Activities for the Next Day/ Week: **Finished the sampling plan, by boring and sampling at B11 *[B5]* and B12 *[B6]*.**

Photos 1: GPR Used to Assist in Marking-Out B7 *[B1]*	

Photo 2: B7 *[B1]* Mark-Outs	
Photo 3: Auger tools prepared for manual clear outs	

Photo 4: Geoprobe in operation at B7 *[B1]*	
Photo 5: Soil sampling from B9 *[B3]*	

Photo 6: Peristaltic pump set-up for groundwater purging and later sampling at B9 *[B3]*	
Photo 7: Borings Map (note: boring numbers have been revised, and reflects the following: B1 is now B7; B2 is now B8; B3 is now B9; B4 is now B10; B5 is now B11; B6 is now B12;	

DAILY STATUS REPORT

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

Prepared By: Alan Czemerinski

Project Name:	**Westchester County Airport**	Date:	**11/20/2024**

Consultant: **AMC Engineering, PLLC**	Safety Officer: **Ahmed Elbadri (AMC)** **Alan Czemerinski (AMC)**
General Contractor: **OLA Engineers**	Site Manager/ Supervisor: **Adam (Westchester County Airport)**

Work Activities Performed:

1. **Observed Geoprobe boring by 2 drillers from Coastal for the remaining two (2) boring locations B11-B12 *[B5-B6]* to either 25' depth or refusal, using the accurate mark-outs from 11/19/2024**
2. **Collected soil samples from the boring locations, including samples for PFAS testing**
3. **Collected groundwater samples from the boring locations, including samples for PFAS testing**

Samples Collected (Since Last Report):

Two (2) boring locations were sampled B11-B12 *[B5-B6]* for soil and groundwater.

Soil samples collected from each boring included:
- **3 VOCs**
- **1 8oz jar**
- **1 half-filled container for PFAS testing**

Groundwater samples collected from each boring (where available) included:
- **2 amber liter bottles**
- **3 VOCs**
- **2 containers for PFAS testing**

The samples for PFAS testing were sent to York Analytical Laboratories, Inc. for analysis. The remaining samples were sent to Phoenix Environmental Labs for analysis.

Problems Encountered:

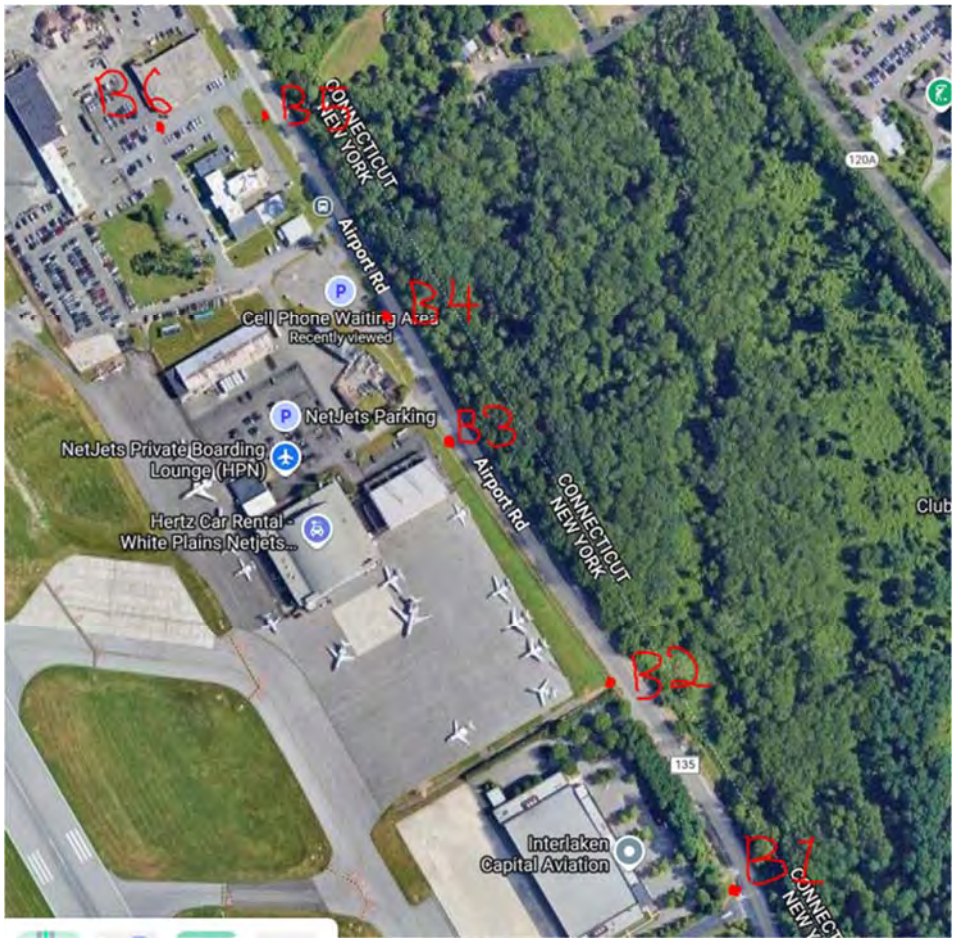
Encountered refusal at B11 *[B5]* around 10 feet and at B12 *[B6]* around 13 feet.

Planned Activities for the Next Day/ Week:

None.

Photos 1: Site overview	
Photo 2: B12 *[B6]* location and Geoprobe	

Photo 3: Soil characterization and sampling B12 *[B6]*	
Photo 4: Ground water sampling B12 *[B6]*	

Photo 5: Borings Map (note: boring numbers have been revised, and reflects the following: B1 is now B7; B2 is now B8; B3 is now B9; B4 is now B10; B5 is now B11; B6 is now B12;	

APPENDIX D

Excavation Work Plan taken from *Interim Site Management Plan, Appendix C* dated June 2025 for the Site

APPENDIX C – EXCAVATION WORK PLAN (EWP)

C-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination or breach or alter the site's cover system, the site owner or their representative will notify the NYSDEC contacts listed in the table below. **Table B-1** includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in **Appendix A**.

Table C-1: Notifications*

Name	Contact Information
Greta White, P.G. NYSEC Project Manager Remedial Bureau C	NYSDEC DER Bureau C 625 Broadway Albany, NY 12233 Greta.white@dec.ny.gov 518-402-2029
Kiera Thompson NYSDEC Section Chief Remedial Bureau C	NYSDEC DER Bureau C 625 Broadway Albany, NY 12233 Kiera.thompson.ny.gov
Leia Schmidt, Esq. NYSDEC Site Control	NYSDEC Office of General Counsel 625 Broadway, 14th Floor Albany, NY 12233-1500 Leia.schmidt@dec.ny.gog

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, any modifications of truck routes, and any work that may impact an engineering control;

- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;

- A schedule for the work, detailing the start and completion of all intrusive work, and submittals (e.g., reports) to the NYSDEC documenting the completed intrusive work;

- A summary of the applicable components of this EWP;

- A statement that the work will be performed in compliance with this EWP, 29 CFR 1910.120 and 29 CFR 1926 Subpart P;

- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in **Appendix E** of this ISMP;

- Identification of disposal facilities for potential waste streams; and

- Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

The NYSDEC project manager will review the notification and may impose additional requirements for the excavation that are not listed in this EWP. The alteration, restoration and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application professional seals and alterations.

C-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed during all excavations into known or potentially contaminated material (remaining contamination) or a breach of the cover system. A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State

will perform the screening. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section **C-6** of this Appendix.

C-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

C-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned

work under this ISMP is posed by utilities or easements on the site. A site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements). Trucks transporting contaminated soil must have either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all sides.

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials. Material accumulated from the street cleaning and egress cleaning activities will be disposed off-site at a permitted landfill facility in accordance with all applicable local, State, and Federal regulations.

C-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all

sides. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes will be determined and included within project specific Interim Remedial Action Plan, 15-day activity notice and/or Change of Use requirements. All trucks loaded with site materials will exit the vicinity of the site using only these pre-approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

C-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed off-site in a permitted facility in accordance with all local, State and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC project manager. Unregulated off-site management of materials from this site will not occur without formal NYSDEC project manager approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification and project specific Interim Remedial Measure work plan. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C&D debris

recovery facility). Actual disposal quantities and associated documentation will be reported to the NYSDEC in the monthly progress reports, project specific Construction Completion Reports, and Periodic Review Report after completion of final SMP. This documentation will include, but will not be limited to: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 361-5 registered or permitted facility).

C-7 MATERIALS REUSE ON-SITE

The qualified environmental professional, as defined in 6 NYCRR Part 375, will ensure that procedures defined for materials reuse in this ISMP are followed and that unacceptable material (i.e. contaminated) does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within the cover system or within landscaping berms. Contaminated on-site material may only be used beneath the site cover as backfill for subsurface utility lines with prior approval from the DEC project manager.

Proposed materials for reuse on-site must be sampled for full suite analytical parameters including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances dated April 2023 guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

Soil/fill material for reuse on-site will be segregated and staged as described in Sections C-2 and C-3 of this EWP. The anticipated size and location of stockpiles will be provided in the 15-

day notification and project specific Interim Remedial Action Work Plan to the NYSDEC project manager. Stockpile locations will be based on the location of site excavation activities and proximity to nearby site features. Material reuse on-site will comply with requirements of NYSDEC DER-10 Section 5.4(e)4. Any modifications to the requirements of DER-10 Section 5.4(e)4 must be approved by the NYSDEC project manager.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site may only be reused on-site with written approval from the NYSDEC project manager.

C-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed off-site at a permitted facility in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

Project specific discharge or dewatering or other water management and treatment requirements will be included in project specific Interim Remedial Action Work Plan and obtain prior approval from NYSDEC.

C-9 COVER SYSTEM RESTORATION

The Site currently does not a cover system installed. Therefore, areas which are disturbed during approved Interim Remedial Actions or approved redevelopment will be restored to existing site grade, surfaces, or cover system as included in project specific Interim Remedial Action Work Plan.

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with this ISMP. Since contamination exists at the site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. The final SMP for the Site will include all applicable ICs/ECs as defined in the remedy for the Site.

The alteration, restoration and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application professional seals and alterations.

C-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional, as defined in 6 NYCRR Part 375, and will be in compliance with provisions in this ISMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review. A copy of the form is presented in **Appendix G**.

Material from industrial sites, spill sites, other environmental remediation sites, or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d) and DER-10 Appendix 5 for the use Restricted Industrial for all compounds listed. Proposed materials must be sampled for full suite analytical parameters including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. Soils that meet Fill Type 4 and Fill Type 5 under 6 NYCRR Part 360.13 are prohibited from reuse in Westchester County, with the exception that Fill Type 4 can be reused as described within the same county it was generated.

Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards will be listed in the final SMP. Soils that meet 'general' fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by

NYSDEC project manager. Soil material will be sampled for the full suite of analytical parameters, including PFAS and 1, 4-dioxane. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

C-11 STORMWATER POLLUTION PREVENTION

A Stormwater Pollution Prevention Plan (SWPPP) may be required for each project specific Interim Remedial Action Work Plan. The SWPPP will conform to the requirements of the NYSDEC Division of Water guidelines and NYS regulations. The project specific SWPPP will be included with the project specific Remedial Action Work Plan. The SWPPP will include inspection requirements. SWPPP inspection reports will be included in Monthly Progress Report. Erosion and sediment controls for any work shall be clearly outlined in each work plan, particularly to protect streams from sedimentation and prevent surface water with high sediment load from entering Rye Lake (including SPDES discharges). Erosion and sediment controls may include, but not limited to the following:

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the ISMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing

significant impacts to receiving waters. Additional monitoring during any site construction activities will be broadly implemented. Erosion and sediment controls will include minimizing active site disturbances, stabilizing bare soils, and managing stormwater runoff. This will be managed by installing silt fencing or hay bales around the entire perimeter of the construction area. In order to protect Rye Lake and surrounding streams from sedimentation and surface water runoff with high sediment loads, Terracon will implement additional erosion and sediment controls on an as-needed basis. These controls will be specifically outlined in each submitted Work Plan.

C-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition. The NYSDEC project manager will be promptly notified of the discovery.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes [TAL metals, TCL volatiles and semi-volatiles (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC project manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone within two hours to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Monthly Progress Report.

C-13 COMMUNITY AIR MONITORING PLAN

Community Air Monitoring Plan (CAMP) is included as Appendix H in this ISM. Project Specific Interim Remedial Action Work Plans will include figure(s) to identify location of air sapling stations based on generally prevailing wind conditions for the project details. The locations

will be adjusted on a daily or more frequent basis on actual wind direction to provide an upwind at downwind monitoring station.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

C-13A: Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 part-per-million, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 micrograms per cubic meter, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 micrograms per cubic meter or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

C-13B: Special Requirements for Indoor Work with Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

C-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

C-15 DUST CONTROL PLAN

Particulate monitoring must be conducted according to the Community Air Monitoring Plan (CAMP) provided with this ISMP. If particulate levels at the site exceed the thresholds listed in the CAMP or if airborne dust is observed on the site or leaving the site, the dust suppression techniques listed below will be employed. The remedial party will also take measures listed below to prevent dust production on the site.

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved using a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.

- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.

- Gravel will be used on roadways to provide a clean and dust-free road surface.

- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

C-16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.