Limited Remedial Investigation

Phase I - Historical Burn Pit Area Data Gap Investigation

Westchester County Airport

Site No. C360174

West Harrison, New York

October 16, 2026 | Terracon Project No. JA257006

Prepared for:

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CERTIFICATION

I, Michele Patterson-Wittman, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Limited Remedial Investigation 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).



Michele Patterson-Wittman
P.G. No. 1776

10/21/2026
Date

I, Lucas Alberto Barroso-Giachetti, P.E., certify that I am currently a NYS registered professional engineer that this Limited Remedial Investigation 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).

p.p. 

Lucas Alberto Barroso-Giachetti, P.E.
New York Registration Number: 111815

10/21/2026
Date

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1.0 Project Background

Terracon Consultants – NY, Inc. (Terracon) has prepared this Work Plan (WP) for a Limited Remedial Investigation (LRI) for the Historical Burn Pit Area (HBPA) located in the northern portion of 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 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**). This LRI will include a Data Gap Investigation within and near the HBPA (**Exhibit 2**) to further evaluate per- and polyfluoroalkyl substances (PFAS) concentrations in soil and groundwater and supplement previous assessment activities completed at the Airport by others.

In preparation of this WP, Terracon reviewed the following previous environmental documents prepared for the Airport and submitted to NYSDEC for review:

- Site Characterization Report (SCR) dated April 2021, prepared by First Environment, Inc. (FE). The SCR is available at NYSDEC's online document database. Terracon reviewed the SCR to evaluate the initial soil and groundwater assessment results of the HBPA for PFAS.
- October 2024 and April 2025 Semi-Annual Groundwater Sampling Results prepared by WSP. The WSP reports are available at NYSDEC's online document database.

As discussed with NYSDEC, during our monthly project update conference call in June 2026, this LRI will be part of a phased approach for the comprehensive assessment of the HBPA during 2026 and 2027 that will be the basis for potential remedial actions within and surrounding the HBPA.

1.1 Site Description and History

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

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 hanger 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 PFAS as reported by FE in their SCR dated April 2021.

1.2 Conditions Warranting Interim Remedial Measures

As noted above, soil and groundwater assessment activities in the area of the HBPA were completed between 2020 and 2021. Based on analytical results, NYSDEC issued correspondence dated July 15, 2024 including comment No. 4 that required submittal of a WP to address Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) concentrations in soil and groundwater within the HBPA (**Appendix B**).

In accordance with the approved ISMP, the proposed sampling activities must be performed in accordance with the best practices and management plans outlined in the ISMP.

1.3 LRI Work Plan Objectives

Terracon submitted a WP dated December 11, 2025 to NYSDEC for review and comments. Terracon received comments from NYSDEC in correspondence dated February 18, 2026 (**Appendix B**). Terracon has addressed these comments in this revised WP and, for ease of review and approval by NYSDEC, tabulated the comments in the February 2026 NYSDEC correspondence with corresponding notes from Terracon (**Appendix C**). As applicable, Terracon has included comments related to the phased assessment approach that was discussed with NYSDEC.

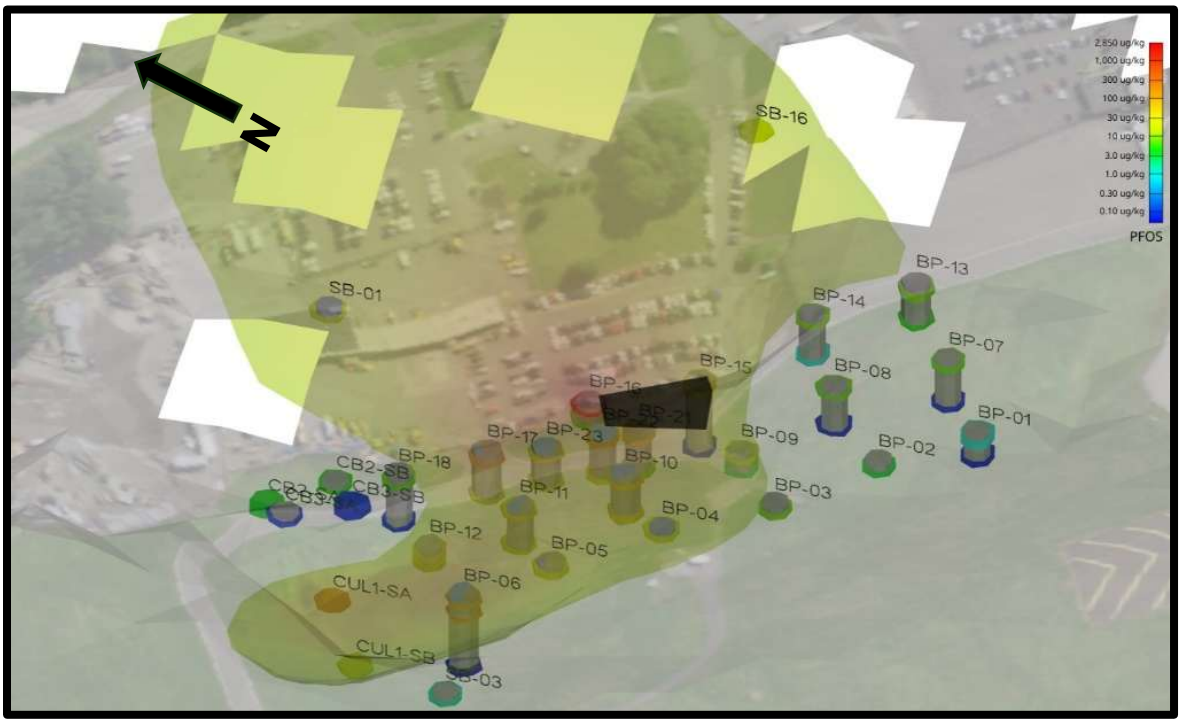
Terracon proposes that soil and groundwater samples within the area of investigation of this LRI be analyzed for PFAS and other potential contaminants of concern (COCs) including volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

Overall, the intent of the LRI will be to further evaluate the current extents of PFOS/PFOA surrounding the HBPA, better understand current shallow groundwater conditions and migration patterns, compare previous data for consistency with updated laboratory methods to evaluate its potential use in future decision-making and overall

reliance for the HBPA's Conceptual Site Model (CSM) that is being developed by Terracon. This CSM will be utilized to evaluate potential remedial actions, including targeted soil excavations to reduce PFOS/PFOA mass in the HBPA and adjoining areas.

This LRI will generate data for the HBPA including the following:

- Further evaluation of soil and groundwater quality data utilizing the current EPA Method 1633A. Terracon notes that the analytical results reported by the laboratory during the 2020/2021 assessment activities were produced with a modified version of EPA Method 537 (commonly referred to as "537 Modified"). EPA Method 537 is originally a drinking water test method that was modified by different laboratories to analyze non-potable water and other environmental matrices, including the adoption of isotope dilution for enhanced data quality and accuracy.
- Terracon's preliminary CSM was developed utilizing the PFAS data sets generated during the 2020/2021 SCR activities by FE. As part of this LRI, continued assessment of selected PFAS concentrations of interest in soil and groundwater will be critical to further develop a CSM that 1) represents the site conditions and contaminant distribution and 2) also meets NYSDEC's current regulatory requirements for laboratory analysis. As required by NYSDEC, soil and groundwater samples proposed in this LRI will be analyzed via EPA Method 1633A.
- Expansion of the current soil and groundwater data set to better understand the current extent of PFAS concentrations, in particular to the east of the HBPA based on Terracon's preliminary modeling of PFAS data sourced from the 2020/2021 SCR activities. Please see the screenshot below of Terracon's model output suggesting an "unbounded" or non-delineated extent of PFAS-impacted soils and groundwater to the east of the HBPA.
- In response to NYSDEC correspondence dated February 18, 2026, Terracon will collect a surface water/stormwater sample at the location of Headwall HW7021.1.



Graphic No. 1: Screenshot of Terracon's preliminary model output based on the 2020/2021 soil assessment PFOS data showing undefined/unbounded PFAS impacts to the east of the Historical Burn Pit Area.

Terracon's proposed scope of work will build upon the previous assessments and semi-annual groundwater monitoring data sets, with an emphasis on the concentration ranges or orders of magnitude in PFOS and/or PFOA mass that, as noted above, may be the subject of remedial actions, including previously conducted pilot testing for the purposes of developing a full-scale remediation approach for the HBPA and adjoining areas.

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, 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) 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 Polyfluoralkyl substances (PFAS)* dated April 2023.

2.0 Limited Remedial Investigation Scope of Work

The following sections provide Terracon's approach to evaluate project subsurface conditions in the vicinity of the HBPA to further evaluate and understand the extent of PFOS/PFOA impacts.

2.1 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 project work zone, and to clear the proposed drilling locations.

In summary, Terracon proposes advancing 17 soil borings, installing 10 monitoring wells (overburden/shallow wells), collecting soil and groundwater samples for laboratory analysis and gauging 19 monitoring wells on a monthly basis to further evaluate the HBPA.

The following sections provide additional information on the anticipated geology/hydrogeology in the general area of the investigation in and surrounding the HBPA, soil sampling methodologies including targeted sampling intervals, monitoring well construction methods and groundwater sampling procedures.

2.2 HBPA Geology/Hydrogeology

Terracon conducted a review of previous soil and groundwater investigations in the general HBPA and surrounding portions of the Airport included in this LRI (**Exhibits 3** and **4**). Based on this review of historical soil boring logs from previous soil sampling efforts, particularly from the SCR from April 2021, the following **Table 1** provides a summary of the soil types and anticipated depths to water across the investigation area.

Table 1 – Summary of HBPA Geology and Anticipated Depth to Water

IRM Investigation Area (Historical Soil Borings)	Depth (feet bgs[1])	Anticipated Geology/Soil Descriptions	Anticipated Depth to Water (feet bgs)
Historical Burn Pit Area (HBPA) (BP-21 and BP-22)	Ground surface to 11 feet bgs	Fine to course SAND, Brown to Dark Brown, traces of gravel and debris (brick)	6
	Ranging from 11 to 12-14 feet bgs	SAPROLITE	
North of HBPA (BP-12, BP-17, BP-18 and BP-23)	Ground surface to 11 feet bgs	Fine to course SAND, Brown to Gray, traces of gravel, silt, cobble and clay	Ranging from 2.5 (BP-12) to 7 (BP-17)
	Ranging from 11 to 20 feet bgs	SAPROLITE	
South of HBPA (BP-07 through BP-09, BP-13, BP-14)	Ground surface to 13 feet bgs	Fine to course SAND, Brown to Gray, Organic Silt, traces of gravel and cobble	Ranging from 3 (BP-09) to 8 (BP-07)
	Ranging from 13 to 18	SAPROLITE	
East of HBPA (BP-15, BP-16, BP-19 and BP-20)	Ground surface to 12 feet bgs	Fine to course SAND, SILT, ORGANIC SILT, Brown to Gray, Organic Silt, traces of gravel and cobble	Ranging from 2 (BP-15) to 8 (BP-07)
	Ranging from 12.5 to 20 feet bgs	SAPROLITE	
West of HBPA (BP-03, BP-04, BP-09 and BP-10	Ground surface to 15 feet bgs	Fine to course SAND, Brown to Gray, traces of gravel, silt	Ranging from 3 (BP-04) to 6.5 (BP-03)
	Ranging from 8.5 to 16.5 feet bgs	SAPROLITE	

Notes: 1. bgs = below ground surface

2.2.1 Buried Construction and Demolition Debris

Terracon notes that during this review, several soil boring logs identified evidence of buried construction and demolition debris (C&D) materials including asphalt, brick and wood debris at depths of multiple feet below ground surface.

These areas of potentially buried C&D materials are important in the construction of the CSM, identifying potential sources of PFOA and PFOS leachability pathways from historically PFAS-impacted surfacing materials subject to the direct application of AFFF, or secondarily impacted via subsequent stormwater flow patterns.

- Soil boring BP-09 – Layers of asphalt observed mixed with brown sand from the ground surface to 3 feet bgs.
- Soil boring BP-11 – Approximately six inches of asphalt were identified between 2.5 and 3 feet bgs, with the commonly observed brown to gray colored sands above and below this apparently discrete layer.
- Soil boring BP-14 – Wood debris was observed mixed with brown-colored organic silt from approximately 7 to 10 feet bgs.
- Soil boring BP-15 – Six inches of wood debris was observed mixed with gray silt between approximately six inches to 2.5 feet bgs.
- Soil boring BP-18 – Similar to soil boring BP-18, an approximately six-inch layer of asphalt was identified between 2 and 2.5 feet bgs.

Terracon notes that soil borings BP-11 and BP-18 are separated by approximately 125 feet. Copies of these selected soil borings are provided in **Appendix D**.

2.3 Soil Sampling

Terracon has incorporated the additional proposed soil borings per NYSDEC's correspondence dated February 18, 2026 including the originally proposed locations.

For ease of NYSDEC's review in conjunction with the Exhibits, the following **Table 2** provides a summary of the proposed soil borings under this LRI including additional information on the sample location, as applicable.

Table 2 – Summary of Proposed LRI Soil Borings

Soil Boring ID	Soil Boring Location Notes
TER-SB-01	South of OF-7 and boundary of equipment storage area
TER-SB-02	Northwest of HBPA and west of identified buried C&D debris area
TER-SB-03	West of Open Catch Area and north of identified buried C&D debris area
TER-SB-04	Western portion of Open Catch Area
TER-SB-05	Southern portion of Open Catch Area
TER-SB-06	Eastern portion of Open Catch Area
TER-SB-07	Northwest of HBPA and Former Source Removal Area
TER-SB-08	Northeast of HBPA and Former Source Removal Area. East of identified buried C&D debris area
TER-SB-09	Landscaping areas east of HBPA. Evaluation of potential impacts from historical stormwater sheet flows.
TER-SB-10	
TER-SB-11	
TER-SB-12	Approximate location of former sampling point BP-20, reporting ~91,000 ppt PFOS+PFOA in overburden groundwater (SCR)
TER-SB-13	Approximate location of former sampling point BP-16, reporting ~90,000 ppt PFOS+PFOA in overburden groundwater
TER-SB-14	Approximate center of HBPA and within former 2000 Source Removal Area
TER-SB-15	Co-located soil boring with installation of monitoring well TER-MW-OB-02

Table 2 – Summary of Proposed LRI Soil Borings

Soil Boring ID	Soil Boring Location Notes
TER-SB-16	Southwest portion of parking lot, west of former BP-19 groundwater sample location with 3,480 ppt combined PFOS+PFOA and west of identified buried C&D debris
TER-SB-17	Investigation of area west of Building 10 to evaluate PFOS+PFOA concentrations/mass in soils north/northeast of the HBPA
TER-SB-18	West of historic burn pit boundary, inside the approximate boundary of buried construction and demolition debris
TER-SB-19	Co-located soil boring with installation of monitoring well TER-MW-OB-10

2.3.1 Field Procedure

Soil Sampling

Based on **Table 2** above, a total of 17 soil borings will be advanced utilizing a direct push technology (DPT) drilling rig or stainless-steel hand auger from the approximate locations shown on **Exhibit 5**. Soil samples will be collected for PFAS analysis from the proposed existing ground surface to approximately 2 inches below ground surface (bgs), 2 inches to 12 inches bgs, 12 inches to 24 inches bgs and in two-foot depth intervals to approximately 6 feet bgs.

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.

As noted in NYSDEC Comment No. 11, discrete soil samples collected for expanded analysis are to be biased toward observed evidence of impacts. Terracon understands it may be necessary to collect more than 10% of soil samples for the expanded list based on field evidence of impacts.

2.4 Monitoring Well Installation

For ease of NYSDEC's review in conjunction with the Exhibits, the following **Table 3** provides a summary of the proposed monitoring wells under this LRI including additional information on the sample location, as applicable.

Table 3 – Summary of Proposed Overburden and Bedrock Monitoring Wells

Monitoring Well ID	Monitoring Well Location Notes
TER-MW-OB-01	Evaluation of overburden/shallow groundwater water quality conditions near OF-7 and site boundary
TER-MW-OB-02	Overburden well adjacent to MW-51 (bedrock well), evaluation of overburden/shallow water quality conditions and site boundary
TER-MW-OB-03	North of HBPA and Northeast of Open Catch Area
TER-MW-OB-04	Overburden well within Open Catch Area, evaluation of stormwater drainage contributions
TER-MW-OB-05	West of former HBPA and at approximate location of former sampling point BP-10 reporting ~20,000 ppt PFOS+PFOA
TER-MW-OB-06	Overburden well within approximate center of HBPA and former 2000 source removal area
TER-MW-OB-07	Overburden well within landscaping area northeast of HBPA
TER-MW-OB-08	Overburden well within current tenant parking lot, southeast of MW-63 and former samplings BP-19 and BP-20 reporting elevated PFOS+PFOA
TER-MW-OB-09	East of HBPA and near site eastern site boundary
TER-MW-OB-10	Southeast of HBPA and within landscaping area

2.4.1 Monitoring Well Installation/Groundwater Sampling

Terracon proposes installing within the overburden and bedrock zones utilizing 2-inch diameter monitoring wells as shown on Exhibit 6. Monitoring wells will be constructed of a 2-inch inner diameter (ID) flush-coupled Schedule 40, polyvinyl chloride (PVC) riser and screen. The actual installation depth and screen depth will be selected based on groundwater depth, observation of subsurface materials and headspace screening test results. In general, the screen will consist of a maximum 10-foot length of 0.010-inch machine slotted well screen.

Following placement of the assembled screen and riser, the borehole will be backfilled. The well screen depth will be backfilled with silica sand filter pack from the base to a minimum of one (1) foot above the well screen. A minimum 1-foot layer of bentonite pellets will be placed above the sand filter and hydrated. The monitoring wells will be completed by placing a locking j-plug over the riser, grouted with neat cement (or equivalent) to the ground surface and finished at existing grade with a concrete well box.

As noted in NYSDEC Comment No. 8, monitoring wells will be developed at least 24 hours post-installation. If monitoring well yield is insufficient to complete well development, consider continuing well development over consecutive days. To allow the well to equilibrate with the aquifer, it is recommended that groundwater samples be collected for analysis at least one week after well development. Low-flow purge method for groundwater sample collection is preferred over well-volume purge method. If stable drawdown cannot be achieved via low-flow, the well should then be purged dry and a sample collected once sufficient volume to collect the sample has recharged.

Monitoring wells will be developed by utilizing either a dedicated tubing or new dedicated disposable bailer, depending on the field conditions. Fluids will not be added during development process. New, dedicated well development equipment will be utilized prior to development of each well. Development will cease when a minimum of three to five well volumes have been removed.

Groundwater samples will be collected using a dedicated bailer or via low-flow sampling methods from the 10 newly installed monitoring wells.

Groundwater samples will also be collected from the existing monitoring wells including bedrock wells MW-51, MW-53, MW-60, FMW-23 and BRMW-2 and shallow/overburden monitoring wells FMW-6, FMW-8, FMW-15, FMW-17, MW-62, MW-63, MW-64.

2.4.2 Monthly Groundwater Elevation Gauging

As discussed with NYSDEC during our conference call on November 7, 2025, Terracon is incorporating a groundwater elevation gauging program in the HBPA and surrounding areas to further evaluate and understand the shallow groundwater conditions in this area of the Airport. Terracon plans to conduct monthly depth-to-water measurements at the 10 newly installed shallow/overburden wells and the following nine (9) existing monitoring wells: MW-61, MW-62, MW-63, MW-64, FMW-7, FMW-8, FMW-15, FMW-16 and FMW-17. A total of 19 monitoring wells will be gauged on a monthly basis for at least four months and the depth-to-water/groundwater elevation information will be added to Terracon's CSM.

Please note that during Terracon's mobilization, we will conduct a well condition survey to determine the viability and integrity of the existing monitoring wells. In the event that damaged and/or non-viable monitoring wells are identified, Terracon will request NYSDEC's authorization for these monitoring well replacements including possible re-location to more appropriate areas based on current groundwater PFOS and PFOA data.

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 with closures, coolers, ice, sample labels and a chain-of-custody form will be provided by the laboratory.

2.5 Investigation-Derived Waste (IDW) Management

Investigation and sample collection procedures will be conducted in accordance with local industry standard practices. Nonexpendable sampling equipment will be decontaminated between sample collection intervals using a detergent/potable water solution wash and potable water rinse. Investigative-derived waste is expected that will require characterization and/or disposal.

Based on the analytical results, Terracon will discuss the impacted soil management options with the Airport, NYSDEC in accordance with the NYSDEC-approved ISMP.

2.6 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 assessment effort. Site-specific QA/QC samples included in this IRM Work Plan are as follows:

- Trip Blanks – One sample per day for VOCs.
- Blind Duplicate – One sample per day for discrete soil samples.
- Matrix spike/matrix spike duplicate (MS/MSD) – One sample per day.
- Field Reagent Blank (FRB) for PFAS – One sample per day.

2.7 Analysis Plan

Terracon will evaluate the soil and groundwater analytical results in comparison to the Site Cleanup Objectives (SCOs), including PFOA and PFOS concentrations.

2.7.1 Remedial Investigation Soil Borings – Discrete Soil Samples

Terracon proposes collecting discrete soil samples as noted above and shown on **Exhibit 5**. Discrete soil samples will be analyzed for PFAS by EPA Method 1633A. Terracon estimates that based on the 17 proposed soil boring locations and the anticipated depth

of groundwater at approximately 6 feet, up to 85 soil samples will be collected for laboratory analysis (not including QA/QC samples).

Terracon proposes that 10% of the soil samples will be analyzed for an expanded list of COCs. Based on the above, Terracon will analyze 10 soil samples for the following expanded COCs list as noted below:

- Target Compound List (TCL) VOCs by EPA Method 8260.
- TCL SVOCs by EPA Method 8270.
- Target Analyte List (TAL) Metals by EPA Methods 6000/7000.
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.
- Pesticides by EPA Method 8081.

As noted in NYSDEC Comment No. 11, soil samples collected for expanded analysis will be biased toward observed evidence of impacts. Terracon understands that it may be necessary to collect more than 10% of soil samples for the expanded list based on field evidence of impacts. In the absence of field evidence of impacts, soil samples will be selected from soil borings within and surrounding the HBPA with reported historical elevated concentrations of PFOS+PFOA, to further evaluate these soils for remedial alternatives, which may include excavation and disposal of elevated PFOA+PFOS mass areas.

2.7.2 Remedial Investigation Groundwater Samples

Groundwater samples will be collected from the 10 proposed monitoring wells and 12 existing monitoring wells shown in **Exhibit 6**. The samples will be analyzed for PFAS by EPA Method 1633A. Three of the monitoring wells will be selected for the following expanded analysis list to provide updated analytical results.

- Target Compound List (TCL) VOCs by EPA Method 8260.
- TCL SVOCs by EPA Method 8270.
- Target Analyte List (TAL) Metals by EPA Methods 6000/7000.
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.
- Pesticides by EPA Method 8081.

2.8 Reporting to NYSDEC

Terracon will communicate with NYSDEC and the Airport on the desired project communication schedule upon approval of the LRI herein, including providing the results of this IRM-WP effort 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 subsequent assessment and/or remedial options. Terracon will discuss the soil and groundwater analytical results with the Airport and NYSDEC, including presenting an updated version of the HBPA CSM.

As noted in NYSDEC Comment No. 12, upon completion of this investigation and prior to implementation of any IRM actions, Terracon will prepare an IRM Investigation Report (IRMIR). The IRMIR will present the results of the IRM investigation and shall include an analysis of proposed IRM actions.

After consultation with NYSDEC, the IRM-WP to implement these proposed actions should be submitted for NYSDEC review under separate cover. The Construction Completion Report will document the completion of any interim remedial actions which were implemented under the approved IRMWP.

2.9 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 this IRM Work Plan, with the exception of the proposed groundwater sampling and monthly gauging of the HBPA monitoring wells.

3.0 Schedule

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

Table 4 – Proposed LRI Action Items and Schedule

Date	LRI Work Plan Task
July 2026	Submit LRI WP to NYSDEC
August 2026	LRI WP approval by NYSDEC

Table 4 – Proposed LRI Action Items and Schedule

Date	LRI Work Plan Task
Third Quarter 2026	Mobilize for soil and groundwater sample collection, monitoring well installation and monthly well depth-to-water gauging
Third/Fourth Quarter 2026	Receive Analytical results
Third/Fourth Quarter 2026	LRI Report (including Monthly Gauging Data)
Fourth Quarter 2026	Discussions with HPN/NYSDEC on LRI and IRM Approach

4.0 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

Exhibit 1: Topographic Map

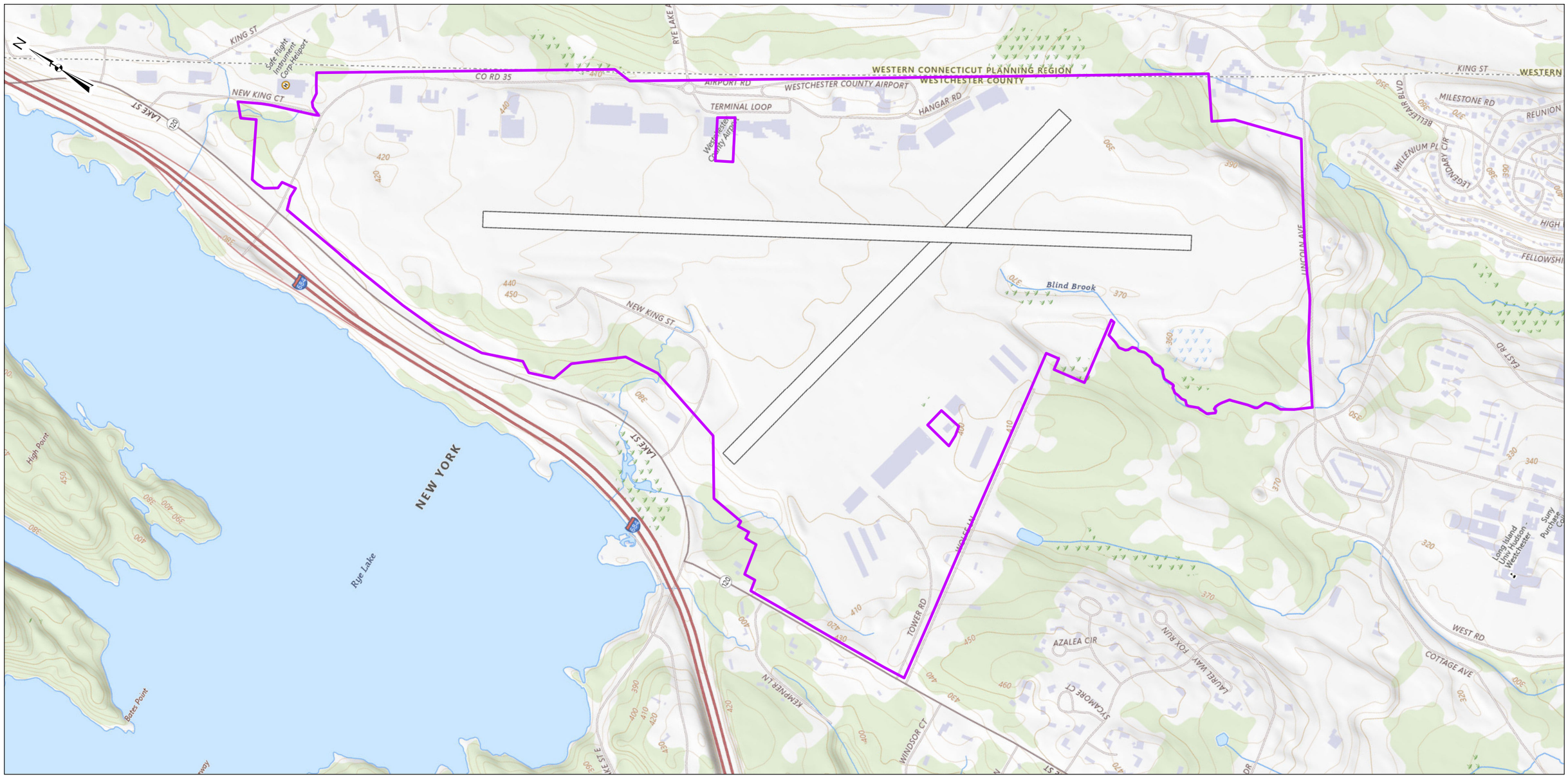
Exhibit 2: Site Diagram

Exhibit 3: Historical Burn Pit Area – Historical Activities/Features

Exhibit 4: Historical Soil and Groundwater Sampling Locations

Exhibit 5: Proposed Soil Boring Locations

Exhibit 6: Proposed Monitoring Well Locations



Legend

BCP Site Boundary

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 500 1,000 2,000

Project No.:	JA257006
Date:	Sep 2026
Drawn By:	AHP
Reviewed By:	KRH

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Buffalo, NY 14225
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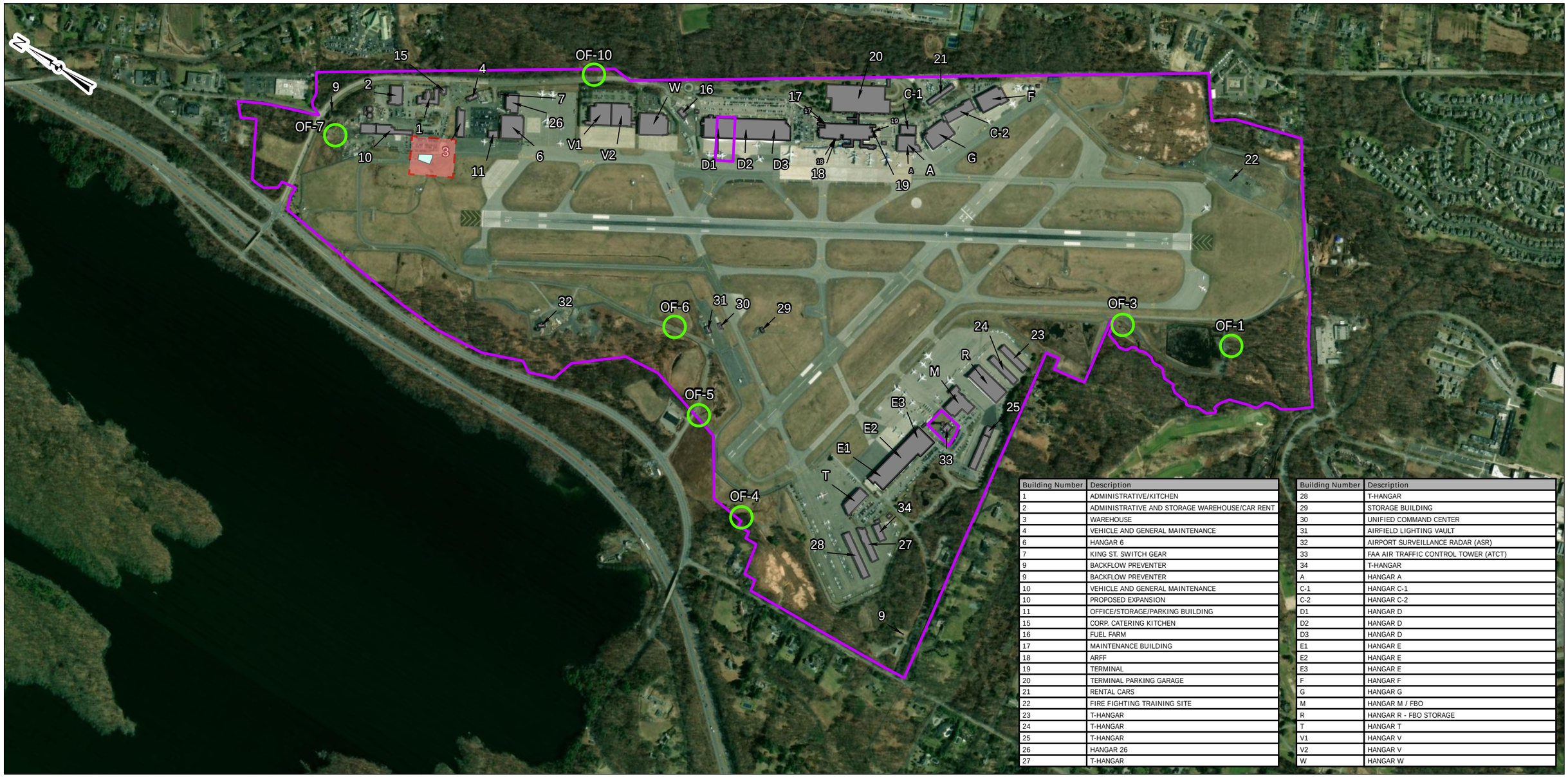
Topographic Map

Westchester County Airport
West Harrison, New York

Exhibit

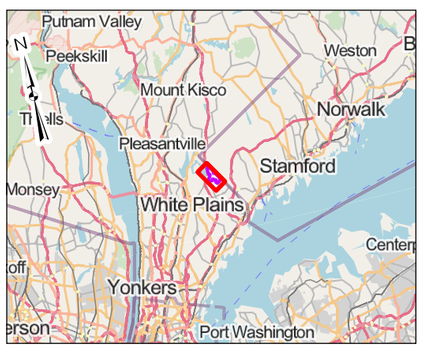
1

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Building Number	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	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 Number	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
- Buildings
- Burn Pit Boundary (Approx.)
- Former NYANG Burn Pit Area
- SPDES Outfall

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 500 1,000 2,000

Project No.:	JA257006
Date:	Sep 2026
Drawn By:	AHP
Reviewed By:	KRH

Terracon
2410 Walden Ave, Ste 100
Buffalo, NY 14225
PH. 716-398-7040 terracon.com

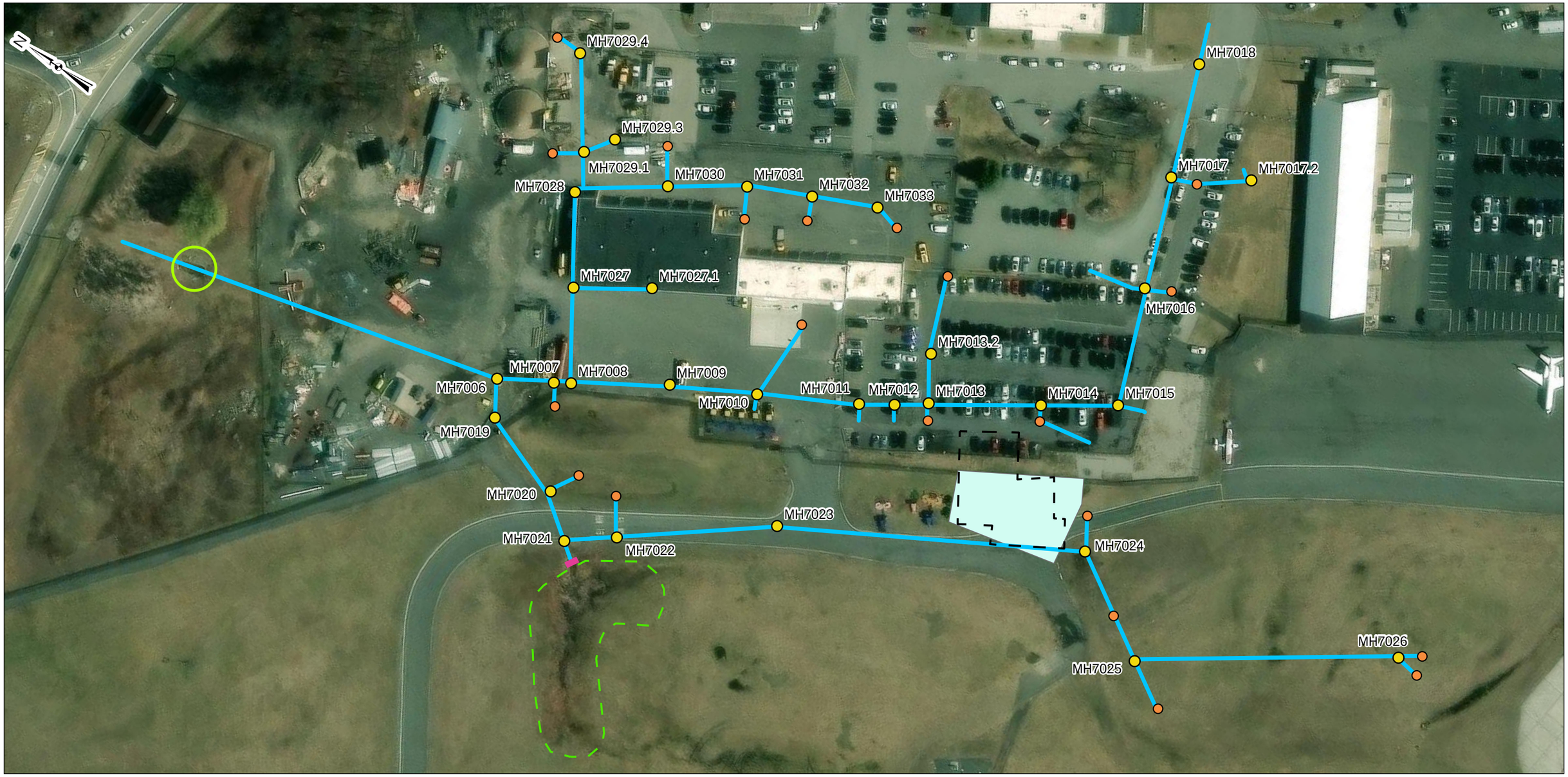
Site Diagram

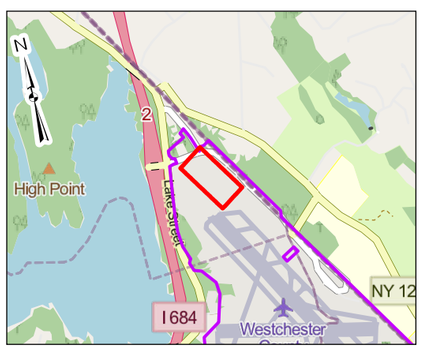
Westchester County Airport
West Harrison, New York

Exhibit

2

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Legend

- Manhole
- Drainage Inlets
- Approximate Storm Sewers
- Approximate Soil Excavation Area (2000)
- Open Catch Area
- Headwall 7021.1
- SPDES Outfall #7
- Burn Pit Boundary (Approx.)

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 50 100

Project No.:	JA257006
Date:	Oct 2026
Drawn By:	AHP
Reviewed By:	KRH

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Buffalo, NY
PH. 716-398-7040 terracon.com

Storm Sewer System and Other Features

Westchester County Airport
West Harrison, New York

Exhibit

3

Path: C:\Users\apitarresi\OneDrive - Terracon Consultants Inc\JA257006 HPN-Env - General\Historical Site Information\JA257006_WestchesterAirport_GISIMaps\Pro\JA257006_WestchesterAirport.aprx





Legend

- BCP Site Boundary
- Buildings
- Burn Pit Boundary (Approx.)
- Approximate Soil Excavation Area (2000)
- Buried C&D Debris (Approx.)
- Open Catch Area

Historical RI Locations

- Soil Boring
- Monitoring Well (Bedrock)
- Monitoring Well (Overburden)

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 75 150

Project No.:	JA257006
Date:	Oct 2026
Drawn By:	AHP
Reviewed By:	KRH

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Historical Soil and Groundwater Sampling Locations

Westchester County Airport
West Harrison, New York

Exhibit

4

Path: C:\Users\apitarresi\OneDrive - Terracon Consultants Inc\JA257006 HPN-Env - General\Historical Site Information\JA257006_WestchesterAirport_GIS\Maps\Pro\JA257006_WestchesterAirport.aprx





Legend

- Proposed Soil Boring/Monitoring Well
- Proposed Soil Boring
- BCP Site Boundary
- Buildings
- Burn Pit Boundary (Approx.)
- Approximate Soil Excavation Area (2000)
- Buried C&D Debris (Approx.)
- Open Catch Area

Historical Locations

- Monitoring Well (Bedrock)
- Monitoring Well (Overburden)

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 75 150

Project No.:	JA257006
Date:	Oct 2026
Drawn By:	AHP
Reviewed By:	KRH

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Proposed Soil and Groundwater Sampling Locations

Westchester County Airport
West Harrison, New York

Exhibit

5

Path: C:\Users\apitarresi\OneDrive - Terracon Consultants Inc\JA257006 HPN-Env - General\Historical Site Information\JA257006_WestchesterAirport_GIS\Maps\Pro\JA257006_WestchesterAirport.aprx



Legend

- Manhole
- Drainage Inlets
- Existing Monitoring Well (Bedrock)
- Existing Monitoring Well (Overburden)
- Proposed Monitoring Well (Overburden)
- Approximate Storm Sewers
- Approximate Soil Excavation Area (2000)
- Open Catch Area
- Headwall 7021.1
- SPDES Outfall #7
- Burn Pit Boundary (Approx.)

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 50 100

Project No.:	JA257006
Date:	Oct 2026
Drawn By:	AHP
Reviewed By:	KRH

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PH. 716-398-7040 terracon.com

Storm Sewer System and Proposed Monitoring Wells

Westchester County Airport
West Harrison, New York

Exhibit

6

Path: C:\Users\apitarresi\OneDrive - Terracon Consultants Inc\JA257006 HPN-Env - General\Historical Site Information\JA257006_WestchesterAirport_GISIMaps\Pro\JA257006_WestchesterAirport.aprx



Legend

- Proposed Monitoring Well (Overburden)

Historical RI Locations

- Monitoring Well (Bedrock)
- Monitoring Well (Overburden)
- Groundwater Elevation Contour (Oct 2025)
- BCP Site Boundary
- Buildings
- Burn Pit Boundary (Approx.)
- Approximate Soil Excavation Area (2000)
- Buried C&D DEbris (approx.)
- Open Catch Area

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub

Feet
0 75 150

Project No.:	JA257006
Date:	Oct 2026
Drawn By:	AHP
Reviewed By:	KRH

Terracon
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Buffalo, NY
PH. 716-398-7040 terracon.com

Historic Groundwater Flow

Westchester County Airport
West Harrison, New York

Exhibit

7

Path: C:\Users\apitarresi\OneDrive - Terracon Consultants Inc\JA257006 HPN-Env - General\Historical Site Information\JA257006_WestchesterAirport_GISMaps\Pro\JA257006_WestchesterAirport.aprx

Appendix B

NYSDEC Correspondence

Transmitted via Email

February 18, 2026

Hayley Martinez
Field Geologist
Terracon Consultants-NY, Inc.
2410 Walden Avenue, Suite 100
Buffalo, NY 14225
Hayley.martinez@terracon.com

Re: Interim Remedial Measure (IRM) for Limited Remedial Investigation (LRI)/Limited Removal Action (LRA) Historical Burn Pit Area Data Gap Investigation
Brownfield Cleanup Program
Westchester County Airport, Site No.: C360174
240 Airport Road, West Harrison, NY 10604

Dear Hayley Martinez:

The New York State Department of Environmental Conservation (DEC) has reviewed the Interim Remedial Measure (IRM) for Limited Remedial Investigation (LRI)/Limited Removal Action (LRA) Historical Burn Pit Area Data Gap Investigation (IRMWP) submitted for the Westchester County Airport (site) located at 240 Airport Road in West Harrison, New York, dated December 11, 2025. Before the IRMWP can be approved, the following comments must be addressed:

1. The area of investigation described in this work plan includes the Open Catch Area. Add discussion of the history of the Open Catch Area to this workplan. To be consistent in reporting, refer to it as the Open Catch Area, opposed to the Open Catchment Area.
2. Graphic No. 1: add a north arrow to the figure.
3. Include a discussion on surface water in the area and include surface water sampling. If drainages in and between the Burn Pit Area and Open Catch Area only convey water during storm events, consider establishing stormwater sampling locations and completing routine collection of stormwater samples to characterize the nature and potential impacts of localized stormwater flow. Consider adding at least one surface/stormwater sample location at Headwall HW7021.1, where overland flows from the Open Catch Area and its potential upgradient contributors presumably converge to enter the OF-7 sewer system.
4. Section 2.1, first bullet: include a discussion of anticipated geology/hydrogeology prior to this section. Provide reasoning for terminating

soil borings at 6 feet below grade (presumably this is depth to groundwater, and if so, indicate as much).

5. Section 2.1, first bullet: add soil borings to the north of SB-01, north of the Open Catch Area, north of SB-03, south of SB-03, south of BP-13, south of SB-16, and east of SB-16.
6. Section 2.1, fourth bullet:
    a. add installation of a bedrock monitoring well south of FMW-23, as discussed in the Remedial Investigation Work Plan. It is recommended the new well is installed south of BRMW-2, pending confirmation that BRMW-2 is a bedrock monitoring well [see comment 9, below] and after consideration of any available analytical results for that well;
    b. add installation of both an overburden and bedrock monitoring well to the northwest of the Open Catch Area;
    c. add installation of overburden monitoring wells (two) to the south of BRMW-2 and BP-13;
    d. consider installing both an overburden and a bedrock monitoring well at the proposed location furthest west (bottom, middle of Exhibit 4).
7. Include a plan to sample soilsat monitoring well installation locations.
8. Section 2.1, sixth bullet: indicate that monitoring wells will be developed at least 24-hours post installation. If monitoring well yield is insufficient to complete well development, consider continuing well development over consecutive days. To allow the well to equilibrate with the aquifer, it is recommended that groundwater samples be collected for analysis at least one week after well development. Low-flow purge method for groundwater sample collection is preferred over well-volume purge method. If stable drawdown cannot be achieved via low-flow, the well should then be purged dry and a sample collected once sufficient volume to collect the sample has recharged.
9. Section 2.1, ninth bullet: include monitoring well BRMW-2 in those to be sampled. Verify whether this well, along with BRMW-1 and MW-64, are to be considered an overburden or bedrock monitoring well and revise the work plan and figures as necessary. Include bedrock monitoring well MW-53 in those to be sampled.
10. Section 2.1, second to last bullet: expound upon the procedures surrounding investigative derived waste (at minimum refer to governing document).
11. Section 2.3, Remedial Investigation Soil Borings – Discrete Soil Samples: soil samples collected for expanded analysis are to be biased toward observed evidence of impacts. It may be necessary to collect more than 10% of soil samples for the expanded list based on field evidence of impacts. Also include how soil samples for the expanded list will be selected in the absence of field evidence of impacts.
12. Section 2.4, third paragraph and Section 3.0, table: the document to be submitted upon completion of this investigation and prior to implementation of

any IRM actions shall be the IRM Investigation Report (IRMIR). The IRMIR will present the results of the IRM investigation and shall include an analysis of proposed IRM actions. After consultation with DEC, the IRM work plan (IRMWP) to implement these proposed actions should be submitted for DEC review under separate cover. The Construction Completion Report will document the completion of any interim remedial actions which were implemented under the approved IRMWP.

13. Section 3.0: it is unclear whether the investigation report will include the monthly gauging data. A proposed submittal date of April 2026 would indicate the four rounds of monthly gauging results will not be included. Clarify what document will present monthly gauging data.
14. Considering this effort is called a data gap investigation, it would benefit the report to include those figures from the Site Characterization Report pertinent to the Historical Burn Pit and Open Catch areas.
15. Exhibits 3 and 4: include the 2000 soil excavation area.
16. Exhibit 4: add anticipated ground flow direction.

In accordance with 6 NYCRR Part 375-1.6(d)(3), provide a revised document within 30 days of receipt of this letter. Do not hesitate to reach out should any questions or issues arise, or if you would like to discuss any of the above comments: (518) 402-2029 or email: greta.kowalski@dec.ny.gov.

Sincerely,

Greta Kowalski

Greta Kowalski, P.G.
Project Manager, Remedial Bureau C
Division of Environmental Remediation

ec: A. Gasparri, Westchester County (axgc@westchestercountyny.gov)
B. Hegt, Westchester County (bdhu@westchestercountyny.gov)
F. Tejada, Westchester County (fjtc@westchestercountyny.gov)
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A. Koons, Terracon (andrew.koons@terracon.com)
D. Schneider, Terracon (dan.schneider@terracon.com)
S. McCague, NYSDEC Region 3 (steven.mccague@dec.ny.gov)
S. Saucier, NYSDEC (sarah.saucier@dec.ny.gov)
K. Thompson, NYSDEC (kiera.thompson@dec.ny.gov)
M. Doroski, NYSDOH (melissa.doroski@health.ny.gov)
K. Kulow, NYSDOH (kristin.kulow@health.ny.gov)

Appendix C

NYSDEC Comments Summary Table

Appendix C - NYSDEC Comments Summary Table

NYSDEC Program: **Brownfield Cleanup Program**
Site Name: **Westchester County Airport (HPN)**
Site No. **C360174**
Site Address: **240 Airport Road, West Harrison, NY 10604**
Work Plan: **Limited Remedial Investigation (LRI) - Data Gap Assessment**
HPN IRM Area: **Historical Burn Pit Area**
NYSDEC Correspondence Date: **18-Feb-26**

Comment No.	NYSDEC Comment	Terracon Note
1	The area of investigation described in this work plan includes the Open Catch Area. Add discussion of the history of the Open Catch Area to this work plan. To be consistent in reporting, refer to it as the Open Catch Area, opposed to the Open Catchment Area.	Acknowledged. The Work Plan Exhibits have been revised accordingly.
2	**Graphic No. 1**: add a north arrow to the figure.	Acknowledged. **Exhibit 1** is revised.
3	Include a discussion on surface water in the area and include surface water sampling. If drainages in and between the Burn Pit Area and Open Catch Area only convey water during storm events, consider establishing stormwater sampling locations and completing routine collection of stormwater samples to characterize the nature and potential impacts of localized stormwater flow. Consider adding at least one surface/stormwater sample location at Headwall HW7021.1, where overland flows from the Open Catch Area and its potential upgradient contributors presumably converge to enter the OF 7 sewer system.	Acknowledged. Terracon will collect a surface water/stormwater sample from location HW7021.1. Terracon notes that a preliminary evaluation of the existing stormwater piping/conveyance system conducted during Summer 2025. The intent of the field investigation was to better understand the potential influences from groundwater seepage and/or other stormwater sources based on the actual system branch connections.
4	**Section 2.1, first bullet**	
	Include a discussion of anticipated geology/hydrogeology prior to this section. Provide reasoning for terminating soil borings at 6 feet below grade (presumably this is depth to groundwater, and if so, indicate as much).	Terracon has included **Section 2.2** "HBPA Geology/Hydrogeology", which discusses the anticipated geology and hydrogeology anticipated within the investigation area of this LRI. These observations are based on the previous soil investigations Site Characterization Report (SCR) dated April 2021 and the most recent semi-annual groundwater sampling reports.
5	**Section 2.1, first bullet:** add soil borings to the north of SB 01, north of the Open Catch Area, north of SB 03, south of SB 03, south of BP 13, south of SB 16, and east of SB 16.	Acknowledged. The proposed soil boring locations are shown on **Exhibit 5**. Please note that Terracon has labeled these soil boring locations starting with "TER" to clearly designate the Terracon soil borings. This will serve to clearly identify the historical soil borings advanced during the April 2021 SCR from the Terracon sampling locations under this LRI. **Table 2** within the LRI narrative provides a summary of the proposed soil borings and additional notes. As discussed with NYSDEC, during our monthly project update conference call in June 2026, this LRI will be part of a phased approach for the comprehensive assessment of the HBPA during 2026 and 2027 that will be the basis for potential remedial actions within and surrounding the HBPA.
6	**Section 2.1, fourth bullet**	
	a. Add installation of a bedrock monitoring well south of FMW 23, as discussed in the Remedial Investigation Work Plan. It is recommended the new well is installed south of BRMW 2, pending confirmation that BRMW 2 is a bedrock monitoring well (see comment 9, below) and after consideration of any available analytical results for that well.	Acknowledged. **Table 3** within the LRI narrative provides a summary of the proposed monitoring wells and additional notes. As discussed with NYSDEC, during our monthly project update conference call in June 2026, this LRI will be part of a phased approach for the comprehensive assessment of the HBPA during 2026 and 2027 that will be the basis for potential remedial actions within and surrounding the HBPA.
	b. Add installation of both an overburden and bedrock monitoring well to	
	c. Add installation of overburden monitoring wells (two) to the south of	
	d. Consider installing both an overburden and a bedrock monitoring well at the proposed location furthest west (bottom, middle of Exhibit 4).	
7	Include a plan to sample soils at monitoring well installation locations.	Acknowledged. As noted in **Table 2**, several of the proposed soil borings are included with the installation of monitoring wells. As discussed with NYSDEC, during our monthly project update conference call in June 2026, this LRI will be part of a phased approach for the comprehensive assessment of the HBPA during 2026 and 2027 that will be the basis for potential remedial actions within and surrounding the HBPA.

8	**Section 2.1, sixth bullet**	
	Indicate that monitoring wells will be developed at least 24 hours post installation. If monitoring well yield is insufficient to complete well development, consider continuing well development over consecutive days. To allow the well to equilibrate with the aquifer, it is recommended that groundwater samples be collected for analysis at least one week after well development. Low flow purge method for groundwater sample collection is preferred over well volume purge method. If stable drawdown cannot be achieved via low flow, the well should then be purged dry and a sample collected once sufficient volume to collect the sample has recharged.	**Section 2.4** includes this sample procedure and approach for collecting groundwater samples.
9	**Section 2.1, ninth bullet**	
	Include monitoring well BRMW 2 in those to be sampled. Verify whether this well, along with BRMW 1 and MW 64, are to be considered an overburden or bedrock monitoring well and revise the work plan and figures as necessary. Include bedrock monitoring well MW 53 in those to be sampled.	Based on the 2021 SCR, monitoring wells BRMW-1 and BRMW-2 were installed March 2019 to depths of 44 feet and 45.75 feet below top of casing. Terracon reviewed the historical soil borings for bedrock monitoring wells MW-60, MW-51 and MW-53, located from near the northern airport boundary to south of the Open Catch Area, to evaluate the placement of the monitoring well within the competent bedrock zone. Soil borings from MW-60 and MW-51 in the northern portion of the Airport reported competent bedrock at 45 feet to 77 feet below ground surface (bgs). MW-53 located approximately 300 feet north of BRMW-1 and BRMW-2, was installed with competent bedrock observed from 65 feet to 96 feet bgs.
10	**Section 2.1**, second to last bullet: expand upon the procedures surrounding investigative derived waste (at minimum refer to governing document).	Based on the analytical results, Terracon will discuss the impacted soil management options with the Airport, NYSDEC in accordance with the NYSDEC-approved ISMP.
11	**Section 2.3**, Remedial Investigation Soil Borings – Discrete Soil Samples: soil samples collected for expanded analysis are to be biased toward observed evidence of impacts. It may be necessary to collect more than 10% of soil samples for the expanded list based on field evidence of impacts. Also include how soil samples for the expanded list will be selected in the absence of field evidence of impacts.	As noted in NYSDEC Comment No. 11, soil samples collected for expanded analysis will be biased toward observed evidence of impacts. Terracon understands that it may be necessary to collect more than 10% of soil samples for the expanded list based on field evidence of impacts. In the absence of field evidence of impacts, soil samples will be selected from soil borings within and surrounding the HBPA with reported historical elevated concentrations of PFOS+PFOA, to further evaluate these soils for remedial alternatives, which may include excavation and disposal of elevated PFOA+PFOS mass areas.
12	**Section 2.4**, third paragraph and Section 3.0, table	
	The document to be submitted upon completion of this investigation and prior to implementation of any IRM actions shall be the IRM Investigation Report (IRMIR). The IRMIR will present the results of the IRM investigation and shall include an analysis of proposed IRM actions. After consultation with DEC, the IRM work plan (IRMWP) to implement these proposed actions should be submitted for DEC review under separate cover. The Construction Completion Report will document the completion of any interim remedial actions which were implemented under the approved IRMWP.	Acknowledged and the **Sections 2.7 and 3.0** are revised to reflect this reporting sequence.
13	**Section 3.0**	
	It is unclear whether the investigation report will include the monthly gauging data. A proposed submittal date of April 2026 would indicate the four rounds of monthly gauging results will not be included. Clarify what document will present monthly gauging data.	Terracon will provide the monthly gauging data in the IRMIR. Additional rounds (months) of gauging data will be provided to NYSDEC for review in our scheduled Monthly Status Reports.
14	Considering this effort is called a data gap investigation, it would benefit the report to include those figures from the Site Characterization Report pertinent to the Historical Burn Pit and Open Catch areas.	Acknowledged.
15	Exhibits 3 and 4	The Exhibits have been revised to include the approximate limits of the 2000 soil excavation activities.
	Include the 2000 soil excavation area.	
16	Exhibit 4	Acknowledged. The groundwater flow direction based on the January 2026 WSP report is included in **Exhibit 6**.
	Add anticipated ground flow direction.	

Appendix D

2021 Site Characterization Report Reference Materials – Selected Soil Borings and Exhibits

MW-64
MW-63
BP-20
BP-19
BP-16
BP-15
FMW-8
BP-18
BP-17
BP-14
BP-13
BP-22
BP-21
FMW-7
BP-23
FMW-23
BP-12
FMW-6
MW-62
BP-11
BP-10
BP-09
BP-08
BP-07
BRMW-2
BP-06
BP-05
MW-53
BP-04
BP-03
BP-02
BP-01
MW-61
BRMW-1

Legend

- Soil Sample Location
- Former AFFF Burn Pit
- Monitoring Well (Shallow)
- Monitoring Well (Deep)

0 12.5 25 50 Feet

1 inch = 50 feet

N

FIRST ENVIRONMENT

10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405

NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 23
BURN PIT SAMPLE LOCATIONS ON
1976 AERIAL PHOTOGRAPH

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/19/2021

I:\WESCHESTER AIRPORT\GIS\1976_Aerial.mxd

Sample	Depth (ft.)	Date	PFOS (ppt)
BP-01	0.5	8/25/2020	0.8
BP-02	0.5	8/25/2020	3
BP-03	0.5	8/25/2020	8.8
BP-04	0.5	8/25/2020	27.5
BP-05	0.5	8/25/2020	27.7
BP-06	0.5	8/25/2020	101.0 D
BP-07	0.5	8/26/2020	7.0
BP-08	0.5	8/26/2020	7.1
BP-09	0.5	8/26/2020	18.2 E
BP-10	0.5	8/26/2020	69.0 DE
BP-11	0.5	8/25/2020	47.9 DE
BP-12	0.5	8/25/2020	62.1 DE
BP-13	1	8/26/2020	8.6
BP-14	0.5	8/26/2020	8.8
BP-15	0.5	8/27/2020	39.8 D
BP-16	0.5	8/27/2020	98.1
BP-17	1	8/27/2020	256.0 D
BP-18	0.5	8/27/2020	7.0 D
BP-19	0.5	8/27/2020	99.5 D
BP-20	1	8/27/2020	50.4 D
BP-21	0.5	8/27/2020	99.5 D
BP-22	0.5	8/27/2020	129.0 D
BP-23	0.5	8/27/2020	52.0 D
BP-24	1.5	7/26/2021	77.4 D
BP-25	1	7/26/2021	6.21
BP-26	1	7/26/2021	8.85
BP-27	1	7/26/2021	1.1
BP-28	1	7/26/2021	2.32
SB-01	0.5-1	3/2/2020	15.9
SB-03	0-0.5	3/5/2020	1.4
SB-16	0-0.5	3/2/2020	5.6



Legend

- Surface Soil Sample Location
- 7.1 Surface Soil PFOS (ppb)
- ND Not Detected
- D Dilution
- E Estimated

- Surface Soil PFOS 10 -50 ppb
- Surface Soil PFOS 50 -100 ppb
- Surface Soil PFOS 100 -1,000 ppb

- Inferred Isopleth
- Isopleth
- Stream
- Ephemeral Stream

- Former AFFF Burn Pit
- Subsurface Catch Basin
- Open Catch Area

0 25 50 100 Feet

1 inch = 100 feet

N

FIRST ENVIRONMENT

10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405

NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 24A
BURN PIT SURFACE SOIL PFOS
ISOCONCENTRATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	3/2/2022

K:\WESCHESTER AIRPORT\Site Characterization\Figure 25A_BurnPit_Soil_Surface_PFOS.mxd

Sample	Depth (ft.)	Date	PFOS (ppt)
BP-01	0.5	8/25/2020	0.8
BP-02	0.5	8/25/2020	3
BP-03	0.5	8/25/2020	8.8
BP-04	0.5	8/25/2020	27.5
BP-05	0.5	8/25/2020	27.7
BP-06	0.5	8/25/2020	101.0 D
BP-07	0.5	8/26/2020	7.0
BP-08	0.5	8/26/2020	7.1
BP-09	0.5	8/26/2020	18.2 E
BP-10	0.5	8/26/2020	69.0 DE
BP-11	0.5	8/25/2020	47.9 DE
BP-12	0.5	8/25/2020	62.1 DE
BP-13	1	8/26/2020	8.6
BP-14	0.5	8/26/2020	8.8
BP-15	0.5	8/27/2020	39.8 D
BP-16	0.5	8/27/2020	98.1
BP-17	1	8/27/2020	256.0 D
BP-18	0.5	8/27/2020	7.0 D
BP-19	0.5	8/27/2020	99.5 D
BP-20	1	8/27/2020	50.4 D
BP-21	0.5	8/27/2020	99.5 D
BP-22	0.5	8/27/2020	129.0 D
BP-23	0.5	8/27/2020	52.0 D
BP-24	1.5	7/26/2021	77.4 D
BP-25	1	7/26/2021	6.21
BP-26	1	7/26/2021	8.85
BP-27	1	7/26/2021	1.1
BP-28	1	7/26/2021	2.32
SB-01	0.5-1	3/2/2020	15.9
SB-02	0-0.5	3/2/2020	1.3
SB-03	0-0.5	3/5/2020	1.4
SB-04	0-0.5	3/2/2020	0.5
SB-16	0-0.5	3/2/2020	5.6



Legend

- Shallow Soil Sample Location
- 7.1 Surface Soil PFOS (ppb)
- ND Not Detected
- D Dilution
- E Estimated

- Surface Soil PFOS 10 -50 ppb
- Surface Soil PFOS 50 -100 ppb
- Surface Soil PFOS 100 -1,000 ppb

- Inferred Isopleth
- Isopleth
- Stream
- Ephemeral Stream

- Former AFFF Burn Pit
- Subsurface Catch Basin
- Open Catch Area

0 37.5 75 150 Feet

1 inch = 150 feet

N

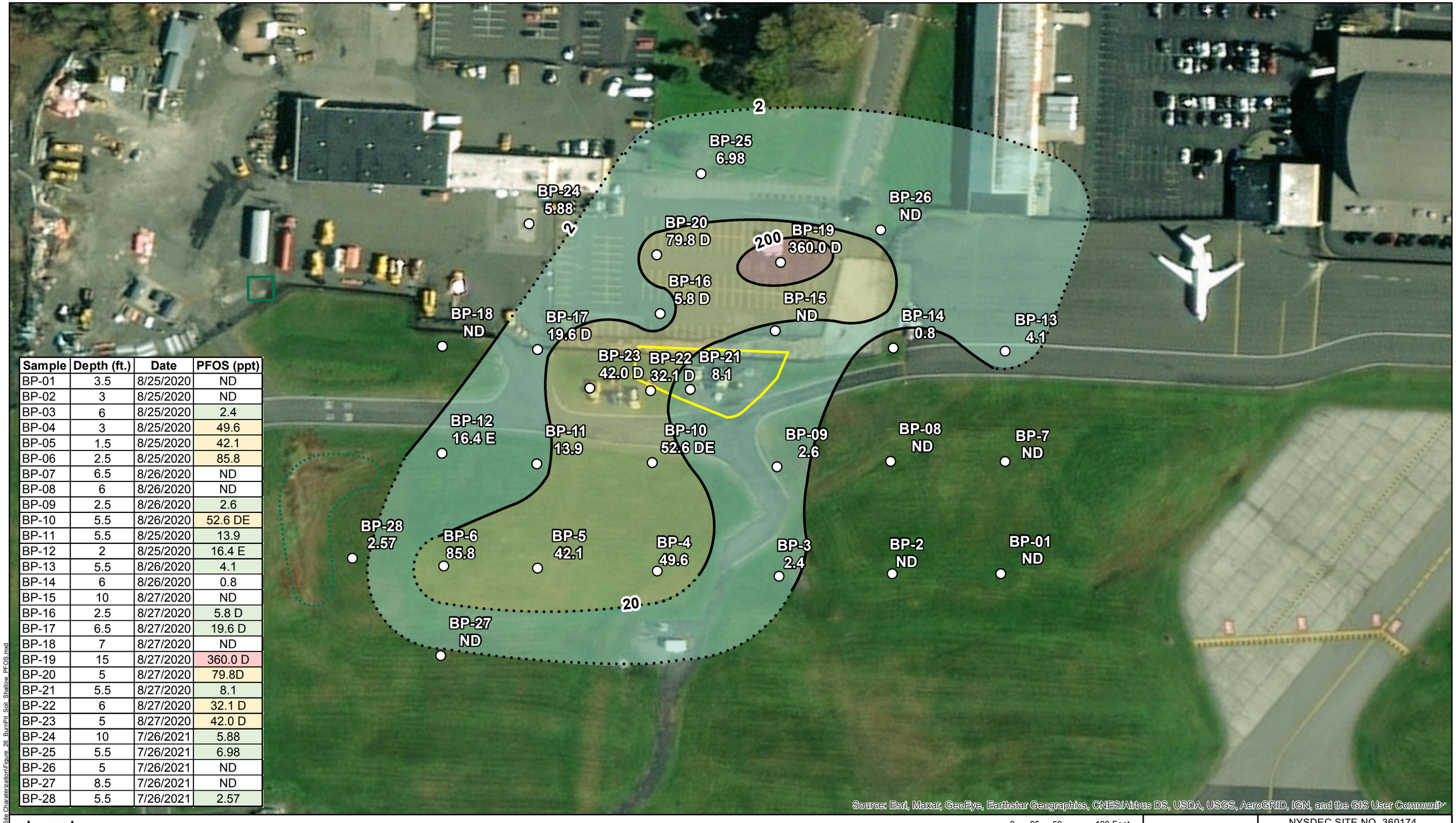
FIRST ENVIRONMENT

10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405

NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 24B
BURN PIT SURFACE SOIL PFOS
ISOCONCENTRATION MAP EXPANDED VIEW

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/23/2022

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Sample	Depth (ft.)	Date	PFOS (ppt)
BP-01	3.5	8/25/2020	ND
BP-02	3	8/25/2020	ND
BP-03	6	8/25/2020	2.4
BP-04	3	8/25/2020	49.6
BP-05	1.5	8/25/2020	42.1
BP-06	2.5	8/25/2020	85.8
BP-07	6.5	8/26/2020	ND
BP-08	6	8/26/2020	ND
BP-09	2.5	8/26/2020	2.6
BP-10	5.5	8/26/2020	52.6 DE
BP-11	5.5	8/25/2020	13.9
BP-12	2	8/25/2020	16.4 E
BP-13	5.5	8/26/2020	4.1
BP-14	6	8/26/2020	0.8
BP-15	10	8/27/2020	ND
BP-16	2.5	8/27/2020	5.8 D
BP-17	6.5	8/27/2020	19.6 D
BP-18	7	8/27/2020	ND
BP-19	15	8/27/2020	360.0 D
BP-20	5	8/27/2020	79.8D
BP-21	5.5	8/27/2020	8.1
BP-22	6	8/27/2020	32.1 D
BP-23	5	8/27/2020	42.0 D
BP-24	10	7/26/2021	5.88
BP-25	5.5	7/26/2021	6.98
BP-26	5	7/26/2021	ND
BP-27	8.5	7/26/2021	ND
BP-28	5.5	7/26/2021	2.57

Legend

- Soil Sample Location
- 2.6 Shallow Soil PFOS (ppb)
- ND Not Detected
- D Dilution
- E Estimated
- Shallow Soil PFOS 2-20 ppb
- Shallow Soil PFOS 20-200 ppb
- Shallow Soil PFOS >200 ppb
- Inferred Isopleth
- Isopleth
- Former AFFF Burn Pit
- Subsurface Catch Basin
- Open Catch Area

0 25 50 100 Feet

1 inch = 100 feet

N

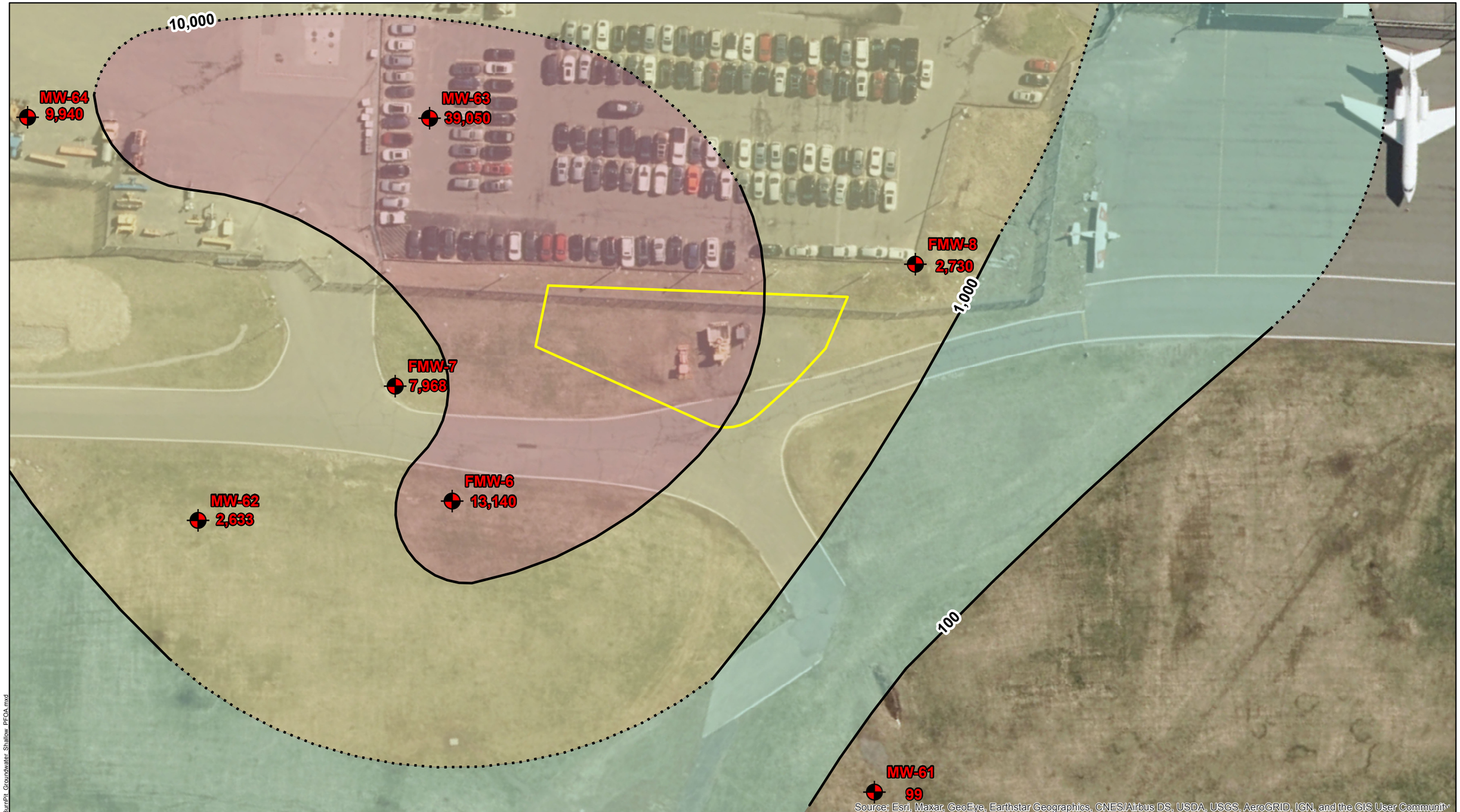
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Butler, NJ 07405

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WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 25
BURN PIT SHALLOW SOIL PFOS ISOCONCENTRATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/16/2022

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Legend

- Shallow Monitoring Well
- 99 Shallow Groundwater PFOS+PFOA Concentration (ppt)
- Shallow Groundwater PFOS+PFOA 100-1,000 ppt
- Shallow Groundwater PFOS+PFOA 1,000-10,000 ppt
- Shallow Groundwater PFOS+PFOA >10,000 ppt
- Isopleth
- Inferred Isopleth
- Former AFFF Burn Pit

N

0 12.5 25 50 Feet

1 inch = 50 feet

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White Plains, Westchester County, New York
FIGURE 26A
BURN PIT MW SHALLOW GROUNDWATER PFOS/PFOA ISOCONCENTRATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/26/2021

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BP-20
90,700

BP-19
3,480

BP-16
13,780

BP-15
1,397

BP-18
3,416

BP-17
13,775

BP-14
917

BP-13
1,370.9

BP-23
11,412

BP-22
3,208

BP-21
11,808

BP-12
1,938

BP-11
1,420

BP-10
20,473

BP-09
408.4

BP-08
109.9

BP-07
1,068

BP-06
400.5

BP-05
171.8

BP-04
NS

BP-03
102.5

BP-02
118.6

BP-01
59.2

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Shallow Groundwater Sample Location
- 400.5 Shallow Groundwater PFOS+PFOA Concentration (ppt)
- Shallow Groundwater PFOS+PFOA 100-1,000 ppt
- Shallow Groundwater PFOS+PFOA 1,000-10,000 ppt
- Shallow Groundwater PFOS+PFOA >10,000 ppt
- Contour
- Inferred
- Former AFFF Burn Pit

N

0 12.5 25 50 Feet

1 inch = 50 feet

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NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 26B
BURN PIT APS SHALLOW GROUNDWATER
PFOS/PFOA ISOCONCENTRATION MAP

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/26/2021

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Sample	BP-01	BP-02	BP-03	BP-05	BP-06	BP-07	BP-08	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16	BP-17	BP-18	BP-19	BP-20	BP-21	BP-22	BP-23
Date	8/11/2020	8/11/2020	8/11/2020	8/12/2020	8/12/2020	8/14/2020	8/14/2020	8/13/2020	8/13/2020	8/12/2020	8/12/2020	8/14/2020	8/14/2020	8/17/2020	8/17/2020	8/13/2020	8/13/2020	8/17/2020	8/17/2020	8/20/2020	8/13/2020	8/13/2020
Depth	7.5'	7.2'	5.5'	6.2'	7'		8.8'	7.1'	7'	10.2'	5.1'			9.1'	5.8'	10.5'	5.1'	8'	8'	8.7'		7.7'
PFOS	49.7	75.8	83.8	113	379 D		65.9	368 BD	20000 D	1240 D	1040D			1260 D	8330 D	13200 D	3150 BD	1920	68100 D	11500 D		10900 D
PFOA	9.47	42.8	18.7	58.8	21.5 D		44	40.4 D	473 D	180 D	898 D			137 D	5450 D	575 D	266 D	1560 D	22600 D	308 D		512 D
Depth	10.1'		9.2'			13'	20'	13.1'	15.1'	13'	9'	13.6'	15.1'		10.3'	17.5'	18.2'	14.5'	14'	14.5'	13.5'	11.7'
PFOS	63.9		113			947 D	646 D	342 D	2410 D	646 D	1640 BD	1290 D	809 D		1370 D	2000 BD	882 BD	1290 D	16100 D	380 D	3040 BD	5690 BD
PFOA	10.5		11.5			121	66.3	31.8	127	34.1	91.9	80.9	108		224 D	138	65.7	120 D	2820	20.7	168 D	434 D
Depth	13.1'							16.4'														
PFOS	NT							314 D														
PFOA	NT							33.3														

Sample	DG-01	DG-02	DG-03	DG-04	DG-05	DG-06	DG-08	DG-10	DG-11	DG-12	DG-13	DG-14	DG-15	DG-16	DG-17	DG-18	DG-19	DG-21	DG-22	DG-22	DG-23
Date	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/14/2020	8/14/2020	8/20/2020	8/20/2020	8/19/2020	8/19/2020	8/19/2020	8/19/2020	8/18/2020	8/24/2020	8/18/2020	8/24/2020	8/18/2020	8/18/2020	8/19/2020	8/19/2020	8/19/2020
Depth	7'	5.9'	6'	6'				7.2'			14'	5.6'	7'					9.3'			10.3'
PFOS	309 D	310 D	313 D	15300 D				2.38			38.1	39.7	45.2	19		1240 D		91.8 D			22.5
PFOA	69.3 D	13.9	26.5	414 D				ND			13.4	25.7	17.7	18.9		116		108 D			6.4
Depth	11'	8.1'	11'	9.2'	14.1'	14.5'			19'		16.6'	10.3'	10.6'		12.3'		18'		20.4'	17.6'	
PFOS	1150 D	337 D	35.5	12600 D	22.7	32			21.6		12.1	65.6	26.4		10.7		703 D		13.2	14.5	
PFOA	106	13.8	4.47	257 D	7.91	17.6			13.9		8.83	45.1	18		16.8		23.8 D		8.16	14.8	
Depth						22.1'	34.8'			22'											
PFOS						36.6	3.81			7.91											
PFOA						15.2	4.99			10.1											

NOTES
D=result is from an analysis that required a dilution
ND=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
NT=this indicates the analyte was not a target for this sample

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Groundwater Sample Location

- Burn Pit Investigation Sample Location
- Downgradient Investigation Sample Location
- Former AFFF Burn Pit
- Subsurface Catch Basin
- Open Catch Area

N

0 75 150 300 Feet

1 inch = 300 feet

FIRST ENVIRONMENT

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Butler, NJ 07405

NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 27
BURN PIT/DOWNGRADIENT
GROUNDWATER PFOS & PFOA RESULTS

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	2/19/2021

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APPENDIX B
1976 to 1995 Aerial Photographs



Photo 1. 1976– Circle marks the approximate location of the NYANG Burn Pit

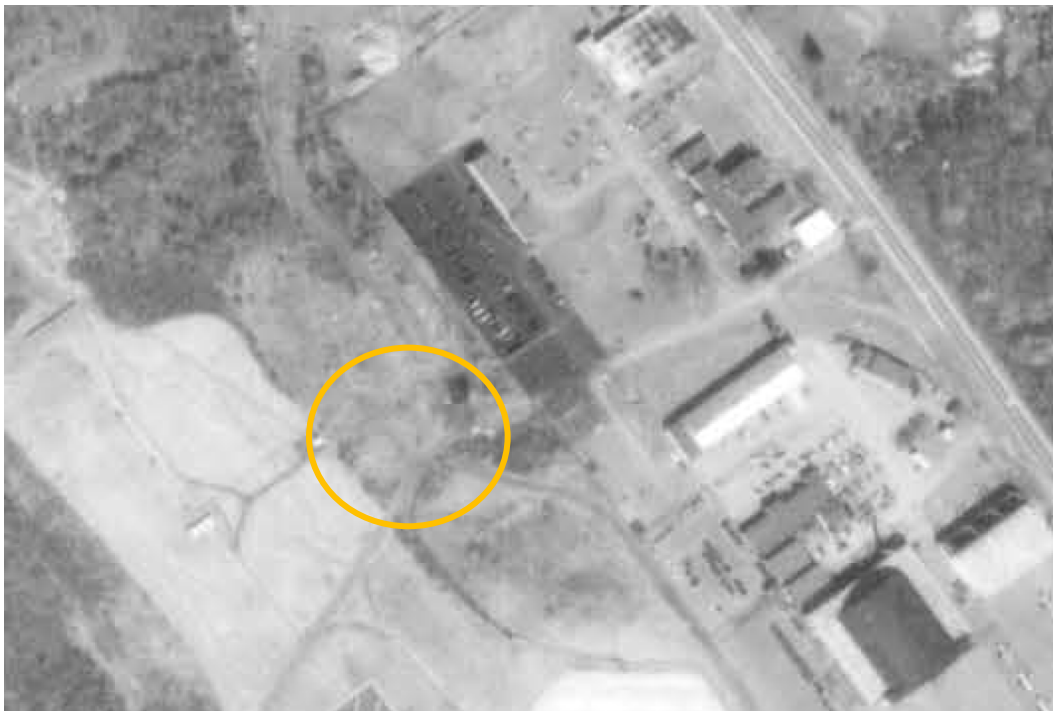


Photo 2. 1980– Circle marks the approximate location of the NYANG Burn Pit. Dark colored area believed to be the Burn Pit location.

APPENDIX B
1976 to 1995 Aerial Photographs



Photo 3. 1986 – Circle marks the approximate location of the NYANG Burn Pit



Photo 4. 1990– Circle marks the approximate location of the former NYANG Burn Pit.



Photo 5. 1995 – Circle marks what appears to be the absence Burn Pit

First Environment, Inc.
10 Park Place, Bldg 1, Suite 504
Butler, NJ 07405
Telephone: 973-334-0003

BORING NUMBER BP-09

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION White Plains, NY
DATE STARTED 08/26/20 **COMPLETED** 08/26/20
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 3.00 ft
LOGGED BY DHFL **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	GB BP-09 (0-0.5)		PID = 0		(SM) Brown, moist, SAND, little silt, few gravel, sand fine to coarse Alternates with thin layers of asphalt PFOS Soil - 18.2 ppb	
			PID = 0			
			PID = 0			
			PID = 0			
	MC 1		PID = 0			
			PID = 0		3.0 ▽ PFOS Soil - 2.6 ppb	
	GB BP-09 (2.5-3)		PID = 0		(SP-SM) Gray, wet, SAND, few silt, sand fine to medium	
			PID = 0			
			PID = 0			
5			PID = 0			
			PID = 0		5.5	
			PID = 0		(SP-SM) Brown, wet, SAND, few silt, sand fine to medium	
			PID = 0			
			PID = 0			
	MC 2		PID = 0		PFOS Groundwater - 368 ppt	
			PID = 0		8.0	
			PID = 0		(SM) Gray, wet SAND, little silt, trace gravel, sand fine to coarse	◄Backfilled with bentonite
			PID = 0			
			PID = 0			
10			PID = 0		10.0	
			PID = 0		(SM) Brown, wet, SAND, little to few silt, trace gravel, sand fine to coarse	
			PID = 0			
	MC 3		PID = 0			
			PID = 0			
	GB BP-09 (12.5-13)		PID = 0		12.5	
					13.0 (SM) Brown to black, wet, SAND, little silt Begining of SAPROLITE PFOS Soil - Not Tested	
					SAPROLITE PFOS Groundwater - 342 ppt	
15						
					16.5 PFOS Groundwater - 314 ppt	
					Bottom of borehole at 16.5 feet.	

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 02/12/21 15:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\WESTC028\BURN PIT BORINGS.GPJ

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Butler, NJ 07405
Telephone: 973-334-0003

BORING NUMBER BP-11

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION White Plains, NY
DATE STARTED 08/26/20 **COMPLETED** 08/26/20
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 6.00 ft
LOGGED BY DHFL **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	GB BP-11 (0-0.5)		PID = 0		(SM) Brown, moist, SAND, little silt, sand fine to medium	
			PID = 0		PFOS Soil - 47.9 ppb	
			PID = 0		1.5	
			PID = 0		2.0 Cobble - granite	
	MC 1		PID = 0		2.5 (SP-SM) Gray, moist, SAND, few silt	
			PID = 0		3.0 Asphalt - 6 inches	
					No recovery below 3 feet - Asphalt plugged sampling device	
5					5.0	
	GB BP-11 (5.5-6)		PID = 0		(ML) Dark gray, moist, SILT, few sand, sand fine	
			PID = 0		PFOS Soil - 13.9 ppb	
			PID = 0		6.0 ▽	
			PID = 0		(ML) Gray, wet, SILT, few sand, trace gravel, sand fine to medium	
	MC 2		PID = 0		7.0 (SM) Brown, wet, SAND, little silt, trace gravel, sand fine to coarse	◄Backfilled with bentonite
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
10			PID = 0			
			PID = 0		PFOS Groundwater - 1,240 ppt	
			PID = 0			
			PID = 0			
			PID = 0			
	MC 3		PID = 0			
			PID = 0			
			PID = 0			
			PID = 0		PFOS Groundwater - 646	
			PID = 0			
	GB BP-11 (14-14.5)		PID = 0		14.5 PFOS Soil - Not Tested	
15			PID = 0		15.0 SAPROLITE	

Bottom of borehole at 15.0 feet.

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 02/12/21 15:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\WESTC028\BURN PIT BORINGS.GPJ

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Telephone: 973-334-0003

BORING NUMBER BP-14

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION White Plains, NY
DATE STARTED 08/26/20 **COMPLETED** 08/26/20
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 6.50 ft
LOGGED BY DHFL **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	GB BP-14 (0-0.5)		PID = 0		(SM) Dark brown, moist, SAND, some silt, few gravel, sand fine to medium PFOS Soil - 8.8 ppb	
	MC 1		PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
5			PID = 0			
			PID = 0			
			PID = 0			
	GB BP-14 (6-6.5)		PID = 0		▽ (ML) Gray, moist to wet, SILT, few sand PFOS Soil - 0.8 ppb	
	MC 2		PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
10			PID = 0			Backfilled with bentonite
			PID = 0		(SM) Gray, wet, SAND, some silt, sand fine to medium	
			PID = 0			
			PID = 0			
			PID = 0		(ML) Grayish brown, wet, SILT, little sand, sand fine	
	MC 3		PID = 0			
			PID = 0		(SP-SM) Brown, wet, SAND, few to little silt, sand fine to coarse	
			PID = 0			
			PID = 0			
			PID = 0			
15			PID = 0			
	GB BP-14 (15-15.5)		PID = 0		(SP-SM) Gray, wet, SAND, few silt, trace gravel, sand fine to coarse PFOS Soil - Not Tested PFOS Groundwater - 809	
	MC 4		PID = 0			
			PID = 0		Grades coarser with depth	
			PID = 0		SAPROLITE	
			PID = 0			
			PID = 0			

Bottom of borehole at 18.5 feet.

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 02/12/21 15:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\WESTC028\BURN PIT BORINGS.GPJ

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10 Park Place, Bldg 1, Suite 504
Butler, NJ 07405
Telephone: 973-334-0003

BORING NUMBER BP-15

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION White Plains, NY
DATE STARTED 08/27/20 **COMPLETED** 08/27/20
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 2.00 ft
LOGGED BY DHFL **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0		0.5 ASPHALT - 6 inches	
	GB BP-15 (0.5-1)		PID = 0		(ML) Gray, moist to wet, SILT, few sand, organic odor PFOS Soil - 39.8	
			PID = 0		▽ 6 inches of wood debris	
	MC 1		PID = 0		2.5 (SP-SM) Gray, wet, SAND, few silt, sand fine to medium	
5			PID = 0		5.0	
			PID = 0		(SM) Brown, wet, SAND, some silt, trace gravel, sand fine to medium	
			PID = 0		6.0 (SP-SM) Brown, moist, SILT, few to little sand, few gravel, sand fine to medium	
	MC 2		PID = 0		7.0 (SP-SM) Dark brown, wet, SAND, few silt, sand fine to coarse	
			PID = 0		PFOS Groundwater - 1,260	
10			PID = 0		10.0	◄Backfilled with bentonite
	GB BP-15 (10-10.5)		PID = 0		(SP-SM) Brown, wet, SAND, few silt, few gravel, sand fine to coarse, weighted coarse PFOS Soil - Not Detected	
	MC 3		PID = 0		13.0 (SP-SM) Brown, wet, SAND, few silt, sand fine	
15			PID = 0		15.0	
	GB BP-15 (15-15.5)		PID = 0		(SM) Brown, wet, SAND, little silt, trace gravel, sand fine to coarse PFOS Soil - Not Tested	
			PID = 0		16.5 (SP-SM) Grayish brown, wet, SAND, few silt, sand fine to medium	
	MC 4		PID = 0		18.5 SAPROLITE	
20			PID = 0		20.0	

Bottom of borehole at 20.0 feet.

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 02/12/21 15:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\WESTC028\BURN PIT BORINGS.GPJ

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Butler, NJ 07405
Telephone: 973-334-0003

BORING NUMBER BP-18

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION White Plains, NY
DATE STARTED 08/27/20 **COMPLETED** 08/27/20
GROUND ELEVATION _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 7.50 ft
LOGGED BY DHFL **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0	GB BP-18 (0-0.5)		PID = 0		(SM) Brown, moist, SAND, little to some silt, trace gravel	
			PID = 0		PFOS Soil - 7.0 ppb	
			PID = 0			
			PID = 0			
			PID = 0		2.0	
	MC 1		PID = 0		2.5 Asphalt - 6 inches	
					No recovery below 2.5'	
5					5.0	
			PID = 0		5.5 (SM) Gray, wet, SAND, little silt, sand medium to coarse	
			PID = 0		Perched water	
			PID = 0		PFOS Groundwater - 3,150 ppt	
			PID = 0		(CL) Dark to light gray, moist, CLAY, some silt, moist	
	GB BP-18 (7-7.5)		PID = 0		7.5 ▽ PFOS Soil - Not Detected	
	MC 2		PID = 0		(SP-SM) Brown, wet, SAND, few silt, sand fine to medium	
			PID = 0			
			PID = 0			
			PID = 0			
10			PID = 0		10.0	Backfilled with bentonite
			PID = 0		(SP-SM) Gray, wet, SAND, few silt, few gravel, sand fine to coarse	
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
	MC 3		PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
			PID = 0			
15			PID = 0			
	GB BP-18 (15-15.5)		PID = 0		PFOS Soil - Not Tested	
			PID = 0			
			PID = 0			
			PID = 0			
	MC 4		PID = 0		17.5	
			PID = 0		18.0 (SM) Brown, wet, SAND, little silt, few gravel, sand fine to coarse	
			PID = 0		SAPROLITE	
			PID = 0		PFOS Groundwater - 882 ppt	
			PID = 0			
			PID = 0			
20			PID = 0		20.0	

Bottom of borehole at 20.0 feet.

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WELL NUMBER MW-51

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION Westchester, NY
DATE STARTED 04/06/20 **COMPLETED** 04/27/20
GROUND ELEVATION 415.73 ft NAD83 **HOLE SIZE** 8 / 4 inches
DRILLING CONTRACTOR Summit Drilling
GROUND WATER LEVELS:
DRILLING METHOD Sonic / Air Rotary
AT TIME OF DRILLING 50.50 ft / Elev 365.23 ft
LOGGED BY DHFL **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING 6.10 ft / Elev 409.63 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0			SM		(SM) Dark brown, moist, SAND, little silt, trace gravel, sand fine to coarse	PID = 0
					1.0 414.7	PID = 0.2
	MC 1	80	ML		(ML) Brown, moist, SILT, little sand, trace gravel, sand fine to medium	PID = 0.1
						PID = 0.1
						PID = 0.2
						PID = 0
						PID = 0.2
					4.0 411.7	PID = 0.1
5			SM		(SM) Light brown, moist, SAND, little silt, trace to few gravel, sand fine to medium, gravel fine	
						PID = 0.2
						PID = 0.1
					6.0 409.7	PID = 0
	MC 2	100	ML		(ML) Brown and gray, moist, SILT, little sand, trace gravel, sand fine PFOS Groundwater - 39 ppt	PID = 0.2
						PID = 0.1
					8.0 407.7	PID = 0.1
			SM		(SM) Light grayish brown, moist, SAND, little silt, little gravel	PID = 0
					9.0 406.7	PID = 0.2
			SM		(SM) Brown, moist, SAND, little silt, little gravel	PID = 0.2
10					10.0 405.7	PID = 0.1
			SM		(SM) Dark brown to black, moist, SAND, little silt, trace gravel, sand fine to coarse, gravel fine Faint petroleum odor, akin to hydraulic fluid	PID = 3
	MC 3	100				PID = 3.1
						PID = 6.2
						PID = 7.5
						PID = 22.1
						PID = 56.2
					13.5 402.2	PID = 229.6
					Light gray, BOULDER, schistose	PID = 0
						PID = 0
15					15.0 400.7	PID = 0
			SP		(SP) Brown, moist, SAND, trace silt, trace gravel	PID = 0
						PID = 0
						PID = 0
	MC 4	80				PID = 0
					17.5 398.2	PID = 0
			SM		(SM) Gray and white banded, moist, schistose BEDROCK, completely weathered, very friable - SAPROLITE	PID = 0
						PID = 0
						PID = 0
						PID = 0
20						PID = 0

WELL DIAGRAM

Casing Type: 4 inch steel / 4 inch open

- Flushmount Cap
- 4 inch steel casing set in grout

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WELL NUMBER MW-51

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
20	MC 5	100	SM		(SM) Gray and white banded, moist, schistose BEDROCK, completely weathered, very friable - SAPROLITE *(continued)* Decreasing sand with depth	PID = 0 PID = 0 PID = 0 PID = 0	
					22.0 393.7		
					Gray and white, moist, schistose BEDROCK, slightly to highly weathered, competent	PID = 0 PID = 0	
25	MC 6	100				PID = 0 PID = 0 PID = 0 PID = 0	
	MC 7	100				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	4 inch steel casing set in grout
30	MC 8	100				PID = 0 PID = 0 PID = 0 PID = 0	
35	AU 9					PID = 0	
	AU 10					PID = 0 PID = 0	4 inch open borehole
40	AU 11				42.0 373.7 Light to dark gray, orange brown, schistose BEDROCK, slighty weathered	PID = 0	

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WELL NUMBER MW-51

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
45					Light to dark gray, orange brown, schistose BEDROCK, slighty weathered *(continued)*	PID = 0	
	AU 12					PID = 0 PID = 0	4 inch open borehole
50	AU 13				▽ Fracture - 1 to 2 gallons of water per minute	PID = 0	
				52.0	363.7		

Bottom of borehole at 52.0 feet.

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WELL NUMBER MW-52

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION Westchester, NY
DATE STARTED 04/07/20 **COMPLETED** 05/06/20
GROUND ELEVATION 402.56 ft NAD83 **HOLE SIZE** 8 / 4 inches
DRILLING CONTRACTOR Summit Drilling
GROUND WATER LEVELS:
DRILLING METHOD Sonic / Air Rotary
AT TIME OF DRILLING ---
LOGGED BY DHFL **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING 12.04 ft / Elev 390.52 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							Casing Type: 4 inch steel / 4 inch open
5	MC 1	40	SM		(SM) Brown, moist, SAND, some silt, few gravel, sand fine to medium, gravel fine	PID = 0	Flushmount Cap
					5.0 / 397.6		
10	MC 2	50	SM		(SM) Light brownish gray to gray, moist, SAND, little to some silt, few gravel, trace cobbles, sand fine to coarse, gravel fine to coarse	PID = 0	
15	MC 3	60	SM		PFOS Groundwater - 9 ppt	PID = 0	4 inch steel casing set in grout
					13.5 / 389.1		
			SM		(SM) Dark gray, moist, SAND, little silt, trace gravel, trace wood debris, sand fine to medium, gravel fine	PID = 0	
					16.5 / 386.1		
20	MC 4	80	ML		(ML) Gray, moist, SILT, little sand, trace clay, occasional cobbles, sand fine to medium	PID = 0	
					18.0 / 384.6		
			ML		(ML) Gray to brown, moist, SILT, little sand, few clay, sand fine	PID = 0	
					20.0 / 382.6		

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WELL NUMBER MW-52

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
20							
	MC 5	70	SM		(SM) Light brown, moist, SAND, some silt, few to little gravel, sand fine to coarse, gravel subround, fine to coarse	PID = 0	
25					25.5 377.1	PID = 0	
	MC 6	80	SM		(SM) Gray, moist, SAND, little silt, few gravel, trace clay, trace cobbles, sand fine to coarse, gravel fine to coarse, probable TILL	PID = 0	
30					30.5 372.1	PID = 0	
	MC 7	100	SM		(SM) Brown and gray striped, moist, highly weathered bedrock - Schistose	PID = 0	◄4 inch steel casing set in grout
					34.0 368.6	PID = 0	
35					Schistose boulder 35.0 367.6	PID = 0	
	MC 8	100			Highly to completely weathered BEDROCK, not competent, SAPROLITE	PID = 0	
					39.0 363.6	PID = 0	
40					Moderately weathered BEDROCK 40.0 362.6	PID = 0	
	MC 9	92			Highly to completely weathered BEDROCK, not competent, schistose	PID = 0	

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WELL NUMBER MW-52

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
45					Highly to completely weathered BEDROCK, not competent, schistose *(continued)*	PID = 0 PID = 0 PID = 0 PID = 0	
50	MC 10	50				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					50.0		
55	MC 11	50			Moderately weathered schistose BEDROCK, competent	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	4 inch steel casing set in grout
60	MC 12	30				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					60.0		
	AU 13				Dark gray schistose BEDROCK, competent	PID = 0	
65	AU 14				Fracture at 64'		

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WELL NUMBER MW-52

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
					Dark gray schistose BEDROCK, competent *(continued)* Fracture at 66' - Total water less than 1/4 gallon / minute	PID = 0	
					67.0 335.6 Brown, schistose BEDROCK, competent		
70	AU 15				Softer 70' - 71', fracture at 70', fracture at 71' - 1 to 2 gallons/minute	PID = 0	4 inch open borehole
					72.0 330.6		

Bottom of borehole at 72.0 feet.

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WELL NUMBER MW-53

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION Westchester, NY
DATE STARTED 04/09/20 **COMPLETED** 04/28/20
GROUND ELEVATION 417.79 ft NAD83 **HOLE SIZE** 8 / 4 inches
DRILLING CONTRACTOR Summit Drilling
GROUND WATER LEVELS:
DRILLING METHOD Sonic / Air Rotary
AT TIME OF DRILLING ---
LOGGED BY DHFL **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING 5.69 ft / Elev 412.10 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							Casing Type: 4 inch steel / 4 inch open
	MC 1	50	SM		(SM) Brown, moist, SAND, some silt, trace gravel, sand fine to medium, gravel fine	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	Flushmount Cap
5							
	MC 2	100			PFOS Groundwater - 287 ppt	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					7.5 410.3		
					(SM) Light grayish brown to gray, moist, SAND, little silt, few gravel, sand fine to coarse, gravel fine	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
10							
	MC 3	80	SM			PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	4 inch steel casing set in grout
15					15.0 402.8		
	MC 4	70	SP-SM		(SP-SM) Gray, wet, SAND, few to little silt, little gravel, sand fine to coarse, gravel fine to coarse	PID = 0 PID = 3.1 PID = 49.7 PID = 33.2 PID = 17.1 PID = 3.4 PID = 2.7 PID = 7.6 PID = 51.2 PID = 7.7	
20							

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WELL NUMBER MW-53

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
20							
25	MC 5	70	SP-SM		(SP-SM) Gray, wet, SAND, few to little silt, little gravel, sand fine to coarse, gravel fine to coarse *(continued)*	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
30	MC 6	100			25.0 392.8 Black and white striped, highly weathered, schistose BEDROCK - Not competent, SAPROLITE	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
35	MC 7	100				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	◄4 inch steel casing set in grout
40	MC 8	100			35.0 382.8 Black and white striped, moderately weathered, schistose BEDROCK - not competent, SAPROLITE	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
	MC 9	100				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	

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WELL NUMBER MW-53

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
45					Black and white striped, moderately weathered, schistose BEDROCK - not competent, SAPROLITE *(continued)*	PID = 0 PID = 0 PID = 0 PID = 0	
50	MC 10	100				PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					50.0 367.8		
55	MC 11	100			Black and white striped, moderately weathered, schistose BEDROCK - not competent, 0.5 to 1.5" Feldspar inclusions - SAPROLITE	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	◄4 inch steel casing set in grout
					55.0 362.8		
60	MC 12	100			Black and white striped, moderately weathered, schistose BEDROCK - not competent, SAPROLITE	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					60.0 357.8		
					Gray, moderately weathered, schistose BEDROCK, stronger	PID = 0 PID = 0 PID = 0 PID = 0	
					62.0 355.8		
65	MC 13	100			Gray, schistose, BEDROCK, easily friable	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	
					65.0 352.8		
					Black and white, moist, SCHIST BEDROCK, occasional pinkish brown feldspar crystals, comepetent	PID = 0	

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WELL NUMBER MW-53

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
70	MC 14	50			Black and white, moist, SCHIST BEDROCK, occasional pinkish brown feldspar crystals, comepetent *(continued)*	PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0 PID = 0	4 inch steel casing set in grout
	AU 15				70.0 347.8 Gray, schistose BEDROCK, Unweathered	PID = 0	
	AU 16					PID = 0	
75					Fracture - moist	PID = 0	
	AU 17					PID = 0	
80						PID = 0 PID = 0	4 inch open borehole
	AU 18					PID = 0 PID = 0	
85						PID = 0	
	AU				Fracture	PID = 0	

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WELL NUMBER MW-53

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
90	19				Gray, schistose BEDROCK, Unweathered *(continued)* Fracture - Total of 1/4 gallon/min	PID = 0	
	AU 20				Fracture	PID = 0	4 inch open borehole
95					Fracture - Total water 1/2 to 1 gallon/min	PID = 0	
					96.0 321.8 Bottom of borehole at 96.0 feet.	PID = 0	

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WELL NUMBER MW-60

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION Westchester, NY
DATE STARTED 04/23/20 **COMPLETED** 05/01/20
GROUND ELEVATION 405.63 ft NAD83 **HOLE SIZE** 8 / 4 inches
DRILLING CONTRACTOR Summit Drilling
GROUND WATER LEVELS:
DRILLING METHOD Sonic / Air Rotary
AT TIME OF DRILLING 10.00 ft / Elev 395.63 ft
LOGGED BY DHFL **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING 10.04 ft / Elev 395.59 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0	MC 1		SM		(SM) Brown, moist, SAND, little silt, trace gravel, sand fine to medium	PID = 0	3 foot stick up; Casing Type: 4 inch steel / 4 inch open hole
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
5	MC 2					PID = 0	
						PID = 0	
						PID = 0	
					6.5 399.1	PID = 0	
			SM		(SM) Dark brown and gray, moist, SAND, little silt, trace to few gravel, sand fine to medium, gravel coarse	PID = 0	
						PID = 0	
						PID = 0	
					8.5 397.1	PID = 0	
			SM		(SM) Brownish gray to grayish brown, moist to wet, SAND, little silt, trace gravel, sand fine to medium, gravel fine	PID = 0	
10	MC 3				PFOS Groundwater - 329 ppt	PID = 0	4 inch steel casing set in grout
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
					12.5 393.1	PID = 0	
			SM		(SM) Gray, wet, SAND, little silt, trace gravel, sand fine to medium, gravel fine	PID = 0	
						PID = 0	
						PID = 0	
15	MC 4					PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
					16.5 389.1	PID = 0	
			SM		(SM) Gray, moist, SAND, little silt, few to little gravel, trace cobbles, sand fine to medium, gravel fine to coarse	PID = 0	
						PID = 0	
						PID = 0	
					Hard drilling starts	PID = 0	
						PID = 0	
						PID = 0	
20	MC					PID = 0	

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GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 02/12/21 14:35 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\WESTC028\WESTC028 MONITORING WELLS.GPJ

First Environment, Inc.
10 Park Place, Bldg 1, Suite 504
Butler, NJ 07405
Telephone: 973-334-0003

WELL NUMBER MW-60

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
20	5		SM		(SM) Gray, moist, SAND, little silt, few to little gravel, trace cobbles, sand fine to medium, gravel fine to coarse *(continued)*	PID = 0	
	MC 6				22.0 383.6 Hard schistose boulder	PID = 0	
					23.5 382.1 No Core	PID = 0	
25	MC 7		SM		25.0 380.6 (SM) Gray, moist, SAND, little silt, little gravel, trace cobbles, sand fine to coarse, gravel fine to medium - TILL	PID = 0	
30	MC 8				30.0 375.6 Brown to gray, moist, heavily to completely weathered schistose BEDROCK, not competent	PID = 0	4 inch steel casing set in grout
35	MC 9				Stronger with depth	PID = 0	
	MC 10				37.0 368.6 Black, gray and white, highly weathered schistose BEDROCK, easily broken by hand, friable, not competent	PID = 0	
40	MC 11				41.5 364.1 Gray, medium weathered schistose BEDROCK - Stronger than above	PID = 0	

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WELL NUMBER MW-60

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
	MC 12				Gray, medium weathered schistose BEDROCK - Stronger than above *(continued)*	PID = 0	
						PID = 0	
						PID = 0	
					44.8 360.9	PID = 0	
45	MC 13				Black, gray and white, slightly weathered, schistose BEDROCK - competent	PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	4 inch steel casing set in grout
50	MC 14					PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
						PID = 0	
55					55.0 350.6	PID = 0	
					Dark gray, dry, schistose BEDROCK - competent		
						PID = 0	
					57.0 348.6		
					Dark gray to black, schistose BEDROCK - competent		
60						PID = 0	4 inch open borehole
						PID = 0	
65							

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WELL NUMBER MW-60

CLIENT Westchester County Airport **PROJECT NAME** Westchester County Airport Site Characterization

PROJECT NUMBER WESTC028 **PROJECT LOCATION** Westchester, NY

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
70					Dark gray to black, schistose BEDROCK - competent *(continued)*	PID = 0	4 inch open borehole
75					Water at 74' - 1/3 gallon per minute	PID = 0	
					77.0 328.6		

Bottom of borehole at 77.0 feet.

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WELL NUMBER MW-64

CLIENT Westchester County Airport
PROJECT NAME Westchester County Airport Site Characterization
PROJECT NUMBER WESTC028
PROJECT LOCATION Westchester, NY
DATE STARTED 05/08/20 **COMPLETED** 05/11/20
GROUND ELEVATION 415.09 ft NAD83 **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Summit Drilling
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger
AT TIME OF DRILLING 4.00 ft / Elev 411.09 ft
LOGGED BY DHFL **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING 3.68 ft / Elev 411.41 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0						Casing Type: 2 inch PVC
				0.5 Asphalt - 6 inches 414.6	PID = 0	Flushmount Cap
		GP-GM		1.0 (GP-GM) Road Base - 6 inches 414.1	PID = 0	
		GM		(GM) Gray, moist, GRAVEL, little sand, little silt	PID = 0	Solid Schd 40 PVC riser, bentonite seal
				3.0 412.1		
				(SM) Dark brown to gray, SAND, little silt, few gravel Wet at 4' PFOS Groundwater - 11,600 ppt	PID = 0	Solid Schd 40 PVC riser, sand pack
5		SM			PID = 0	
				8.5 406.6	PID = 0	
				(SM) Gray, wet SAND, little silt, little gravel, trace cobbles		
10					PID = 0	Machine Slotted Schd 40 PVC, sand pack
		SM			PID = 0	
15					PID = 0	Backfilled with sloughed material
				16.0 399.1		

Bottom of borehole at 16.0 feet.

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