REMEDIAL INVESTIGATION/ FEASIBILITY STUDY WORK PLAN

PREPARED FOR

EAST HAMPTON AIRPORT SITE

200 DANIELS HOLE ROAD WAINSCOTT, NEW YORK 11975

NYSDEC SITE No. 152250

PREPARED FOR NYSDEC APPROVAL

ΒY



640 JOHNSON AVENUE, SUITE 101 BOHEMIA, NY 11716

MAY 2021

REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN

Prepared for

Facility:East Hampton Airport SiteWainscott, Suffolk County, New York 11975

FPM File No: 1028g-20-40 (02)

I, Stephanie O. Davis, PG, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation/Feasibility Study Work Plan was prepared in accordance with all applicable statues and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Stephanie O. Davis, PG

Name

Prepared by

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Signature

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В	Project Personnel Resumes, Laboratory Information
С	Health and Safety Plan, Including Community Air Monitoring Plan



LIST OF ACRONYMS

Acronym	Definition
AFFF	Aqueous film-forming foam
ARFF	Aircraft Rescue and Firefighting Facility
ASP	Analytical Services Protocol
CAMP	Community Air Monitoring Program
COC	Chain-of-custody
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
dB	Decibel
DQOs	Data quality objectives
DUSR	Data Usability Summary Report
EDDs	Electronic data deliverables
EHFD	East Hampton Fire Department
EHTP	East Hampton Town Police
ELAP	Environmental Laboratory Approval Program
FPM	FPM Group, Ltd.
FS	Feasibility Study
GPS	Global positioning system
HAL	Health Advisory Level
HASP	Health and Safety Plan
HDPE	High density polyethylene
HSO	Health and Safety Officer
LIRR	Long Island Rail Road
MCL	Maximum contaminant level
MS/MSD	Matrix spike/matrix spike duplicate
MSL	Mean sea level
NAPL	Non-aqueous-phase liquid
ng/g	Nanograms per gram
ng/L	Nanograms per liter
NTU	Nephelometric turbidity unit
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
ORP	Oxidation reduction potential
PCB	Polychlorinated biphenyl
PE	Professional Engineer



Acronym	Definition
PFAS	Per- and polyfluoroalkyl substances
PFHxS	Perfluorohexane sulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid
PG	Professional geologist
PID	Photoionization detector
ppb	Parts per billion
PPE	Personal protective equipment
ppt	Parts per trillion
PVC	Polyvinyl chloride
QAO	Quality Assurance Officer
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QEP	Qualified environmental professional
RAOs	Remedial Action Objectives
RI	Remedial Investigation
SC	Site Characterization
SCDHS	Suffolk County Department of Health Services
SCGs	Standards, criteria and guidance
SCOs	Soil Cleanup Objectives
SIM	Selective ion monitoring
SPLP	Synthetic Precipitation Leaching Procedure
SOP	Standard Operating Procedure
Standards	Part 703.5 Class GA Ambient Water Quality Standards
SVOCs	Semivolatile organic compounds
TAL	Target Analyte List
TCL	Target Compound List
TIC	Tentatively-identified compound
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
VOCs	Volatile organic compounds
WSG	Wainscott Sand and Gravel

SECTION 1.0 INTRODUCTION AND PURPOSE

This Remedial Investigation/Feasibility Study (RI/FS) Work Plan has been prepared by FPM Group (FPM) for the New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Disposal (Superfund) Site #152250, identified as the East Hampton Airport Site, Wainscott, Suffolk County, New York (Site). This work plan describes the procedures to further evaluate the nature and extent of contamination associated with the Site. This work plan also includes procedures to perform an FS to evaluate potential appropriate remedial measures. This work plan has been developed in accordance with the procedures outlined in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010).

1.1 Site Location and Description

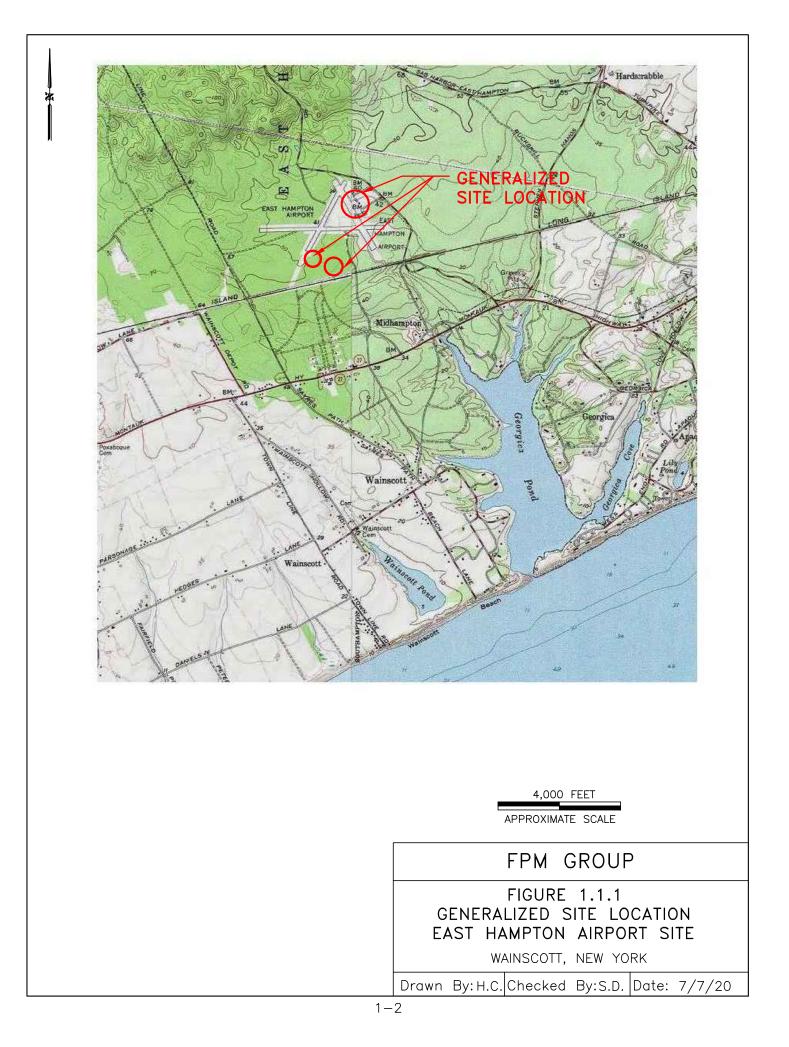
The East Hampton Airport Site occupies approximately 47.454 acres of property and includes the northeastern portion of the East Hampton Airport at 200 Daniels Hole Road, the fire training facility at 65 Industrial Road, and the East Hampton Fire Department at 72 Industrial Road in Wainscott. The Site is owned by the Town of East Hampton (Town) and the parcels that comprise the Site are reported in the Order on Consent to be identified by the following Suffolk County Tax Map numbers:

- 181-200-6000
- 180-100-8013, sublot 13
- 181-200-1000
- 181-200-3000
- 181-300-1001, sublot 1
- 181-100-0042, sublot 2
- 181-300-3000
- 181-300-2000
- 181-200-4000
- 181-200-2000
- 181-200-5000
- 192-300-42001, sublot 1
- 192-300-3700

The general location of the Site is presented in Figure 1.1.1. A plan of the Site and its vicinity is included as Figure 1.1.2. The Site is located approximately 3.4 miles west of the Village of East Hampton. The Site is located in a CI commercial/industrial zone and is surrounded by commercial and industrial uses and open undeveloped land. Long Island Rail Road (LIRR) tracks are present to the south of the Site. The nearest residential properties are located to the south of the LIRR tracks.

The airport is a public use facility with a parking lot, airport terminal, and support buildings. Various commercial and industrial businesses lease portions of the Site from the Town. Tenants at the Site include the East Hampton Fire District Training Facility and the East Hampton Fire Department (EHFD), which operates the Aircraft Rescue and Firefighting (ARFF) facility. Activities at the Site have included fire-fighting and fire-fighting training by the EHFD using Class B fire suppression foam (aqueous film-forming foam, or AFFF), which typically contains per-and/or polyfluoroalkyl substances (PFAS).







1.2 Site Environmental Setting

The surface topography of the Site and surrounding vicinity was obtained from the USGS Sag Harbor and East Hampton, New York Quadrangles (2019), portions of which are shown in Figure 1.1.1. The topographic elevation of the Site vicinity generally ranges from 30 to 50 feet above mean sea level (MSL) and the ground surface slopes gently to the southeast and south. The Site surface includes several buildings and large expanses of paved surfaces, with the remaining areas characterized by open grassy fields and wooded areas.

Previous subsurface investigations (discussed in Section 2.0) document that portions of the Site surface are immediately underlain by topsoil and/or gravel. Beneath the topsoil and/or gravel, the Site is underlain by sand and gravel glacial outwash deposits of the Pleistocene Upper Glacial Formation to the maximum depth penetrated (45 feet). Intermittent non-continuous silt and clay lenses were encountered at some locations within the outwash deposits. The Upper Glacial Formation extends to a depth of between 200 and 250 feet below the Site surface (USGS, 1982), below which the Cretaceous Magothy Formation is present. The Magothy Formation consists primarily of sand with interbeds of silt and clay. The Upper Glacial Formation and the Magothy Formation both contain fresh groundwater that is used as a source of water supply.

The depth to groundwater beneath the Site varies from approximately 15 feet below grade in the northern portions of the Site to approximately 30 feet below grade in the portions of the Site along Industrial Road. The regional groundwater flow direction in the Upper Glacial Aquifer in the Site vicinity (USGS, 2015) is generally southerly. The Site-specific groundwater flow direction determined during the Site Characterization (AECOM, 2018 and 2020) was to the southeast at a gradient of 4 x 10⁻⁴ feet per foot. Further to the south the groundwater flow direction is expected to be more variable due to the presence of surface water bodies to which groundwater is understood to discharge.

There are no surface water bodies on or adjoining the Site. The closest surface water bodies are Georgica Pond (about 3,500 feet southeast) and Wainscott Pond (about 8,000 feet south). The Atlantic Ocean is present to the southeast of both of these ponds and is approximately 11,000 feet southeast of the Site. The ponds are separated from the Site by the LIRR tracks, commercial and industrial uses along Industrial Road and Montauk Highway, and residential areas.

1.3 Site History

Based on available historic records and historic aerial photographs (Historic Aerials website, Suffolk County Tax Map Viewer, and Stony Brook University digital archives), the airport runways (portions of which are on the Site) were constructed by July 1938 and a small building was present near the east end of the eastern-most section of runway at that time. No other significant development was apparent on the airport or its vicinity and Industrial Road had not yet been opened. By 1954 another building was present near the intersection of the two most eastern airport runways, but no other significant development was apparent on the airport or in its vicinity. By 1960 several additional buildings were present in the area to the north of the current airport terminal building and additional development continued in this area from the 1960s onward.

Industrial Road was opened between 1962 and 1969, by which time at least two properties had been developed on this road. Additional development occurred on Industrial Road parcels in the 1970s through the present. Based on information from historic aerial photos, as supplemented by information obtained during August 25, 2020 interviews with EHFD Chief Gerard Turza, Jr.



and East Hampton Fire District Association Board President Dan Shields, the building that presently houses the East Hampton Fire Training Facility at 65 Industrial Road (part of the Site) was constructed between 1984 and 1994 and was originally used by Disney. The building was modified by the addition of bathrooms circa 2003 when this property was first used for fire training purposes. The ARFF facility at 72 Industrial Road (part of the Site) was reported to have been constructed in 2000, which is consistent with aerial photos that show the building to have been constructed between 1994 and 2001.

Activities at the Site have included fire-fighting and fire-fighting training by the EHFD since at least 1995, including storage and use of AFFF. These activities are reported for several areas of the Site and vicinity, as evaluated from information contained in the Site Characterization reports (AECOM, 2018 and 2020), NYSDEC records, Town records, and East Hampton Town Police (EHTP) records (copies included in Appendix A). The EHTP reported that it did not use or store AFFF at its facilities. The Town has sought information concerning AFFF use and storage from the EHFD and Village of East Hampton for several months, but such records have not yet been provided. The EHTP records document at least 29 plane accidents at the airport between 1991 and 2020, several of which included responses by the EHFD. Some of these responses involved fuel releases and/or fires on which fire-fighting foam was reportedly used or may have been used. Information obtained from Chief Turza, Dan Shields, James Brundige (the current airport manager), and Lt. John Claflin of the EHTP, who was an assistant manager at the airport between 1995 and 2001, obtained during August 25, 2020 interviews and a site visit also informed the assessment of fire-fighting foam use at the Site and vicinity. The activities that involved firefighting foam or the possible use of foam at the Site and in its vicinity are summarized as follows and their approximate locations are indicated on Figure 1.3.1:

<u>North End of Hedges Lane:</u> Lt. Claflin reported a plane crash site that involved a fire in a wooded area near the north end of Hedges Lane, just to the southeast of the airport, in the 1990s. This area was observed and noted to be an area of young pine trees that is surrounded by more mature trees, consistent with a prior fire. It is possible that AFFF was used at this location.

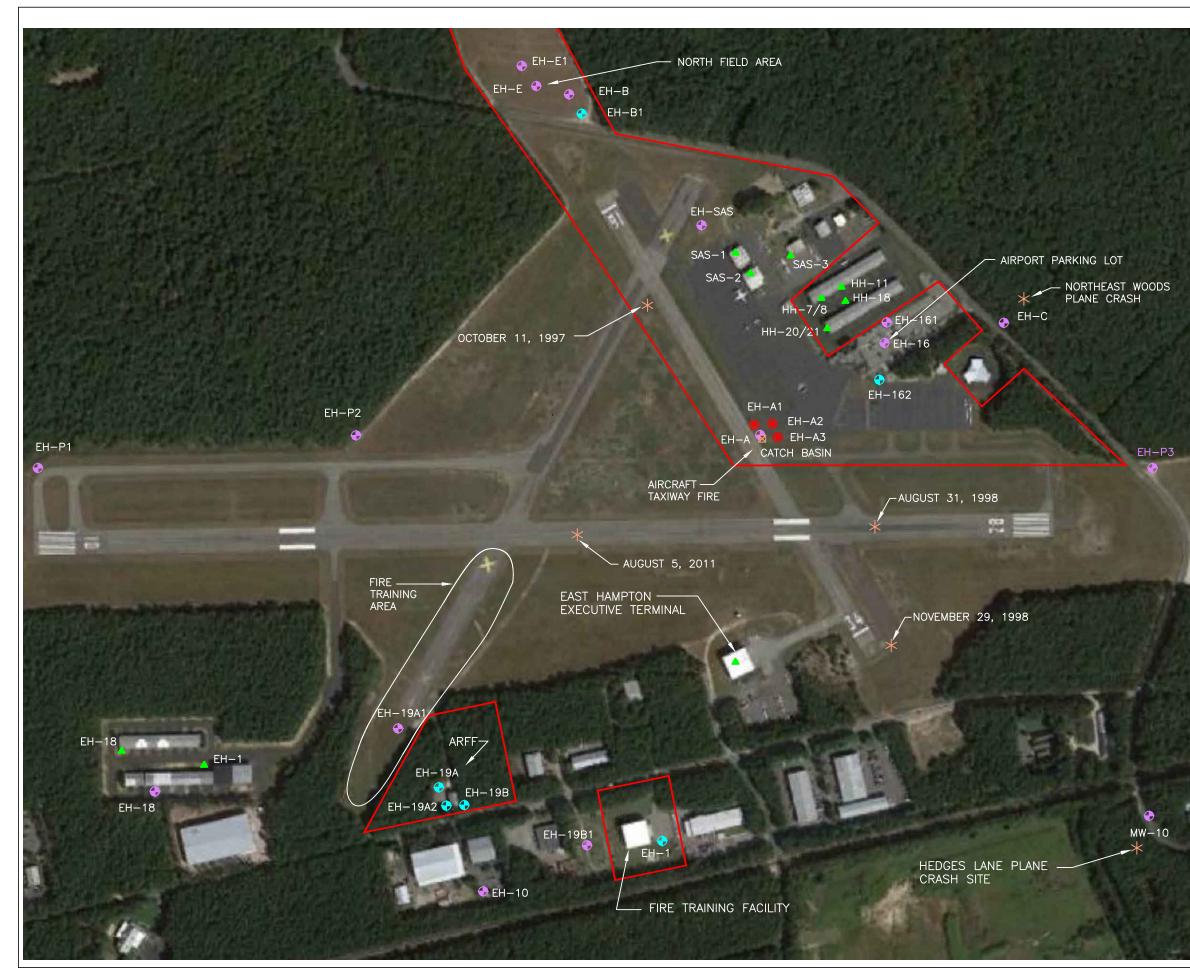
<u>North Field Area</u>: A plane crash-landed in the area to the north of Daniels Hole Road and the northern-most runway in 1995. The EHFD is reported to have used AFFF at the crash site. A mass casualty drill was also held in this area by the EHFD on June 1, 2008. This drill reportedly included spray application of AFFF onto a bus in an unpaved area.

<u>Airport Parking Lot</u>: The EHFD conducted a mass casualty drill in 1997 in a field to the northeast of the current terminal building that is now a paved parking lot. The EHFD is reported to have sprayed fire-fighting foam to a bus in an unpaved area.

<u>October 11, 1997 Plane Crash</u>: EHTP records include documentation of a plane crash on this date when a plane skidded off a runway. The EHFD was noted to have been at the scene and boosted up the plane and sprayed foam underneath the aircraft for fire prevention. This crash was reported to have been located near where Runway 16 and former Runway 22 intersection.

<u>August 31, 1998 Plane Crash:</u> The EHTP records include documentation of a plane crash on this date that involved a plane that landed on the "main" runway without having landing gear down. This crash was reported near the east end of Runway 10, just to the east of Runway 16/34. The EHFD was on the scene for a gas leak and possible fire. Fire-fighting foam may have been used in the EHFD response to this plane crash.







•	PERMANENT WELL
•	MONITORING WELL/PIEZOMETER
۲	SOIL BORING
	CATCH BASIN
	TAP LOCATION
	SITE BOUNDARY
*	PLANE CRASH SITE



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FIGURE 1.3.1 SUSPECTED PFAS LOCATIONS EAST HAMPTON AIRPORT SITE

WAINSCOTT, NEW YORK

Drawn By: H.C. Checked By: S.D. Date: 10/27/20

<u>November 27, 1998 Plane Crash</u>: The EHTP records include documentation of a plane crash on this date that involved a plane that skidded off Runway 22 during a landing when the landing gear collapsed; the specific location of this crash was not reported, but may be in proximity to the Fire Training Area noted on Figure 3.1.1. The EHFD responded to the scene for "washdown". The "washdown" materials was not specified, but may have included firefighting foam.

November 29, 1998 Fuel Spill: The NYSDEC's records of spill #98-10855 document that a plane crashed off the end of a runway on November 29,1998 resulting in a spill of aviation gasoline onto an unpaved surface. This incident is also documented in the EHTP records. The NYSDEC onsite observer reported that the fire department had foamed the area to suppress vapors, which is consistent with the EHTP records. A photograph confirms the use of foam. The spill/foam location was reported to be "275 feet north and 77 feet west of the fence in the southeast corner" and the foam was reported to have surrounded the spill. This information, together with a photograph included in the spill report, indicates that the spill/foam location was off the south end of Runway 16. An estimated 8 to 10 cubic yards of soil were excavated to a depth of about 6 feet for offsite disposal. No confirmatory sampling is reported.

<u>Aircraft Taxiway</u>: A fuel truck fire occurred in the summer of 2006 on the paved taxiway in front of the current terminal building. The EHFD truck that is used to store AFFF was present onsite, although the EHFD reported that AFFF was not used to extinguish the fire. A storm drain receives runoff from this area.

<u>August 5, 2011 Plane Crash:</u> The EHTP records include documentation of a plane crash on this date that involved a plane that collided with deer on the runway during a landing. The EHFD responded to the scene due to a fuel leak. Fire-fighting foam may have been used in the EHFD response to this plane crash.

<u>Northeast Woods Plane Crash Site</u>: EHTP records document that on August 26, 2012 a plane had taken off from Runway 10, encountered mechanical problems, turned left, and then crashed in a wooded area approximately 300 feet east of the airport. The plane ignited and was engulfed in flames; the EHFD used fire-fighting foam to extinguish the fire. A photo from near the crash scene appears to show residual foam on Daniels Hole Road in this area.

<u>ARFF (EHFD Airport Substation)</u>: This facility is located at 72 Industrial Road and has reportedly been leased by the EHFD from the Town since construction of the two-bay garage building in 2000. An Oshkosh T1500 fire truck containing AFFF is stored onsite within the building and was reportedly purchased near the end of the 1990s. This truck is used to fight fires on the airport, which is accessed by a concrete ramp and paved road to the north of the garage or via an unpaved area and the paved Industrial Road located to the west and south of the garage building, respectively. The truck is also used to fight offsite fires involving fuel releases, including a plane crash that occurred in a Village of East Hampton residential area on October 23, 2005 (Bureau of Aircraft Accidents Archives), and for display purposes in parades.

AFFF was not observed to be presently stored onsite in portable containers; however, in a January 2017 Class B Fire Suppression Foam Usage Survey for the NYSDEC that was completed by the then EHFD First Assistant Chief Engineer Turza (copy in Appendix A), it was reported that in addition to storing AFFF, the EHFD used up to 100 gallons of AFFF for training purposes at this facility between 1 and 10 times over a 10-year period. Lt. Claflin of the EHPD reported that a foam bank consisting of containers of AFFF was maintained onsite starting when the building was constructed. Former onsite storage of AFFF is reported to have been in 55-gallon drums



and 5-gallon pails in an indoor rack area on a concrete floor that is coated. Transfer of AFFF from the containers to the truck was reported to have been accomplished using a transfer pump from the drums and manual transfer from the pails. Transfer into the truck's ARFF tank was reported to have occurred via the tank hatch at the top of the truck while the truck was in the building. This tank was noted to be full of AFFF during the August 25, 2020 site visit. Chief Turza did not recall what happened with the empty portable containers (drums and pails) that formerly contained ARFF.

AFFF was also reported to have been used for fire-fighting/emergency response purposes between 1 and 10 times over a 10-year period, and was reported to have been used offsite in 2006 and 2015. These uses appeared to be located at a distance from the airport. The offsite use locations were not specified, and Chief Turza did not recall the 2015 use during the August 25, 2020 interview. Chief Turza did report that fire training exercises have been held in an area to the north-northeast of the ARFF around the southwest portion of former Runway 22; these exercises have reportedly occurred 3 or 4 times per year since at least 2006 (reportedly the beginning of his experience at the ARFF) and included truck operations and water practice. Lt. Claflin also reported fire training exercises in this area during his time of employment at the airport.

Multiple stains were observed on the garage floor beneath the truck containing AFFF and were reported to have resulted from leaks of several types of truck fluids. Several of the stains extended from the interior of the garage towards the concrete ramp to the north of the garage bays. This ramp appears to be generally pitched to the north in the direction of a stormwater leaching pool located at the northwest corner of the ramp. A small kitchen and a bathroom are present in the garage building and discharges are directed to an onsite sanitary waste disposal system located to the west of the garage. A utility room with a slop sink is also present in the garage and slop sink discharges also appear to be directed to the sanitary system. Based on the configuration of lids, this system appears to include a septic tank and one leaching pool. Chief Turza reported that this system has not been serviced during his tenure at the ARFF, which began in 2006.

<u>East Hampton Fire District Training Facility</u>: This facility is located at 65 Industrial Road and was formerly used by Disney for unspecified purposes prior to its use as a fire training facility. This property includes one warehouse-style building that has two floor drains. Mr. Shields, who has knowledge of this property since 2003, reported that fire and rescue exercises are conducted inside the building, but do not involve the use of fire-fighting fluids (water or foam) and he is not aware of any storage or use of AFFF in the building. Rosko Smoke Simulation Fluid is used in this building to generate "smoke" for training purposes; a Safety Data Sheet (SDS) for this fluid notes that it contains glycols. The bathrooms in the building discharge to an onsite sanitary waste disposal system located to the north of the building. No slop sink was observed within the building. A concrete ramp area is present adjoining the east side of this structure and is pitched to direct stormwater and any other runoff to two leaching pools present beneath the ramp.

This facility also includes an outdoor training area with a fire training (burn) pad with a propane fuel source and a "roof" structure that is used for non-burn training. Mr. Shields reports that vehicle fire and rescue training are conducted on the burn pad; this activity is supported by historic articles and photographs available online. The concrete burn pad was constructed between September 2013 and June 2014 and appears to have been used for multiple training exercises involving vehicles, as noted on historic aerial photos. An extension of the pad was noted to be under construction in June 2018 and the shed housing the propane-fired burning equipment was in place by September 2019. Prior to the construction of the burn pad, it appears that fire training



exercises were conducted directly on the ground in this area of the property, as evidenced by vehicles and indications of disturbed ground noted on several historic aerial photos extending back to at least September 2006. An April 2001 aerial photo shows that the area around the building remained wooded at that time, indicating that outdoor fire training activities had not yet commenced.

The outdoor areas of this portion of the Site are fenced on the east, south, and west sides; these fences are reported to have been in place since at least 2003, which is consistent with the aerial photo information. The eastern fence separates this area of the Site from the adjoining EHTP facility. The southern and western fences separate this area of the Site from the adjoining EHTP impound yard and an access road.

Several areas of the Site were investigated during the Site Characterization (SC) investigation conducted by the NYSDEC. Additional areas were also evaluated during this investigation as follows:

<u>Local Television, Inc.</u>: This facility, which is downgradient of the ARFF, was investigated due to its proximity to the ARFF and the potential for runoff from the ARFF to have impacted groundwater.

<u>East End Hangers</u>: These hangers are located to the southwest of the airport runway area and were investigated to evaluate if impacts from AFFF were present. No significant PFAS impacts were identified.

<u>Water Supply Wells</u>: Drinking water supply wells that service leased hanger spaces at the airport were sampled.

SC and other investigations performed at the Site and in its vicinity between 2017 and 2019 are discussed in detail in Section 2.0. Based on the SC results, the NYSDEC determined that the Site presents a significant threat to public health and/or the environment. The Site was added to the Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site in 2019.

The scope of the RI described herein is intended to provide additional information to define the nature and extent of contamination present in soil, groundwater, and other parts of the environment that may be affected. The RI is also intended to identify the source(s) of the contamination, to assess the impact of the contamination on public health and the environment, and to provide information to support development of a proposed remedy to address the contamination.

1.4 Property Usage Immediately Adjacent to Site

The portion of the Site that is on the airport property is bounded to the east and northeast by Daniels Hole Road, beyond which undeveloped wooded areas are present, as shown on Figure 1.1.2. The northern-most area of this portion of the Site is just to the north of Daniels Hole Road; this area of the Site is bounded by undeveloped wooded areas. The western and southern areas of this portion of the Site are bounded by an undeveloped wooded area and airport property characterized by open grassy fields and paved runways and taxiways.

The portion of the Site that is located at 65 Industrial Road (Fire Training Facility) is bounded to the north by Industrial Road, beyond which are developed commercial/industrial properties (GT



Power Systems) and the airport property. The western side of this portion of the Site is bounded by an unpaved lot that is used by the EHPD for impounded vehicle parking, beyond which is the Living Water Full Gospel Church. The southern side of this portion of the Site is bounded by an access road to the impound yard, followed by LIRR tracks, beyond which is an undeveloped wooded property. The eastern side of this portion of the Site is bounded by an area of the same lot that is developed with a commercial/industrial building and paved areas used by the EHPD.

The portion of the Site that is located at 72 Industrial Road (ARFF) is bounded to the north and west by wooded areas, open grassy fields and a paved runway associated with the airport property. The southern side of this portion of the Site is bounded by Industrial Road, beyond which commercial/industrial properties are present, including Twin Forks Moving & Storage, LTV Studios, and Living Water Full Gospel Church. The eastern side of this portion of the Site is bounded by a commercial/industrial property (Ron Sullivan Welding & Steel Yard) and an undeveloped wooded property. Additional commercial/industrial businesses are present further to the east.



SECTION 2.0 SUMMARY OF PREVIOUS INVESTIGATIONS

An investigation for PFAS in water supply wells and vertical profile sampling locations south of the Site was conducted by the Suffolk County Department of Health Services (SCDHS) in 2017 and 2018 and identified detectable levels of PFAS in several areas. These detections included perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA), the results of which were compared to the US Environmental Protection Agency (USEPA) health advisory level (HAL) of 70 parts per trillion (ppt). We note that current NYSDEC guidance for PFAS sampling and analysis includes more stringent guidelines for PFAS compounds in groundwater and New York State has established Maximum Contaminant Levels (MCLs) of 10 ppt for PFOA and PFOS. The highest concentrations of PFOA and PFOS during the SCDHS sampling were noted to the south of the Site. Point-of-entry water treatment systems were installed at the affected properties with water supply wells and the public water supply network was extended to the affected area. Additional information concerning this investigation is provided in Section 2.1 below.

An SC investigation was conducted by the NYSDEC (contractor: AECOM) in 2018, with additional sampling conducted in 2019 (Addendum) to determine if there was a significant threat to public health and/or the environment. The SC investigations included testing of soil, groundwater and drinking water at the Site and immediate vicinity. The results indicated the presence of PFAS compounds in soil and groundwater at the Site. The SC and SC Addendum reports (AECOM, 2018 and 2020) noted that PFOA and/or PFOS were detected in Site groundwater at concentrations above the EPA HAL at locations where fire-fighting foam training and crash responses occurred, where AFFF was used in a mass casualty training exercise, and AFFF and fire trucks are stored, and adjacent to a burn training structure. In each of these places the EHFD used of stored fire-fighting foam. Additional information concerning the SC investigation is provided in Section 2.2 below.

An SC investigation was conducted by the NYSDEC (contractor: HDR) in 2020 for the Wainscott Sand and Gravel (WSG) Site (Site #152254), which was identified as a "P" or potential Inactive Hazardous Waste Disposal site and is located just to the southeast of the East Hampton Airport Site. The SC investigation included testing of soil and groundwater at the WSG Site and the results indicated the presence of PFAS compounds in soil and groundwater at the Site. Additional information concerning this SC investigation is provided in Section 2.3 below.

Environmental data from the Site and vicinity are evaluated relative to applicable New York State standards, criteria, and guidance (SCGs). The applicable SCGs for soil, groundwater, and soil vapor for most analytes include the 6 CRR-NY Part 375-6 soil cleanup objectives (SCOs) for soil, the 6 CRR-NY Part 703.5 Class GA Ambient Water Quality Standards (Standards) for groundwater, and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, and May 2017 updated matrices). For the PFAS compounds PFOA and PFOS in drinking water, the USEPA HAL of 70 ppt for either compound and their sum is applicable. For PFAS in groundwater and/or soil, guidance in the NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs (October 2020) is applicable.

A preliminary Conceptual Site Model (CSM) is presented at the end of this section. The CSM summarizes the general understanding of the Site based on the existing data and identifies areas for which further investigation is needed.



2.1 SCDHS Sampling

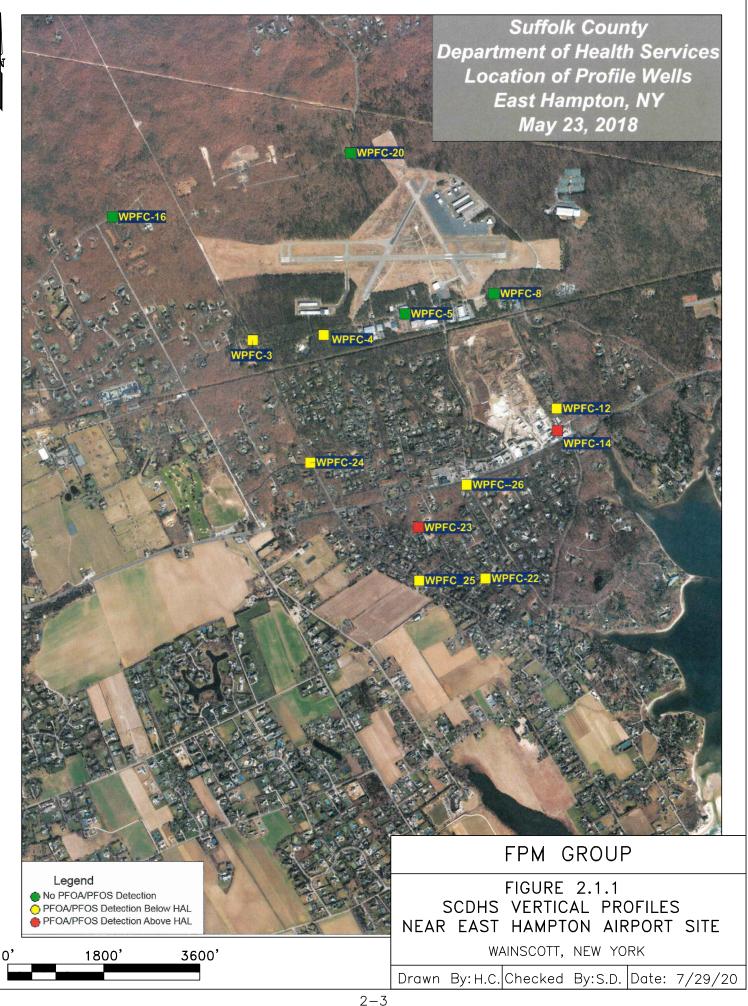
In June 2017, in response to information concerning use of AFFF on the East Hampton Airport property, the NYSDOH requested that the SCDHS sample public water supply wells in the vicinity of the airport for PFAS compounds. The SCDHS was reported to have collected and tested 13 samples from non-community public water supply wells in July 2017. The NYSDEC reviewed these results and requested that the SCDHS sample additional wells downgradient of the Site.

The SCDHS conducted private water supply well sampling in 2017 and 2018 in a phased approach, with the sampling area generally encompassed by Daniels Hole Road on the east, Georgica Pond and the Atlantic Ocean on the south, Wainscott Pond, Wainscott Hollow Road, Townline Road, and Wainscott Harbor Road on the west, and Merchants Path and the airport property on the north. As of October 19, 2018, 498 private water supply wells were reported to have been sampled, with 17 wells noted to contain PFOS and/or PFOA above the HAL and an additional 217 wells with PFOA and/or PFOS detections below the HAL. The remaining 264 wells were not reported to exhibit PFOA or PFOS detections. The available information shows that the PFOS and PFOA detections were noted in the area generally bounded by Daniels Hole Road, Wainscott Stone Road, Savres Path and Townline Road, and the LIRR tracks. The more elevated concentrations were noted near and downgradient of the intersection of Old Montauk Highway and Hedges Road, near the intersection of Sandown Court and Wainscott Northwest Road, in an area to the southwest of Daniels Hole Road, in the area of Westwood Road and Whitney Lane, and near the north end of Gate Road. We note that the private water supply well locations on each property were not specified, nor were the depths and intervals of each well screen reported; further subsurface investigation is required in these areas for determine the full nature and extent of contamination. We also note that private water supply well screen intervals and depths can be variable, depending on the age of the well, whether it was installed in accordance with current regulatory criteria, and other factors, and are unlikely to be known by homeowners. Finally, the reported data include results for only PFOA and PFOS; data were not provided for other PFAS compounds. Therefore, although the private water supply well data are useful as an indicator of the potential extent of PFAS impacts in groundwater in the area generally to the south of the Site, additional information is needed to evaluate the distribution of PFAS impacts in groundwater and the potential source(s) of the identified impacts.

The SCDHS conducted vertical profile groundwater sampling between February and April 2018. Each profile included at least four samples collected at 10-foot intervals, with the deepest samples generally collected from up to 80 feet below grade. The profile locations are shown in Figure 2.1.1 and most are generally to the south (downgradient) of the Site, although several are located in crossgradient or upgradient positions or in proximity to the Site. The results, which included data for multiple PFAS compounds, are included in the SC Report, which is included in Appendix A to this work plan, and were compared in the report to the EPA's HAL of 70 ppt for PFOA and PFOS, as generally shown on Figure 2.1.1.

Low levels of one PFAS compound (perfluorohexane sulfonic acid, or PFHxS) were found in the two shallowest intervals of the profile located upgradient of the North Field Area of the Site (WPFC-20); no other PFAS compounds were detected at this upgradient location. No PFAS compounds were detected in the other profile upgradient of the study area (WPFC-16, upgradient/crossgradient of the Site). PFAS compounds were detected at all other sampled locations, typically at multiple depths in the Upper Glacial Aquifer. PFOA and/or PFOS was detected in two vertical profiles located crossgradient of the Site (WPFC-3 and WPFC-4) at levels





below the HAL; several other PFAS compounds were detected at these locations, including PFHxS at levels above current NYSDEC guidance in two deeper intervals of WPFC-4. PFOS and/or PFOA were generally detected in the profiles located downgradient of the Site, with levels above the HAL in two profiles: WPFC-23 near the intersection of Old Montauk Highway and Hedges Road and WPFC-14 near Roxbury Lane. These profiles are both in areas where more elevated PFOA and/or PFOS concentrations were noted in the private water supply well sampling. PFAS compounds were detected in several profiles to the maximum depth penetrated, suggesting vertical PFAS migration in the Upper Glacial Aquifer. These data are useful for evaluating the vertical distribution of PFAS impacts in the aquifer and the types of PFAS compounds present. However, the profile locations are widely-spaced and additional investigation is needed to evaluate the lateral distribution of PFAS impacts and the potential source(s) of the impacts.

2.2 Site Characterization Investigation

An SC investigation at the East Hampton Airport Site was conducted by the NYSDEC through its contractor AECOM in 2018, with additional sampling conducted in 2019 (Addendum) to determine if there was a significant threat to public health and/or the environment. The SC investigation included testing of soil, groundwater, and drinking water supply wells at the Site and immediate vicinity. The results indicated the presence of PFAS compounds in soil, groundwater, and drinking water supply wells at the Site. The SC results are summarized below.

2.2.1 Soil Sampling and Results

Soil sampling was conducted from soil borings and monitoring well/piezometer borings at 21 locations on the Site and in its vicinity during the SC. Two samples were collected at nearly all locations, generally from the shallow 0 to 1-foot interval and from a deeper interval; the deeper intervals ranged from 22 to 42 feet below grade and were generally just above or below the water table surface. No soil sampling was performed between the shallow and deep intervals except at EH-B, where an intermediate sample was collected from the 19 to 20-foot interval.

The samples were tested for PFAS compounds. Figure 2.2.1.1 (Figure 6 from the SC Report) shows the soil sampling locations and summarizes the results for PFOS and PFOA at each location. The full results are shown on Table 2.2.1.1; concentrations of PFOA and PFOS exceeding current NYSDEC Guidance Values for Unrestricted Use and/or for Protection of Groundwater are highlighted. We note that none of the detections exceed current NYSDEC Guidance Values for Commercial or Industrial Uses.

PFAS compounds were detected in nearly all of the soil samples collected, with only two locations (EH-SAS and EH-A2) showing no detections. In general, the deeper samples showed fewer PFAS compounds and the detections were generally lower than in the shallow interval at each location. This distribution suggests that PFAS releases were to the surface and PFAS compounds have migrated downward to the vicinity of the water table. The most elevated concentrations of PFOA and PFOS all occurred in the shallow interval, with the maximum PFOS detection (15 ng/g) noted in the duplicate of the 0 to 1-foot sample at the EH-1 location on the Fire Training Facility portion of the Site. The maximum PFOA detection (3.8 ng/g) was noted in the 0 to 1-foot sample from the EH-19B1 location in the parking lot immediately to the west of the Fire Training Facility portion of the Site. Detections exceeding the NYSDEC Guidance Value for Protection of Groundwater were noted at the EH-B location in the North Field Area (location of the 1995 plane crash and the 2008 mass casualty training event conducted by the EHFD), the



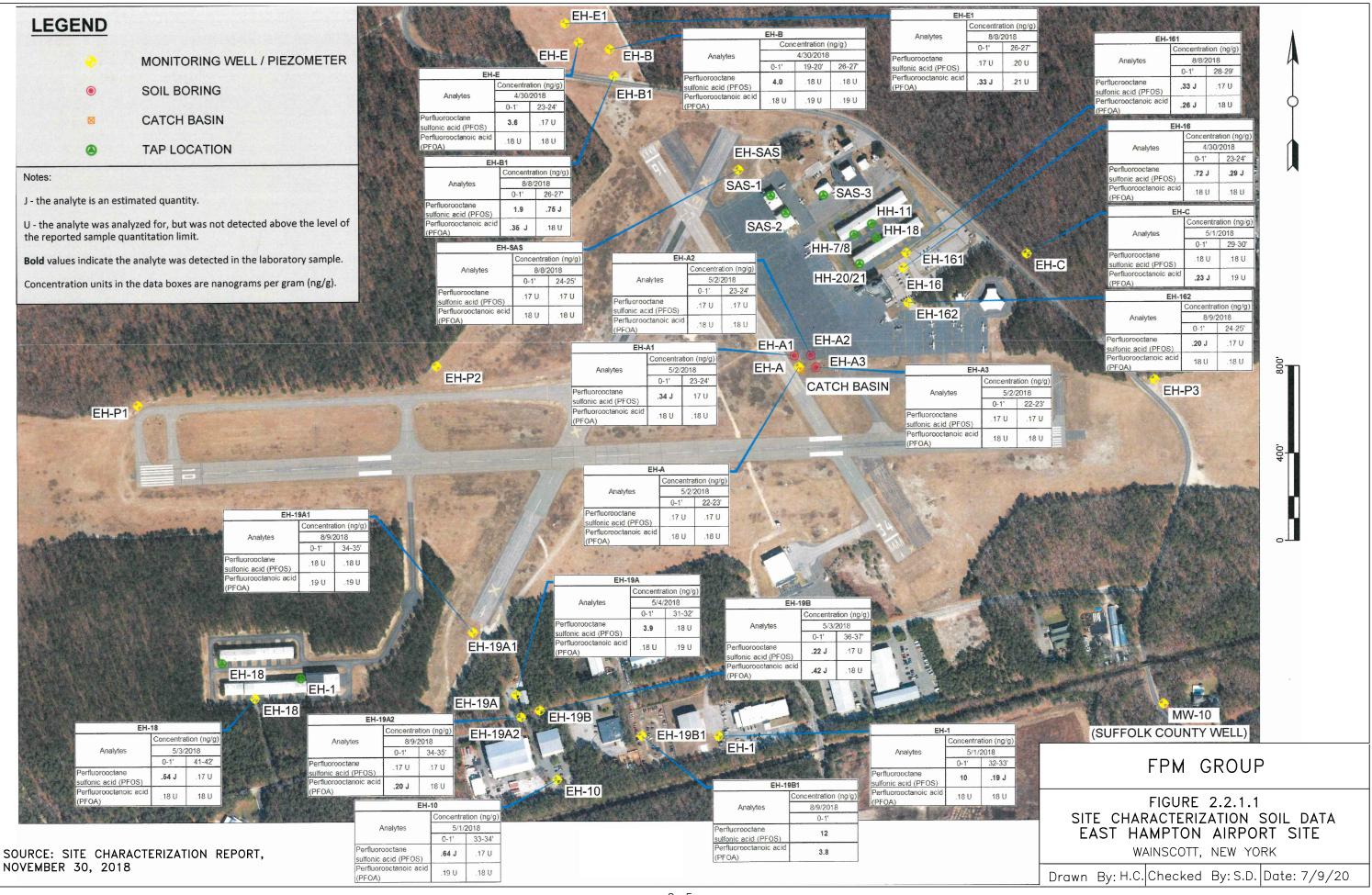


TABLE 2.2.1.1 SOIL CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area					North Field					Sound Aircra	aft Services		
	Boring ID	EH-B			EH-	EH-B1		EH-E		·E1	EH-SAS		NYSDEC Guidance Value for Unrestricted	NYSDEC Guidance Value
	Date		4/30/2018		8/8/2	8/8/2018		4/30/2018		2018	8/8/2018		Use	of Groundwater
Analytes	Sample Interval (fbg)	0-1	19-20	26-27	0-1	26-27	0-1	23-24	0-1	26-27	0-1	24-25		
Perfluorobutance sulfonic acid (0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.20 U	0.17 U	0.17 U	-	-
Perluorohexane sulfonic acid (P	FHxS)	0.53 J	0.22 J	0.29 J	0.27 U	0.21 U	0.25 J	0.20 J	0.27 U	0.28 U	0.18 U	0.17 U	-	-
Perfluoroheptane sulfonic acid (PFHpS)	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	0.14 U	0.14 U	0.16 U	0.14 U	0.14 U	-	-
Perfluorooctane sulfonic acid	(PFOS)	4.0	0.17 U	0.17 U	1.9	0.75 J	3.6	0.17 U	0.17 U	0.20 U	0.17 U	0.17 U	0.88	3.7
Perfluorodecane sulfonic acid (F	PFDS)	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.20 U	0.17 U	0.17 U	-	-
Perfluorobutanoic acid (PFBA)		0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.18 U	-	-
Perfluoropentanoic acid (PFPeA		0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.20 J	0.22 U	0.19 U	0.19 U	-	-
Perfluorohexanoic acid (PFHxA)		0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.21 U	0.34 J	0.24 U	0.21 U	0.21 U	-	-
Perfluoroheptanoic acid (PFHpA	()	0.28 J	0.26 J	0.32 J	0.23 U	0.22 U	0.27 J	0.22 J	0.22 U	0.26 U	0.22 U	0.22 U	-	-
Perfluorooctanoic acid (PFOA		0.18 U	0.18 U	0.18 U	0.35 J	0.18 U	0.18 U	0.18 U	0.33 J	0.21 U	0.18 U	0.18 U	0.66	1.1
Perfluorononanoic acid (PFNA)		0.32 U	0.25 U	0.27 U	0.32 J	0.18 U	0.48 U	0.24 U	0.18 U	0.21 U	0.18 U	0.18 U	-	-
Perfluorodecanoic acid (PFDA)		0.41 U	0.25 U	0.20 U	0.21 U	0.20 U	0.29 U	0.21 U	0.20 U	0.23 U	0.20 U	0.20 U	-	-
Perfluoroundecanoic acid (PFUr	nDA)	0.26 J	0.25 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.25 U	0.29 U	0.25 U	0.25 U	-	-
Perfluorododecanoic acid (PFD		0.26 U	0.26 U	0.26 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.30 U	0.26 U	0.26 U	-	-
Perfluorotridecanoic acid (PFTrl	DA)	0.24 J	0.21 J	0.15 U	0.16 U	0.15 U	0.19 J	0.15 U	0.15 U	0.18 U	0.15 U	0.15 U	-	-
Perfluorotetradecanoic acid (PF	TeDA)	0.38 U	0.38 U	0.38 U	0.39 U	0.38 U	0.38 U	0.38 U	0.38 U	0.44 U	0.38 U	0.38 U	-	-
Perflurooctane sulfonamide (FO	SA)	0.13 U	0.13 U	0.13 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U	0.15 U	0.13 U	0.13 U	-	-
N-Methyl perfluorooctane sulfon	amidoacetic acid	0.085 U	0.085 U	0.085 U	0.24 J	0.31 J	0.085 U	0.085 U	0.085 UJ	0.45 J	0.085 UJ	0.085 UJ	-	-
N-Ethyl perfluorooctane sulfonal		0.11 U	0.11 U	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U	0.11 U	1.3	0.11 U	0.11 U	-	-
6:2 Fluorotelomer sulfonic acid (0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.20 U	0.17 U	0.17 U	-	-
8:2 Fluorotelomer sulfonic acid ((8:2 FTS)	0.22 U	0.22 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.26 U	0.22 U	0.22 U	-	-

Notes:

Units are ng/g (nanogram/gram or ppb).

Detected concentrations are in **Bold font.**

Detections exceeding NYSDEC guidance for unrestricted use are highlighted in gray.

Detections exceeding NYSDEC guidance for protection of groundwater are highlighted in yellow.

fbg = feet below grade.

U -The analyte was analyzed for but was not detected above the level of the reported quantitation limit.

UJ -The analyte was analyzed for but was not detected. The reported quantitation limit is approximate.

J - Indicates an estimated value for the analyte.

TABLE 2.2.1.1 (Continued) SOIL CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area			Air	port Parking L	.ot			Northwes	st Woods		East Han	npton PD		NYSDEC	NYSDEC
	EH	-16	EH-161			EH-	162	EH-C		EH-1				Guidance Value for	Guidance Value for	
	Date	4/30/	2018		8/8/2018		8/9/2	8/9/2018		5/1/2018		5/1/2	2018		Unrestricted	Protection of
Analytes	Sample Interval (fbg)	0-1	23-24	0-1	0-1 Duplicate	28-29	0-1	24-25	0-1	29-30	0-1	0-1 Duplicate	32-33	32-33 Duplicate	Use	Groundwater
Perfluorobutance sulfonic acid		0.17 U	0.17 U	0.18 U	0.19 U	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
Perluorohexane sulfonic acid (F		0.17 U	0.17 U	0.20 U	0.30 U	0.17 U	0.17 U	0.17 U	0.18 U	0.19 J	0.17 U	0.17 U	0.20 J	0.37 J	-	-
Perfluoroheptane sulfonic acid	(PFHpS)	0.14 U	0.14 U	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	-
Perfluorooctane sulfonic acid	d (PFOS)	0.72 J	0.29 J	0.33 J	0.22 J	0.17 U	0.20 J	0.17 U	0.18 U	0.18 U	10	15	0.19 J	0.35 J	0.88	3.7
Perfluorodecane sulfonic acid (PFDS)	0.17 U	0.17 U	0.18 U	0.19 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
Perfluorobutanoic acid (PFBA)		0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	-	-
Perfluoropentanoic acid (PFPe	A)	0.19 U	0.19 U	0.21 U	0.21 U	0.19 U	0.19 U	0.19 U	0.48 J	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	-	-
Perfluorohexanoic acid (PFHxA		0.21 U	0.21 U	0.23 U	0.23 U	0.21 U	0.21 U	0.21 U	0.51 J	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	-	-
Perfluoroheptanoic acid (PFHp	A)	0.23 J	0.22 U	0.24 U	0.24 U	0.22 U	0.22 U	0.22 U	0.51 J	0.24 J	0.24 J	0.25 J	0.22 U	0.25 J	-	-
Perfluorooctanoic acid (PFO)	4)	0.18 U	0.18 U	0.26 J	0.38 J	0.18 U	0.18 U	0.18 U	0.23 J	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.66	1.1
Perfluorononanoic acid (PFNA)		0.24 U	0.19 U	0.19 U	0.2 U	0.18 U	0.18 U	0.18 U	0.32 U	0.26 U	0.18 U	0.47 U	0.18 U	0.24 U	-	-
Perfluorodecanoic acid (PFDA)		0.2 U	0.20 U	0.22 U	0.22 U	0.20 U	0.20 U	0.20 U	0.25 U	0.21 U	0.20 U	0.24 U	0.20 U	0.21 U	-	-
Perfluoroundecanoic acid (PFU		0.25 U	0.25 U	0.27 U	0.27 U	0.25 U	0.25 U	0.25 U	0.26 U	0.26 U	0.55 U	0.25 U	0.25 U	0.25 U	-	-
Perfluorododecanoic acid (PFD		0.26 U	0.26 U	0.28 U	0.28 U	0.26 U	0.26 U	0.26 U	0.27 U	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	-	-
Perfluorotridecanoic acid (PFTr		0.15 U	0.15 J	0.16 U	0.16 U	0.15 U	0.15 U	0.15 U	0.18 J	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	-	-
Perfluorotetradecanoic acid (PF		0.38 U	0.38 U	0.41 U	0.41 U	0.38 U	0.38 U	0.38 U	0.40 U	0.39 U	0.38 U	0.38 U	0.38 U	0.38 U	-	-
Perflurooctane sulfonamide (FC	- /	0.13 U	0.13 U	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-
N-Methyl perfluorooctane sulfor		0.085 U	0.085 U	0.09 UJ	0.33 J	0.085 UJ	0.41 J	0.085 UJ	0.088 U	0.087 U	0.085 U	0.085 U	0.085 U	0.085 U	-	-
N-Ethyl perfluorooctane sulfona		0.11 U	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.11 U	-	-
6:2 Fluorotelomer sulfonic acid		0.17 U	0.17 U	0.18 U	0.19 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
8:2 Fluorotelomer sulfonic acid	(8:2 FTS)	0.22 U	0.22 U	0.24 U	0.24 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	-	-

Notes:

Units are ng/g (nanogram/gram or ppb).

Detected concentrations are in Bold font.

Detections exceeding NYSDEC guidance for unrestricted use are highlighted in gray. Detections exceeding NYSDEC guidance for protection of groundwater are highlighted in yellow.

fbg = feet below grade.

U -The analyte was analyzed for but was not detected above the level of the reported quantitation limit.

UJ -The analyte was analyzed for but was not detected. The reported quantitation limit is approximate.

J - Indicates an estimated value for the analyte.

TABLE 2.2.1.1 (Continued) SOIL CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area	Local Tele	vision Inc			ļ	Aircraft/ Helico	pter Taxiway	1				
	EH-10		EH-	EH- A		EH- A1		A2	EH-A3			NYSDEC Guidance Value	
	Date	5/1/2018		5/2/2	018	5/2/2	5/2/2018		2018	5/2/2	2018	for Unrestricted Use	for Protection of Groundwater
Analytes	Sample Interval (fbg)	0-1	33-34	0-1	22-23	0-1	23-24	0-1	23-24	0-1	22-23		
Perfluorobutance sulfonic acid	1 (PFBS)	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ	0.17 U	0.17 U	0.17 U	0.17 U	-	-
Perluorohexane sulfonic acid	(PFHxS)	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
Perfluoroheptane sulfonic acid	d (PFHpS)	0.15 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	-
Perfluorooctane sulfonic ac	id (PFOS)	0.64 J	0.17 U	0.17 U	0.17 U	0.34 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.88	3.7
Perfluorodecane sulfonic acid	(PFDS)	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
Perfluorobutanoic acid (PFBA		0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	-	-
Perfluoropentanoic acid (PFP	eA)	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	-
Perfluorohexanoic acid (PFHx	(A)	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	-	-
Perfluoroheptanoic acid (PFH	pA)	0.23 U	0.22 U	0.22 U	0.22 U	0.25 J	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	-
Perfluorooctanoic acid (PFC	DA)	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.66	1.1
Perfluorononanoic acid (PFNA	A)	0.24 U	0.18 U	0.18 U	0.18 U	0.24 U	0.25 U	0.18 U	0.23 U	0.21 U	0.23 U	-	-
Perfluorodecanoic acid (PFDA	A)	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.25 U	0.25 U	-	-
Perfluoroundecanoic acid (PF	UnDA)	0.26 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-	-
Perfluorododecanoic acid (PF	DoDA)	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-	-
Perfluorotridecanoic acid (PF	TrDA)	0.16 U	0.15 U	0.19 J	0.20 J	0.16 J	0.17 J	0.15 U	0.15 U	0.15 U	0.17 J	-	-
Perfluorotetradecanoic acid (F	0.39 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	-	-	
Perflurooctane sulfonamide (FOSA)		0.14 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-
N-Methyl perfluorooctane sulf	0.086 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	-	-	
N-Ethyl perfluorooctane sulfor	0.12 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	-	-	
6:2 Fluorotelomer sulfonic aci	Fluorotelomer sulfonic acid (6:2 FTS)		0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-
8:2 Fluorotelomer sulfonic aci	d (8:2 FTS)	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	-

Notes:

Units are ng/g (nanogram/gram or ppb).

Detected concentrations are in Bold font.

Detections exceeding NYSDEC guidance for unrestricted use are highlighted in gray.

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J - Indicates an estimated value for the analyte.

TABLE 2.2.1.1 (Continued) SOIL CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area	East End	Hangars					ARFF						NYODEO
	Boring ID EH-18			EH-	19A	EH-1	EH-19A1		EH-19A2		19B	EH-19B1*		NYSDEC Guidance Value
	Date	5/3/2018		5/4/2018		8/9/2018		8/9/2018		5/3/2018		8/9/2018	for Unrestricted Use	for Protection of Groundwater
Analytes	Sample Interval (fbg)	0-1	41-42	0-1	31-32	0-1	34-35	0-1	34-35	0-1	36-37	0-1	030	or Groundwater
Perfluorobutance sulfonic acid	d (PFBS)	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U	-	-
Perluorohexane sulfonic acid	(PFHxS)	0.17 U	0.19 J	0.17 U	0.18 U	0.59 U	0.18 U	0.17 U	0.17 U	0.28 J	0.17 J	3.8	-	-
Perfluoroheptane sulfonic aci	d (PFHpS)	0.14 U	0.14 U	0.14 U	0.15 U	0.15 U	0.15 U	0.14 U	0.14 U	0.15 U	0.14 U	1.9	-	-
Perfluorooctane sulfonic ac	id (PFOS)	0.54 J	0.17 U	3.9	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.22 J	0.17 U	12	0.88	3.7
Perfluorodecane sulfonic acid	I (PFDS)	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U	-	-
Perfluorobutanoic acid (PFBA	N)	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	-	-
Perfluoropentanoic acid (PFP	eA)	0.19 U	0.19 U	0.19 U	0.20 U	0.20 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.48 J	-	-
Perfluorohexanoic acid (PFH)	(A)	0.21 U	0.21 U	0.21 U	0.22 U	0.23 J	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	0.75 J	-	-
Perfluoroheptanoic acid (PFH	lpA)	0.26 U	0.22 U	0.22 U	0.29 U	0.23 U	0.23 U	0.22 U	0.22 U	0.30 U	0.22 U	0.24 U	-	-
Perfluorooctanoic acid (PF	DA)	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.20 J	0.18 U	0.42 J	0.18 U	3.8	0.66	1.1
Perfluorononanoic acid (PFN	A)	0.29 U	0.25 U	0.49 U	0.22 U	0.19 U	0.19 U	0.18 U	0.18 U	0.25 U	0.18 U	0.49 J	-	-
Perfluorodecanoic acid (PFD)	A)	0.21 U	0.22 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.22 U	0.20 U	0.21 U	-	-
Perfluoroundecanoic acid (PF	UnDA)	0.25 U	0.25 U	0.25 U	0.26 U	0.26 U	0.26 U	0.25 U	0.25 U	0.26 U	0.25 U	0.27 U	-	-
Perfluorododecanoic acid (PF	DoDA)	0.26 U	0.26 U	0.26 U	0.27 U	0.27 U	0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.28 U	-	-
Perfluorotridecanoic acid (PF	TrDA)	0.16 J	0.15 U	0.15 U	0.16 U	0.16 U	0.16 U	0.15 U	0.15 U	0.16 J	0.20 J	0.16 U	-	-
Perfluorotetradecanoic acid (I	PFTeDA)	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U	0.39 U	0.38 U	0.38 U	0.39 U	0.38 U	0.40 U	-	-
Perflurooctane sulfonamide (I	FOSA)	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.14 U	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	-	-
N-Methyl perfluorooctane sulf	onamidoacetic acid	0.085 U	0.085 U	0.085 U	0.087 U	0.086 UJ	0.086 UJ	0.085 UJ	0.085 UJ	0.087 U	0.085 U	0.09 UJ	-	-
N-Ethyl perfluorooctane sulfo	namidoacetic acid	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	-	-
6:2 Fluorotelomer sulfonic ac	id (6:2 FTS)	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	-	-
8:2 Fluorotelomer sulfonic ac	id (8:2 FTS)	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.24 U	-	-

Notes:

Units are ng/g (nanogram/gram or ppb).

Detected concentrations are in Bold font.

Detections exceeding NYSDEC guidance for unrestricted use are highlighted in gray.

Detections exceeding NYSDEC guidance for protection of groundwater are highlighted in yellow.

fbg = feet below grade.

U -The analyte was analyzed for but was not detected above the level of the reported quantitation limit.

UJ -The analyte was analyzed for but was not detected. The reported quantitation limit is approximate.

J - Indicates an estimated value for the analyte.

EH-1 location at the Fire Training Facility (noted as the East Hampton PD in the SC Report), and the EH-19A and EH-19B1 locations associated with the ARFF, where AFFF is stored by the EHFD.

2.2.2 Groundwater Sampling and Results

Groundwater sampling was conducted from temporary and permanent monitoring wells and piezometers on the Site and in its vicinity during the SC. Temporary monitoring wells and piezometers were installed during the initial SC activities, with permanent wells installed at six of these locations (EH-1, EH-19A, EH-19B, EH-19A2, EH-B1, and EH-162) during the SC Addendum activities. Each temporary well/piezometer was sampled once during the initial SC activities. In addition, one monitoring well (MW-10, noted as a Suffolk County Water Authority monitoring well) located to the southeast of the Site was also sampled during the initial SC activities.

The SC well and piezometer screens were noted to each be 10 feet long and were installed across the water table surface. Thus, these wells are designed to monitor the uppermost interval of the Upper Glacial Aquifer. The existing MW-10 well was noted to have a water column of approximately 22 feet and its screen configuration was not reported. This well may be positioned to sample groundwater at a somewhat lower level of the aquifer.

The depth-to-groundwater measurements obtained during SC activities were integrated with the surveyed elevations of the wells/piezometers to determine the site-specific lateral groundwater flow direction at the water table. The August 2018 data, which include measurements from all of the temporary wells and piezometers, show a southeasterly flow at a gradient of 4×10^{-4} ft/ft. The March 2019 data, which include measurements from only the six permanent monitoring wells, also show a southeasterly flow. Although these data are more limited, the gradient appears to be slightly steeper, at 6×10^{-4} ft/ft. We note that the water table elevation was about 4 feet higher in March 2019 relative to the elevation noted in August 2018; this change is likely due to stormwater recharge during the 2018/2019 winter months. Figure 2.2.2.1 (Figure 4 from the SC Report) shows the groundwater flow direction in August 2018 based on data from all of the temporary wells and piezometers installed at that time.

All of the groundwater samples were tested for PFAS compounds. Figure 2.2.2.2 (Figure 3 from the Addendum to the SC Report) shows the groundwater sampling locations and summarizes the results for PFOS and PFOA at each location. The full PFAS results are shown on Table 2.2.2.1; concentrations of PFAS compounds exceeding current NYSDEC guidance (PFOA or PFOS exceeding 10 nanograms per liter (ng/L or ppt), any PFAS compound exceeding 100 ng/l, or total of PFAS compounds exceeding 500 ng/l) are highlighted.

PFAS compounds were detected in groundwater at nearly all of the locations sampled; the only locations with no PFAS detections in groundwater were the catch basin next to the tarmac area on the airport portion of the Site, the EH-P2 location to the north of Runway 10/28 (north and west of the Site), the EH-10 location of the Local Television Inc. property on Industrial Road, and the EH-18 location at the East End Hangers property to the west of the Site. Exceedances of current NYSDEC guidance for PFAS in groundwater were noted at the EH-B, EH-B1 and EH-E locations in the North Field Area (location of the 1995 plane crash and the 2008 mass casualty training event conducted by the EHFD), the EH-16 and EH-162 locations in the Airport parking lot (site of the 1997 EHFD mass casualty drill), EH-1 at the Fire Training Facility, and the EH-19A, EH-19A1,





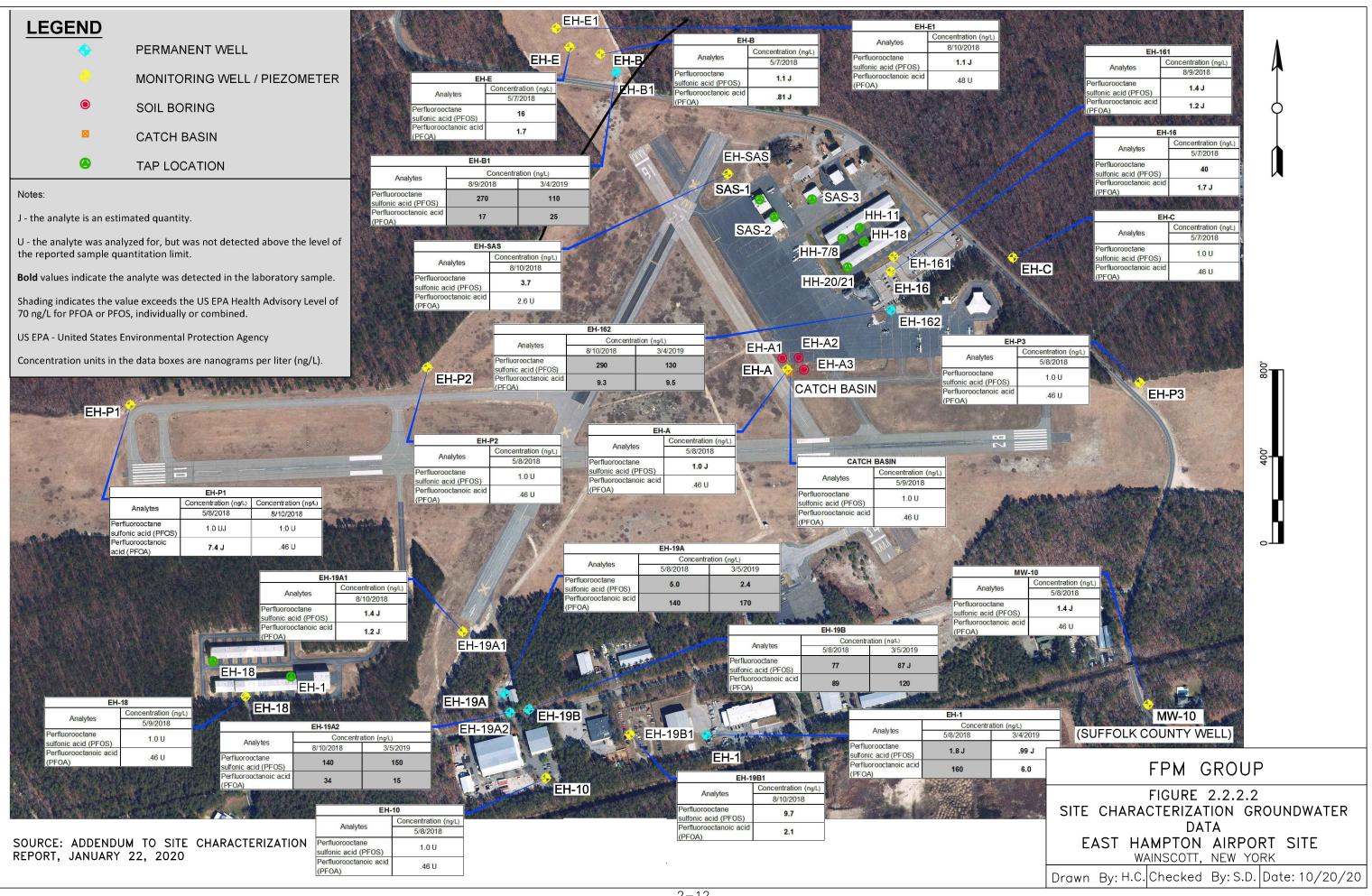


TABLE 2.2.2.1 GROUNDWATER CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area			North Field		Northwest Woods	Daniels Hole Road		NYSDEC	
	MW ID	EH-B	EH-	B1	EH-E	EH-E1	EH-C	MM	/-10	Guidance/Screening Values
	Date	5/7/2018	8/9/2018	3/4/2019	5/7/2018	8/10/2018	5/7/2018	5/8/2018	5/8/2018	
Analytes									Duplicate	
Perfluorobutane sulfonic acid (PFBS)		42	2.4 J	4.1 J	4.9	9.4	0.9 U	0.90 U	0.90 U	100
Perfluorohexane sulfonic acid (PFHxS)		130	34	57	52	24	0.94 U	0.94 U	0.94 U	100
Perfluoroheptane sulfonic acid (PFHpS)		0.88 U	2.8 J	5.0	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	100
Perfluorooctane sulfonic acid (PFOS)		1.1 J	270	110	16	1.1 J	1 U	1.4 J	1.3 J	10
Perfluorodecane sulfonic acid (PFDS)		1.3 U	1.3 U	0.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	100
Perfluorobutanoic acid (PFBA)		37	6.5 J	13	5.6 J	2.7 U	2.7 U	2.7 U	2.7 U	100
Perfluoropentanoic acid (PFPeA)		120	5.9	20	17	8.1	1.1 U	1.1 U	1.1 U	100
Perfluorohexanoic acid (PFHxA)		150	13	32	17	11	0.92 U	0.92 U	0.92 U	100
Perfluoroheptanoic acid (PFHpA)		8.9	2.7 J	9.8	2.2 J	1.2 U	1.3 J	1.2 U	1.2 U	100
Perfluorooctanoic acid (PFOA)		0.81 J	17	25	1.7	0.48 U	0.46 U	0.46 U	0.46 U	10
Perfluorononanoic acid (PFNA)		0.94 U	1 J	1.4 J	1.7 U	0.94 U	0.99 U	0.94 U	0.94 U	100
Perfluorodecanoic acid (PFDA)		0.92 U	0.52 U	1.2 U	1.6 U	0.52 U	1.1 U	0.67 U	0.82 U	100
Perfluoroundecanoic acid (PFUnDA)		1.6 U	0.31 U	1.5 U	1.1 U	0.31 U	1.1 U	1.0 U	1.0 U	100
Perfluorododecanoic acid (PFDoDA)		0.76 U	0.46 U	1.3 U	0.87 U	0.46 U	0.78 U	0.89 U	0.58 U	100
Perfluorotridecanoic acid (PFTrDA)		0.83 U	0.75 U	1.3 U	0.82 J	0.75 U	1.2 J	0.75 U	0.78 U	100
Perfluorotetradecanoic acid (PFTeDA)		1.2 U	1.2 U	2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	100
Perflurooctane sulfonamide (FOSA)		0.35 U	0.35 U	0.52 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	100
N-Methyl perfluorooctane sulfonamidoacetic acid		4.2 UJ	4.2 UJ	1.4 U	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	100
N-Ethyl perfluorooctane sulfonamidoacetic a	cid	0.83 U	0.83 U	0.5 U	0.83 U	0.83 U	8.3 U	0.83 U	0.83 U	100
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		1.2 U	1.2 U	7.1	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	100
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		0.65 U	0.65 U	0.15 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	100
Total PFAS		490	355.3	284.4	117.2	53.6	2.5	1.4	1.3	500

Notes:

Units are ng/L (nanograms/Liter)

Detected concentrations are in Bold font.

Detections exceeding NYSDEC Guidance are highlighted in gray.

J - Indicates an estimated value for the analyte

U -The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.

TABLE 2.2.2.1 (Continued) GROUNDWATER CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area	Sound Aircraft Services		Ai	irport Parking	Lot		East Han	npton PD	NYSDEC
	MW ID	EH-SAS	EH-16	EH-161		EH-162		EH	l- 1	Guidance/Screening Values
	Date	8/10/2018	5/7/2018	8/9/2018	8/10/2018	3/4/2019	3/4/2019	5/8/2018	3/4/2019	
Analytes							Duplicate			
Perfluorobutane sulfonic acid (PFBS)		0.9 U	0.9 U	0.9 U	4.2 J	4.1 J	3.8 J	8.3	8.8	100
Perfluorohexane sulfonic acid (PFHxS)		1.8 J	2.1 J	1.3 J	68	32	35	730	25	100
Perfluoroheptane sulfonic acid (PFHpS)		0.88 U	0.88 U	0.88 U	4.4	1.8	1.9 J	36	0.72 J	100
Perfluorooctane sulfonic acid (PFOS)		3.7	40	1.4 J	290	130	120	1.8 J	0.99 J	10
Perfluorodecane sulfonic acid (PFDS)		1.3 U	1.3 U	1.3 U	1.3 U	0.3 U	0.3 U	1.3 U	0.3 U	100
Perfluorobutanoic acid (PFBA)		2.7 U	5.4 J	2.7 U	4.2 J	3.9 J	4.2	37	43	100
Perfluoropentanoic acid (PFPeA)		1.1 U	1.1 U	1.1 U	3 J	2.9 J	3.1 J	76	110	100
Perfluorohexanoic acid (PFHxA)		0.92 U	2 J	0.92 U	8.9	8.8 U	8.8 U	65	110	100
Perfluoroheptanoic acid (PFHpA)		1.2 U	2.1 J	1.2 U	3.3 J	3.3 J	3.7 J	40	30	100
Perfluorooctanoic acid (PFOA)		2.6 U	1.7 J	1.2 J	9.3	9.5	9.1	160	6.0	10
Perfluorononanoic acid (PFNA)		1.5 J	1.5 U	0.94 U	0.94 U	1.1 U	1.1 U	1.2 U	1.1 U	100
Perfluorodecanoic acid (PFDA)		0.6 U	1 U	0.7 J	0.52 U	1.2 U	1.2 U	0.82 U	1.2 U	100
Perfluoroundecanoic acid (PFUnDA)		0.31 U	1.8 U	1.6 J	0.31 U	1.5 U	1.5 U	1.4 U	1.5 U	100
Perfluorododecanoic acid (PFDoDA)		0.46 U	1.4 U	0.46 U	0.46 U	1.3 U	1.3 U	1.2 U	1.3 U	100
Perfluorotridecanoic acid (PFTrDA)		0.75 U	0.94 J	0.75 U	0.75 U	1.3 U	1.3 U	0.9 U	1.3 U	100
Perfluorotetradecanoic acid (PFTeDA)		1.2 U	1.2 U	1.2 U	1.2 U	2.0 U	2.0 U	1.2 U	2.0 U	100
Perflurooctane sulfonamide (FOSA)		0.35 U	0.35 U	0.35 U	0.35 U	0.52 U	0.52 U	0.35 U	0.52 U	100
N-Methyl perfluorooctane sulfonamidoacetic	acid	4.2 U	4.2 UJ	4.2 UJ	4.2 U	1.4 U	1.4 U	4.2 UJ	1.4 U	100
N-Ethyl perfluorooctane sulfonamidoacetic a	cid	0.83 U	0.83 U	0.83 U	0.83 U	0.50 U	0.50 U	0.83 U	0.50 U	100
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		1.6 J	1.2 U	1.2 U	1.2 U	4.5	3.7 J	7.0 3.0 J		100
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		0.65 U	0.65 U	0.65 U	0.65 U	0.15 U	0.15 U	0.65 U	0.15 U	100
Total PFAS		8.6	54	6.2	395.3	192	184.5	1,161.1	337.5	500

Notes:

Units are ng/L (nanograms/Liter)

Detected concentrations are in Bold font.

Detections exceeding NYSDEC Guidance are highlighted in gray.

J - Indicates an estimated value for the analyte

U -The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.

TABLE 2.2.2.1 (Continued) GROUNDWATER CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area		NYSDEC									
	MW ID	EH-19A		EH-19A1	H-19A1 EH-19A2				19B	EH-19B1	Guidance/Screening Values	
Analytes	Date	5/8/2018	3/5/2019	8/10/2018	8/10/2018	8/10/2018 (Duplicate)	3/5/2019	5/8/2018	3/5/2019	8/10/2018		
Perfluorobutane sulfonic acid (PFBS)		360	40	12	8.5	9.1	7.8	29	200	8.5	100	
Perfluorohexane sulfonic acid (PFHxS)		240	150	1.5 J	85	57	18	750	930	3.7 J	100	
Perfluoroheptane sulfonic acid (PFHpS)		0.88 U	0.44 U	0.88 U	2.1 J	1.6 J	2.1 J	12	17	0.88 U	100	
Perfluorooctane sulfonic acid (PFOS)		5.0	2.4	1.4 J	140	100	150	77	87 J	9.7	10	
Perfluorodecane sulfonic acid (PFDS)		1.3 U	0.3 U	1.3 U	1.3 U	1.3 U	0.3 U	1.3 U	0.3 U	1.3 U	100	
Perfluorobutanoic acid (PFBA)		710	400	3.9 J	82	73	51	61	120	8.8	100	
Perfluoropentanoic acid (PFPeA)		2,600	1,200	1.1 U	140	160	120	170	360	6.5	100	
Perfluorohexanoic acid (PFHxA)		2,800	1,100	1.9 J	150	130	93	200	380	7.7	100	
Perfluoroheptanoic acid (PFHpA)		1,500	1,100	1.2 U	99	100	46	180	290	1.2 U	100	
Perfluorooctanoic acid (PFOA)		140	170	1.2 J	34	28	15	89	120	2.1	10	
Perfluorononanoic acid (PFNA)		7 U	1.1 U	0.94 U	17	13	10	14	28	0.94	100	
Perfluorodecanoic acid (PFDA)		1.8 U	1.2 U	0.52 U	4.1 J	3.4 U	4.4 J	2.3 U	1.8 J	0.52 U	100	
Perfluoroundecanoic acid (PFUnDA)		2.6 U	1.5 U	0.31 U	2.2 J	1.3 J	1.5 U	2.2 U	1.9 J	1.1 J	100	
Perfluorododecanoic acid (PFDoDA)		1.1 U	1.3 U	0.46 U	0.46 U	0.46 U	1.3 U	0.63 U	1.3 U	0.46 U	100	
Perfluorotridecanoic acid (PFTrDA)		1.7 U	1.3 U	0.75 U	0.75 U	0.75 U	1.3 U	1.2 U	1.3 U	0.75 U	100	
Perfluorotetradecanoic acid (PFTeDA)		1.2 U	2 U	1.2 U	1.2 U	1.2 U	2 U	1.2 U	2 U	1.2 U	100	
Perfluorooctane sulfonamide (FOSA)		0.35 U	0.52 U	0.35 U	0.35 U	0.35 U	0.52 U	0.35 U	0.52 U	0.35 U	100	
N-Methyl perfluorooctane sulfonamidoacetic acid		4.2 UJ	1.4 U	4.2 UJ	4.2 UJ	4.2 U	1.4 U	4.2 UJ	1.4 U	4.2 UJ	100	
N-Ethyl perfluorooctane sulfonamidoacetic acid		0.83 U	0.5 U	0.83 U	0.83 U	0.83 U	0.5 U	0.83 U	0.5 U	0.83 U	100	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		7.0	4.6	1.6 J	3.9 J	5.1	2.8 J	120	120	1.2 U	100	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		2.8 J	0.65 J	0.65 U	50	46	63	14	8.7	5.0	100	
Total PFAS		8,364.8	4,167.7	24	818	724	583	1,716	2,664	54	500	

Notes:

Units are ng/L (nanograms/Liter)

Detected concentrations are in Bold font.

Detections exceeding NYSDEC Guidance are highlighted in gray.

J - Indicates an estimated value for the analyte

U -The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.

TABLE 2.2.2.1 (Continued) GROUNDWATER CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area	Aircraft/Helic	opter Taxiway	West End of Main Runway		Middle of Main Runway	East Field	Local Television Inc.	East End Hangars	NYSDEC Guidance/Screening Values	
	MW ID	EH-A	CATCH BASIN	EH-	EH-P1		EH-P3	EH-10	EH-18		
	Date	5/8/2018	5/9/2018	5/8/2018 8/10/2018 5/8/2018 5/8/2018 5/8/20		5/8/2018	5/9/2018				
Analytes											
Perfluorobutane sulfonic acid (PFBS)		0.9 U	0.9 U	1.0 J	0.9 U	0.9 U	0.9 U	0.90 U	0.90 U	100	
Perfluorohexane sulfonic acid (PFHxS)		0.94 U	0.94 U	3.0 J	1.0 J	0.94 U	1.0 J	0.94 U	0.94 U	100	
Perfluoroheptane sulfonic acid (PFHpS)		0.88 U	0.88 U	0.88 UJ	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	100	
Perfluorooctane sulfonic acid (PFOS)		1.0 J	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10	
Perfluorodecane sulfonic acid (PFDS)		1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	100	
Perfluorobutanoic acid (PFBA)		2.7 U	2.7 U	3.7 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	100	
Perfluoropentanoic acid (PFPeA)		1.1 U	1.1 U	6.8 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	100	
Perfluorohexanoic acid (PFHxA)		0.92 U	0.92 U	9.9 J	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	100	
Perfluoroheptanoic acid (PFHpA)		1.6 U	2.6 U	8.0 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	100	
Perfluorooctanoic acid (PFOA)		0.46 U	0.46 U	7.4 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	10	
Perfluorononanoic acid (PFNA)		1.5 U	2.1 U	8.9 UJ	0.94 U	1.0 U	1.1 J	0.94 U	0.94 U	100	
Perfluorodecanoic acid (PFDA)		2.3 U	1.5 U	9.5 UJ	0.52 U	1.0 U	0.93 U	1.0 U	0.7 U	100	
Perfluoroundecanoic acid (PFUnDA)		1.5 U	1.6 U	12 J	0.43 J	1.3 U	1.1 U	1.4 U	1.2 U	100	
Perfluorododecanoic acid (PFDoDA)		0.67 U	1.7 U	21 J	0.46 U	1.1 U	0.87 U	0.96 U	0.86 U	100	
Perfluorotridecanoic acid (PFTrDA)		1.1 U	1.5 U	20 J	0.75 U	1.2 U	1.3 J	1.1 U	1.3 U	100	
Perfluorotetradecanoic acid (PFTeDA)		1.2 U	1.2 U	19 J	1.3 J	1.2 U	1.2 U	1.2 U	1.2 U	100	
Perfluorooctane sulfonamide (FOSA)		0.35 U	0.35 U	0.35 UJ	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	100	
N-Methyl perfluorooctane sulfonamidoacetic acid		4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	100	
N-Ethyl perfluorooctane sulfonamidoacetic acid		0.83 U	0.83 U	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	100	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		1.2 U	1.2 U	1.4 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	100	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		0.65 U	0.65 U	0.65 UJ	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	100	
Total PFAS		1.0	None	105.2	2.7	None	3.4	None	None	500	

Notes:

Units are ng/L (nanograms/Liter)

Detected concentrations are in **Bold font**.

Detections exceeding NYSDEC Guidance are highlighted in gray.

J - Indicates an estimated value for the analyte

U -The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.

EH-19A2, and EH-19B locations at the ARFF, where AFFF is stored by the EHFD.

2.2.3 Tap Water Sampling and Results

Sampling of tap water from private water supply wells (sourced from groundwater) was conducted in several of the airport hangar areas during the SC and Addendum work, with all of the tap water samples tested for PFAS compounds. Figure 2.2.3.1 (Figure 5 from the SC Report, as revised to show the location sampled during the Addendum work) shows the tap water sampling locations and summarizes the results for PFOS and PFOA at each location. The full PFAS results are shown on Table 2.2.3.1. It should be noted that the depths and screen intervals of the supply wells from which the tap water samples were obtained were not reported. However, it is likely that the samples originated from the Upper Glacial Aquifer. Additional information concerning the supply well depths and screen intervals will be sought during the RI.

PFAS compounds were detected in all of the tap water samples. Most of the detections were at low estimated concentrations. Three detections of PFAS compounds at the SAS-1 location (Sound Aircraft Services) exceed current NYSDEC guidance for PFAS in groundwater; these detections are PFOA at 11 ng/l and 22 ng/l, and PFHxS at 160 ng/l.

2.3 Wainscott Sand and Gravel Site Characterization Investigation

An SC investigation was conducted at the WSG Site, just to the southeast of the East Hampton Airport Site, by the NYSDEC through its contractor HDR in 2019, with the results reported in 2020. The SC investigation included testing of soil and groundwater at the Site and the results indicated the presence of PFAS compounds in soil and groundwater, as summarized below. Key figures showing the SC investigation results for groundwater are included in Appendix A. The data from this SC investigation are useful for evaluating the vertical distribution of PFAS impacts and the types of PFAS compounds present in the aquifer downgradient of the East Hampton Airport Site.

Soil sampling was conducted at multiple locations and multiple depths across the site, with select samples analyzed for the full list of NYSDEC parameters and all of the samples analyzed for PFAS. Many of the soil sampling locations were in an area in the northern portion of this site where firefighting training had been reported and confirmed by photographs of the training activities. The results indicated that PFAS compounds were detected in all of the soil samples, with two PFAS compounds (PFOS and/or PFUnA) detected at multiple locations (S2, S3, S4, S5, S6, S7, and S9) in the reported firefighting training area. The soil results were compared to the current NYSDEC Guidance Values and several of the PFOS detections were noted to exceed the NYSDEC Guidance Value for Unrestricted Use but were below the Guidance Value for Protection of Groundwater.

Groundwater sampling was conducted at several locations across the Site, including vertical profiles and water table monitoring wells. Most of the samples were tested for the full list of NYSDEC parameters and all of the samples were tested for PFAS. The groundwater flow direction was noted to generally be to the southeast. PFAS compounds, primarily PFOS and PFOA, but including PFNA, PFUnA, and/or PFHxS in some cases, were noted at each groundwater sampling location, with concentrations noted to be more elevated in upgradient sample locations (GW-9, GW-1, MW-3, MW-5 and MW-6) and lower in central and downgradient sampling locations. Using the SC investigation data, the NYSDEC concluded that PFAS compounds are migrating onto the WSG Site in groundwater from an upgradient offsite source and reclassified the WSG Site to "N" (No further action at this time), indicating that the



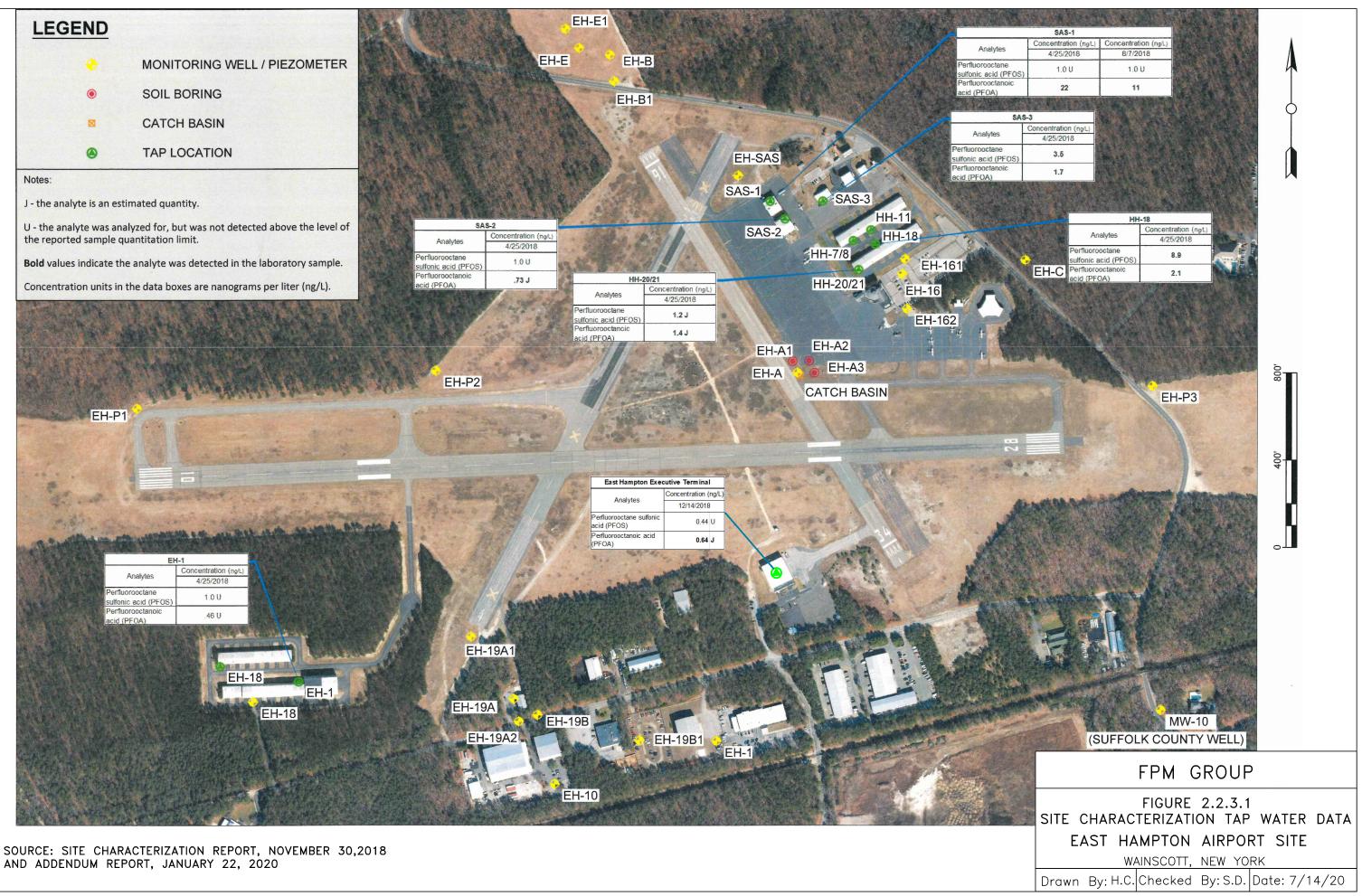


TABLE 2.2.3.1 TAP WATER CHEMICAL ANALYTICAL DATA - SITE CHARACTERIZATION EAST HAMPTON AIRPORT WAINSCOTT, NEW YORK

	Area	Hampton	Hangars		Soun	East Hampton Executive Terminal	East Hampton Hangars			
	Sample ID	HH-20/21	HH-18	SAS	SAS-1		SAS-2 SAS-2 Duplicate		Tap Water	EH-1
	Date	4/25/2018	4/25/2018	4/25/2018	8/7/2018	4/25/	2018	4/25/2018	12/14/2018	4/25/2018
Perfluorobutane sulfonic acid (PFBS)		0.90 U	0.90 U	29	8.7	0.90 U	0.90 U	0.90 U	0.28 U	0.90 U
Perfluorohexane sulfonic acid (PFHxS)		5.8	6.6	160	78	1.6 J	1.3 J	3.8 J	1.3 U	1.0 J
Perfluoroheptane sulfonic acid (PFHpS)		0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.88 U
Perfluorooctane sulfonic acid (PFOS)		1.2 J	8.9	1.0 U	1.0 U	1.0 U	1.0 U	3.5	0.44 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.3 U	1.3 U
Perfluorobutanoic acid (PFBA)		2.7 U	2.7 U	3.4 J	2.8 J	4.1 J	3.3 J	2.7 U	0.4 U	2.7 U
Perfluoropentanoic acid (PFPeA)		1.1 U	1.1 U	8.9	3.1 J	4.2 J	3.8 J	1.1 U	1.7 U	1.1 U
Perfluorohexanoic acid (PFHxA)		1.2 J	0.92 U	22	12	4.1 J	3.9 J	0.92 U	8.8 U	0.92 U
Perfluoroheptanoic acid (PFHpA)		1.6 J	2 J	7.3	2.5 J	1.7 J	1.7 J	1.7 J	0.63 U	1.2 U
Perfluorooctanoic acid (PFOA)		1.4 J	2.1	22	11	0.73 J	0.71 J	1.7	0.64 J	0.46 U
Perfluorononanoic acid (PFNA)		0.94 U	1.2 J	1.0 J	0.94 U	0.94 U	0.99 J	1.0 J	1.1 U	0.94 U
Perfluorodecanoic acid (PFDA)		1.0 U	1.0 U	0.86 U	0.52 U	0.87 U	0.58 U	0.82 U	1.2 U	0.81 U
Perfluoroundecanoic acid (PFUnDA)		0.90 U	1.00 U	1.1 U	0.31 U	0.79 U	0.88 U	1.1 U	1.5 U	1.2 U
Perfluorododecanoic acid (PFDoDA)		0.58 U	0.52 U	0.83 U	0.46 U	0.70 U	0.46 U	0.46 U	1.3 U	0.68 U
Perfluorotridecanoic acid (PFTrDA)		0.75 U	0.75 U	0.75 U	0.75 U	0.92 U	0.75 U	0.75 U	1.3 U	0.75 U
Perfluorotetradecanoic acid (PFTeDA)		1.2 U	1.2 U	1.4 J	1.2 U	1.6 J	1.2 U	1.2 U	2.0 U	1.2 U
Perfluorooctane sulfonamide (FOSA)		0.37 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.1 J	0.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid		4.2 U	4.2 U	4.2 U	4.2 UJ	4.2 U	4.2 U	4.2 U	1.4 U	4.2 U
N-Ethyl perfluorooctane sulfonamidoacetic acid		0.83 U	0.83 UJ	0.83 UJ	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ	0.5 U	0.83 UJ
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.55 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.15 U	0.65 U
Total PFAS		11.6	20.8	255.0	118.1	18.03	15.7	11.7	2.74	1.0

Notes:

Units are in ng/L (nanograms/Liter or parts per trillion)

Detected concentrations are in **Bold font.**

Detections exceeding NYSDEC groundwater Guidance are highlighted in gray.

J - The quantity is estimated.

U -The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

contamination that may be present on the site is not sufficient to warrant placing the site on the Registry of Inactive Hazardous Waste Disposal sites.

2.4 Preliminary Conceptual Site Model

A preliminary CSM has been developed for this Site, the boundaries of which are shown on Figure 1.1.2, to describe the existing information regarding contaminants of potential concern, potential sources of contamination, potentially affected media (soil, groundwater, and soil vapor), and transport and exposure pathways that could result in potential receptor exposures. This preliminary CSM synthesizes the available data and will be updated based on the findings of the RI.

Results obtained from previous investigations of the Site indicate that there are contaminants of potential concern, specifically PFAS compounds, in soil and groundwater in areas of the Site. Some of the PFOS detections in onsite soil exceed applicable NYSDEC criteria for protection of groundwater and some of the concentrations of PFAS compounds detected in the onsite groundwater exceed applicable NYSDEC criteria. The lateral and vertical extents of these identified impacts have not been fully defined. A wider range of PFAS compounds was detected in onsite groundwater than in onsite soil; additional investigation is needed to evaluate potential relationships between onsite soil and groundwater conditions.

Groundwater flow at the water table surface onsite and offsite is generally to the south-southeast. The vertical directions of groundwater flow and horizontal directions of groundwater flow at deeper levels of the Upper Glacial Aquifer have not yet been determined. Potential variability in groundwater flow directions due to seasonal effects and/or influences from nearby water supply wells, including likely agricultural irrigation supply wells to the southwest of the Site, have not been evaluated.

PFAS compounds have been identified in offsite groundwater in areas generally downgradient of the Site at levels exceeding applicable NYSDEC criteria. Offsite vertical profiles indicate that in some locations the PFAS compounds are found at multiple depths in the aquifer. The existing vertical profiles are widely-spaced and do not provide sufficient information to confirm the potential source(s) of the PFAS impacts. Available private water supply well data for PFOA and PFOS are variable with respect to detections and concentrations and the depths in the aquifer that these data represent are not known. Additional groundwater flow direction and quality data are needed to evaluate the extent of the Site's offsite groundwater impacts.

PFOA and PFOS were contaminants of concern identified by the NYSDEC for the Site and the Site was classified as a Class 2 Inactive Hazardous Waste Disposal Site due to the detections of PFOA and PFOS in Site media during the SC. Data have not yet been obtained for other potential contaminants of concern in soil and/or groundwater at the Site, including metals, volatile and semivolatile organic compounds (VOCs and SVOCs), PCBs, pesticides, or 1,4-dioxane, and soil vapor conditions at the Site have not been evaluated. Additional information is needed to fill these data gaps. If additional contaminants of potential concern are identified, then these conditions may require further investigation.

NYSDEC has identified certain Site-related sources of PFAS contaminants where fire-fighting foam training and crash response occurred, where Class B fire-fighting foam (AFFF) was used in a mass casualty training exercise, where AFFF and an associated fire truck are stored, and in



association with a fire training structure. Existing soil data have identified PFOS impacts above protection of groundwater criteria (sources) in shallow soil at some of these locations, but not all potential source locations have been investigated. Additional information is needed to assess potential PFAS source locations, to delineate the existing identified source areas, and to evaluate whether Site-related contaminants are migrating from the Site at the downgradient boundaries (point of compliance). As set forth herein, the Town has identified additional potential PFAS source locations include plane crash sites, fire sites, training areas, storage areas, and stormwater and sanitary waste discharge points. The EHFD, which is owned and operated by the Incorporated Village of East Hampton, a separate municipality from the Town, has used and stored AFFF at the Site. The Town and NYSDEC have requested that EHFD provide all information regarding locations where it used and stored AFFF, but the EHFD has not yet provided this information. The scope of work in this RI/FS Work Plan has been prepared with all information pertaining to potential AFFF use and storage locations presently available to the Town; this scope may be supplemented if the EHFD provides additional information concerning AFFF use and storage locations.

Based upon the types of contaminants of potential concern present at the Site (PFAS) and the media in which the contaminants are present (soil and groundwater), the following mechanisms for contaminant transport are presently identified for the Site:

- Transport of soil particles by wind, stormwater, and/or physical tracking;
- Leaching of contaminants of potential concern from soil into groundwater; and
- Transport of contaminants of potential concern in groundwater via groundwater flow.

The following potential exposure routes for contaminants of potential concern are presently identified for the Site:

- Dermal contact, inhalation, and incidental ingestion of soil particulates; and
- Dermal contact, inhalation, and ingestion of groundwater via supply wells.

Additional information to be obtained during the RI will be used to update this preliminary CSM, including the contaminants of potential concern, potential sources of contamination (including any additional information concerning AFFF use and storage locations that may be provided by the EHFD), potentially affected media (soil, groundwater, and soil vapor), and transport and exposure pathways that could result in potential exposures. As noted in Section 3 below, select samples will be tested for the full list of DER-10 contaminants during the RI. If contaminants other than PFAS compounds are identified in excess of applicable NYSDEC criteria, the CSM will be updated to include this information.

The RI will be conducted in a phased manner, with the CSM updated as the RI progresses to further delineate contaminants of concern, Site-related sources, affected media, and transport and exposure mechanisms. The CSM will be used during development of the Exposure Assessment, which will evaluate potential human health risks posed by the Site-related contaminants.



SECTION 3.0 SCOPE OF REMEDIAL INVESTIGATION

The scope of RI work presented below has been developed to evaluate the nature and extent of contamination in all media at this Site, including further evaluation of PFAS impacts identified in onsite soil and groundwater and further evaluation of potential sources of PFAS. The nature and extent of PFAS impacts in offsite groundwater that may be related to the Site will also be evaluated. This scope of work has been developed in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010) and correspondence with the NYSDEC, and includes soil, groundwater, and soil vapor sampling.

FPM will conduct the RI on behalf of the Town of East Hampton. All RI work will be overseen by a Qualified Environmental Professional (QEP). Contact information for the principal personnel for this project and the Site owner is provided in Table 3.1. Resumes of the principal technical personnel for this project are included in Appendix B.

Bala	Nome	Phone I	Numbers	Email	
Role	Name	Office	Cell	Lilidii	
Project Manager	Ben Cancemi, PG	631-737-6200 ext. 509	516-383-7106	b.cancemi@fpm-group.com	
QA/QC Officer	Stephanie Davis, PG	631-737-6200 ext. 528	516-381-3400	s.davis@fpm-group.com	
Field Services Manager	John Bukoski, PG	631-737-6200 ext. 518	516-381-3535	j.bukoski@fpm-group.com	
Town Contact	John Jilnicki	631-324-8787	-	JJilnicki@EHamptonNY.gov	

TABLE 3.1PROJECT PERSONNELEAST HAMPTON AIRPORT SITE, WAINSCOTT, NEW YORK

All field work will be performed using a site-specific Health and Safety Plan (HASP), a copy of which is included in Appendix C. Please note that the HASP includes a Community Air Monitoring Plan (CAMP) prepared in accordance with DER-10, Appendix 1A. FPM will implement the CAMP during all intrusive activities at the Site.

A Citizen Participation Plan (CPP) has been approved for this Site. A copy of the approved CPP is located at the document repositories.

3.1 RI Scope of Work

The onsite RI sampling activities have been developed based on an evaluation of the existing SC data presented in Section 2.2, including information concerning storage and use of AFFF onsite as noted in Section 1.3. If additional information concerning AFFF storage and/or use becomes available during the RI, then additional sampling may be proposed. The scope of work was discussed with the NYSDEC during August 13, 2020 and April 27, 2021 conference calls, including use of established NYSDEC standards, criteria and guidance and MCLs for evaluating the RI data. Modifications to the RI scope of work were made based on comments in May 4, 2021 NYSDEC correspondence. The onsite sampling locations were selected for the purpose of



investigating and characterizing the nature and extent of contamination that may be present on and in proximity to the Site, including further evaluating previously-identified soil and groundwater conditions and conducting sufficient sampling to fully characterize the soil, soil vapor, and groundwater conditions in these areas.

The offsite RI sampling activities have been developed, in part, based on the groundwater data previously obtained by the SCDHS and NYSDEC at locations more distant from the Site, as described in Sections 2.1 and 2.3. The sampling locations shown in Section 3.1.2 were selected based on the existing available data for the purpose of investigating and characterizing the nature and extent of Site-related PFAS contamination that may be present in groundwater downgradient of the Site. It should be noted that the results of the onsite RI work may be used to modify the selected offsite sampling locations so as to better evaluate the nature and extent of Site-related offsite impacts, as discussed below.

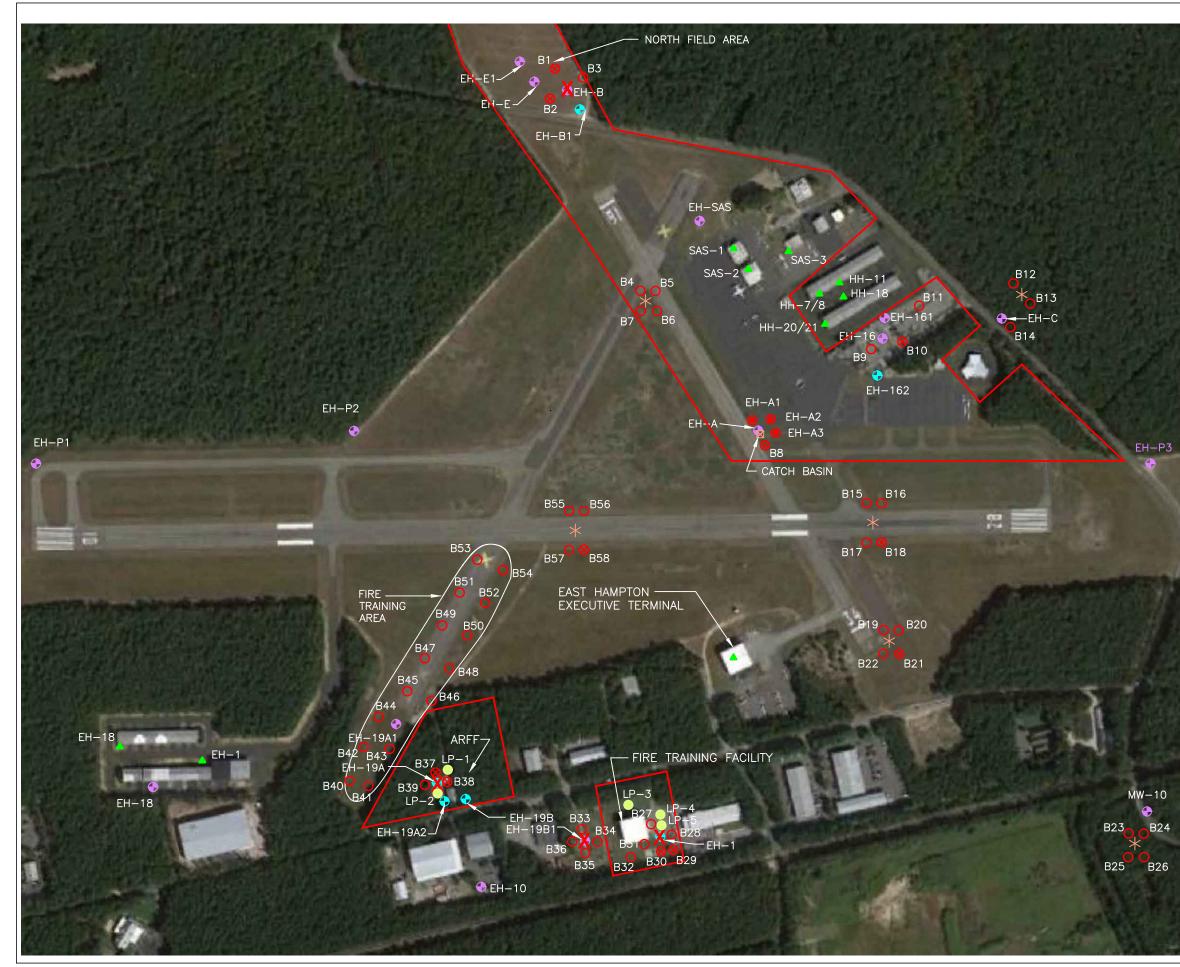
In addition to the onsite and offsite sampling described below, the RI will include further development of the preliminary CSM presented in Section 2.4 such that Site-related potential human exposures and environmental impacts can be evaluated during the Exposure Assessment. The preliminary CSM was developed using the existing onsite and offsite data and will be refined as additional data become available during the RI. The CSM will identify potential sources of contamination, the types of contaminants and affected media, contaminant release mechanisms and potential migration pathways, and actual and potential human and environmental receptors.

3.1.1 Onsite Sampling Locations

The proposed onsite RI sampling locations are shown on Figures 3.1.1 and 3.1.2, together with the previous SC sampling locations and the locations of areas where PFAS impacts may be present, based on the Site history. The scope of the onsite RI work includes the following components:

Soil sampling will be conducted at multiple onsite soil boring locations (B1 through B58, open red circles on Figure 3.1.1). These locations were selected to be within and in proximity to areas where PFAS soil impacts exceeding NYSDEC groundwater protection criteria were previously identified (North Field EH-B area, Fire Training Facility EH-1 area, and ARFF Station EH-19A and EH-19B1 areas) or PFAS impacts are suspected, including fire training areas, stormwater runoff areas, and select plane crash sites. In general, each soil boring location in proximity to previous locations where PFAS was identified in soil above groundwater protection criteria will be selected to be between 20 and 40 feet from the previous sample location, with the objective of providing lateral delineation of PFAS impacts to soil in areas with no prior soil sampling data. Soil sample locations in areas not previously assessed or where assessment may not be complete (Northeast Woods plane crash site and aircraft taxiway fire site) will be selected so as to evaluate soil conditions where PFAS is most likely to be present. Exact soil boring locations will be established in the field based on observed conditions, proximity to structures, and similar factors. Soil samples will be collected at several depths in each boring, as described in Section 3.2, to characterize the potential vertical extent of impacts;





LEGEND:

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	SITE BOUNDARY
*	PLANE CRASH SITE
PRE	VIOUS SAMPLING LOCATIONS
•	PERMANENT WELL
•	MONITORING WELL/PIEZOMETER
۲	SOIL BORING
\boxtimes	CATCH BASIN
	TAP LOCATION
PRC	POSED SOIL SAMPLING LOCATIONS
0	B1 SOIL BORING (PFAS)
8	B2 SOIL BORING (PFAS, 1,4-DIOXANE, DER-10)
Χ	PRIOR BORING, ADDITIONAL SAMPLING (PFAS)
	LP-1 LEACHING STRUCTURE



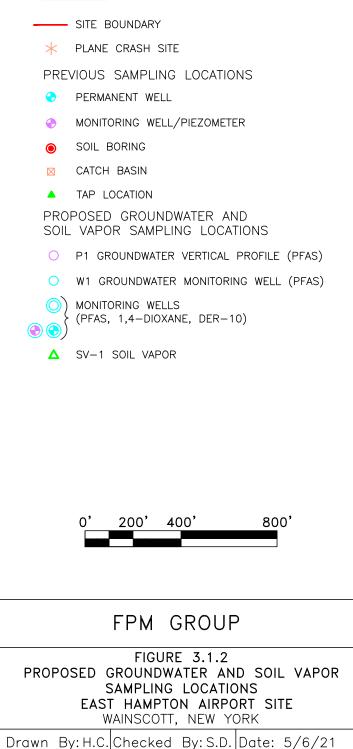
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FIGURE 3.1.1 PROPOSED SOIL SAMPLING LOCATIONS EAST HAMPTON AIRPORT SITE WAINSCOTT, NEW YORK

Drawn By: H.C. Checked By: S.D. Date: 5/6/21



LEGEND:



- Soil sampling will also be conducted at select previous locations where PFOS was previously detected in soil at levels above groundwater protection criteria. This includes the former EH-B, EH-19A, EH-19B1, and EH-1 locations, as denoted on Figure 3.1.1. Soil samples will be collected at several depths in each boring, as described in Section 3.2, to characterize the vertical extent of previously-identified impacts;
- Soil sampling will also be conducted within stormwater discharge structures in the areas where these structures are present in proximity to previously-identified PFAS-impacted soils and where storage and/or use of AFFF are documented or suspected to have occurred. Soil sampling will also be conducted with in the primary leaching structure of select sanitary waste disposal systems where storage and/or use of AFFF are documented or suspected to have occurred. The stormwater discharge structures are known to be present in several areas of the Site (e.g. the Airport Parking Lot mass casualty training area, the Fire Training Facility, and the ARFF station). The sanitary waste disposal systems at the Fire Training Facility and ARFF station will also be sampled. Additional discharge structures may be identified and sampled in the field during the RI field activities;
- Select soil samples may be analyzed using the Synthetic Precipitation Leaching Procedure (SPLP) in the event that PFAS compounds (not including PFOA or PFOS) are found in onsite soils at levels that could result in leaching to groundwater at concentrations that might exceed applicable NYSDEC groundwater criteria. Specifically, if a PFAS compound (not including PFOA or PFOS) is detected in soil at a level of greater than 2 ug/kg (ppb), it is theoretically possible for that PFAS compound to leach to groundwater at a level greater than 100 ng/l (the NYS Guidance Value for PFAS compounds other than PFOA and PFOS). Therefore, detections of PFAS compounds (other than PFOA and PFOS) in soil at levels greater than 2 ug/kg will trigger SPLP testing of the affected sample(s). SPLP analysis, if performed, would be conducted following a review of the data for the RI soil samples;
- Soil sampling will be conducted at select locations for the NYSDEC DER-10 full list of parameters and 1,4-dioxane, in addition to PFAS. These locations are indicated on Figure 3.1.1 and include two locations in the North Field Area, one location next to Runway 10 at the site of a 1998 plane crash with a reported gas leak, one location at a 1998 plane crash and fuel spill site off the south end of Runway 16, one location at the fuel truck fire site, one location next to Runway 10 where an aircraft/deer collision with a resultant fuel leak was reported, two locations at the ARFF facility, and two locations at the Fire Training Facility. These locations were selected due to reports of fuel spills or the nature of activities that are conducted at the facilities;
- Additional soil sampling will be conducted, with NYSDEC concurrence, if needed to delineate soil impacts that exceed NYSDEC Guidance Values for groundwater protection;
- Following the completion of onsite soil sampling and review of the resulting data, vertical profile groundwater sampling will be conducted at multiple onsite locations (P1 through P40, open pink circles on Figure 3.1.2). These locations, which may be adjusted based on the soil data, were generally selected to be within or downgradient of areas where PFAS impacts were previously identified in shallow groundwater during the SC investigation and/or where PFAS impacts may be present based on the Site history described in Section 1.3. These locations include positions near and along the downgradient side of the Site, the point of compliance, to evaluate whether Site-related impacts may be migrating further



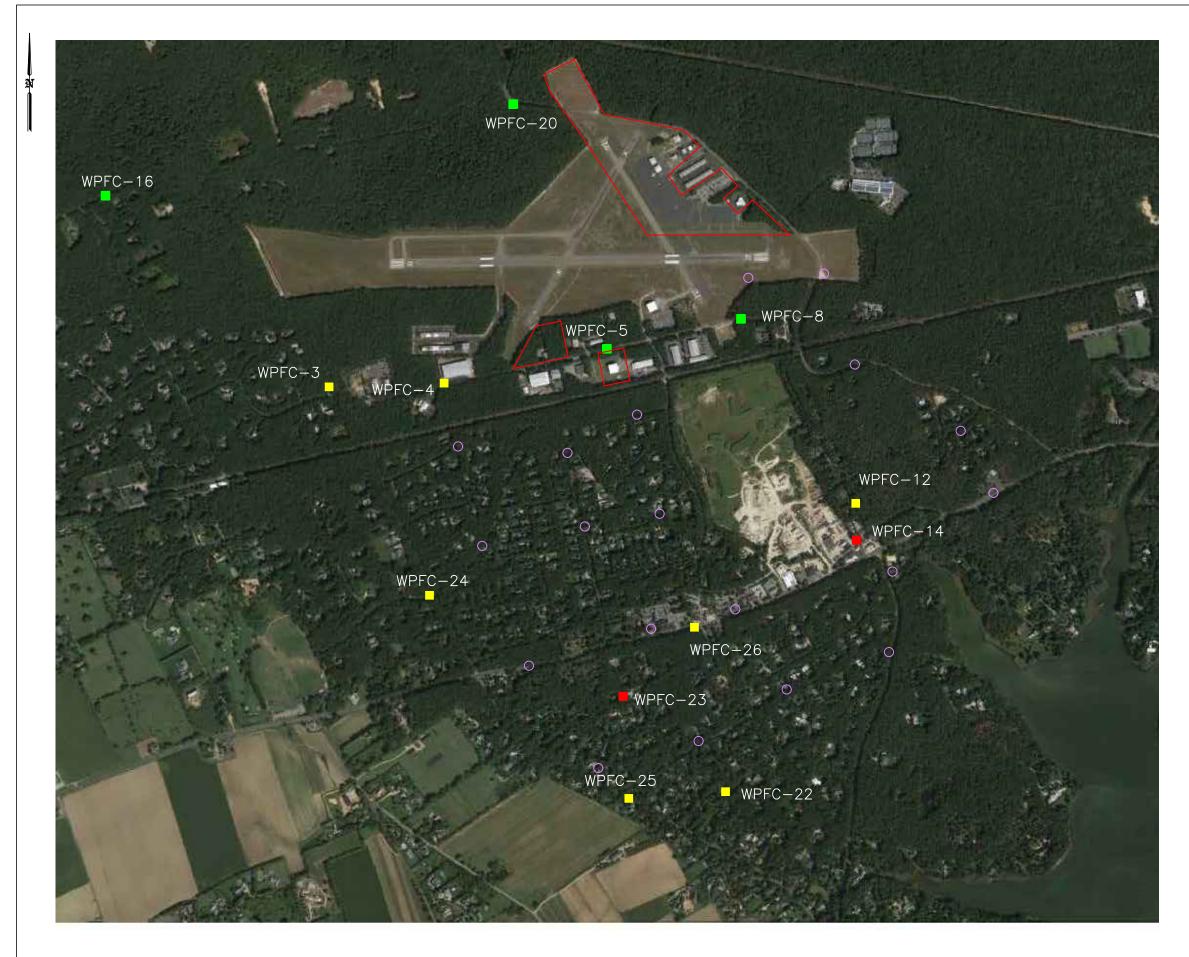
downgradient. Groundwater samples will be collected at several depths in each profile, as noted in Section 3.2, to characterize the vertical extent of impacts and the results will be used, together with groundwater flow direction information, to confirm locations and depths for permanent monitoring wells. Results depths will be referenced relative to grade and water table;

- Water level measurements will be obtained from the existing network of permanent monitoring wells. These data will be integrated with the surveyed elevations of the well casings to further evaluate the Site-specific groundwater flow directions;
- The configuration (well screen intervals and depths) will be evaluated for each of the identified onsite water supply wells, as feasible. This evaluation may include obtaining information from the Town, the SCDHS, NYSDEC, and/or the well driller(s) concerning well construction. Information will also be sought concerning well capacity and usage;
- Multi-level groundwater monitoring wells W1 through W13 will be installed onsite to supplement the existing water table groundwater monitoring network; the open blue circles on Figure 3.1.2 illustrate potential locations of the wells based on existing data. The additional groundwater data obtained during the vertical profile groundwater sampling will be used, together with the existing and newly-obtained groundwater flow direction information, to determine the final number of wells, well locations, and depth intervals, with NYSDEC concurrence. In general, these wells will be located to evaluate groundwater conditions at locations within, upgradient, downgradient, and crossgradient of apparent PFAS source areas, including points of compliance along the downgradient side of the Site. Using these wells, the Site-specific groundwater lateral and vertical flow directions will be further evaluated at multiple depths in the aquifer;
- Groundwater sampling will be performed at these wells (and from existing onsite water supply wells, if applicable) to further evaluate onsite groundwater conditions and the potential for Site-related groundwater contamination to extend offsite. Groundwater will be sampled at all wells and depths for PFAS and at select wells for the NYSDEC DER-10 full list of parameters and 1,4-dioxane, in addition to PFAS. These select wells will be sampled at the water table level only and are indicated on Figure 3.1.2. The select wells include two wells in the North Field Area, three wells in and downgradient of the airport parking lot (also downgradient of the hangar area and fuel farm), one well at the fuel truck fire site, two wells at and downgradient of the ARFF facility (also downgradient of the fire training area), and two wells at the Fire Training Facility. These wells were selected due to their locations in and/or downgradient of actively used areas, including the hangars, fuel farm, ARFF, Fire Training Facility, fire training area, terminal, and parking areas, where there is a greater potential for groundwater impacts to be present; and
- Sub-slab soil vapor sampling will be conducted at 8 representative buildings within the Site (open green triangles on Figure 3.1.2) to provide information concerning the potential for soil vapor intrusion for onsite buildings.

3.1.2 Offsite Sampling Locations

The presently-proposed offsite RI sampling locations are shown on Figure 3.1.3, together with the previous SCDHS vertical profile locations. Note that these proposed locations may be modified, with NYSDEC concurrence, based on a review of the onsite sampling results and





LEGEND:

PREVIOUS SCDHS VERTICAL PROFILE

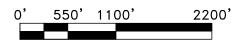
PROPOSED GROUNDWATER SAMPLING LOCATIONS

• VERTICAL PROFILE

_____ SITE BOUNDARY

NOTE:

THE PROPOSED OFFSITE GROUNDWATER SAMPLING LOCATIONS MAY BE MODIFIED, WITH NYSDEC CONCURRENCE, BASED ON THE ONSITE GROUNDWATER RESULTS AND FLOW DIRECTIONS.



FPM GROUP

FIGURE 3.1.3 PROPOSED OFFSITE GROUNDWATER SAMPLE LOCATIONS EAST HAMPTON AIRPORT SITE WAINSCOTT, NEW YORK Drawn By: H.C. Checked By: S.D. Date: 5/5/21 groundwater flow direction information. The scope of the offsite RI work includes the following components:

Additional information will be requested from the SCDHS concerning available private water supply well construction and usage data. Any additional available private water supply well testing results will also be requested. Information will also be requested from the NYSDEC concerning reported locations, construction, pumpage, and other relevant details for any documented water supply wells in the Site vicinity and the generally downgradient area;

- Vertical profile groundwater sampling will be conducted at multiple offsite locations (presently-proposed locations are shown as open pink circles on Figure 3.1.3 and may be modified based on the onsite data). These locations were generally selected to be downgradient of areas where PFAS impacts were previously identified in Site groundwater during the SC and near where PFAS impacts were identified during SCDHS groundwater sampling events described in Section 2.1.1. The proposed locations may be modified, with NYSDEC concurrence, based on the onsite groundwater sampling and flow direction results. Groundwater samples will be collected at several depths in each profile (referenced relative to grade and the water table) to characterize the vertical extent of impacts and the results will be used to confirm the locations and depths for permanent monitoring wells; and
- A network of multi-level groundwater monitoring wells will be installed offsite. The additional groundwater data to be obtained during the offsite vertical profile groundwater sampling will be used, together with the existing groundwater flow direction information from the SCDHS, to determine the final number and locations of wells and their depth intervals, with NYSDEC concurrence. In general, these wells will be located to evaluate the nature and extent of Site-related PFAS impacts in groundwater downgradient of the Site. The offsite groundwater lateral and vertical flow directions will also be evaluated at multiple depths. Groundwater sampling will be performed at these wells to further evaluate offsite groundwater conditions that may be related to the Site.

3.1.3 Conceptual Site Model and Exposure Assessment

- Additional information to be obtained during the RI will be used to update the preliminary CSM presented in Section 2.4, including the contaminants of potential concern, potential sources of contamination, potentially affected media (soil, groundwater, and soil vapor), and transport and exposure pathways that could result in potential exposures; and
- A Qualitative Human Health Exposure Assessment will be performed, as described in DER-10, to identify the areas and chemicals of concern, actual or potential exposure pathways, potentially exposed receptors, and how any unacceptable exposures might be eliminated/mitigated. This Exposure Assessment will consider the data obtained during the SC and RI, including the updated CSM.



3.2 Sampling Procedures

The procedures for each type of sampling shown on Figures 3.1.1 through 3.1.3 are described below. Quality assurance/quality control (QA/QC) procedures are presented in Section 4. Table 3.2.1 summarizes the type and purpose of sampling to be performed in each area and the types of analyses to be conducted. More detailed information concerning sample analysis is provided in the Quality Assurance Project Plan (QAPP) presented in Section 5.

Prior to any intrusive work, the One Call service will be contacted to mark the utilities on the public streets adjoining proposed sampling locations. In addition, prior to the start of intrusive activities a subsurface utility markout will be performed at all proposed soil boring, vertical profile, and monitoring well locations that are not located adjoining public streets. Any utilities or other subsurface obstructions identified will be marked on the ground surface. The markings will be reviewed by the QEP and drilling personnel to evaluate the potential presence of subsurface utilities in the work areas and sampling locations will be adjusted as needed to avoid obstructions.

In addition to the utility markout, road-opening permits and/or access agreements will be sought as needed to facilitate sampling at locations adjacent to roadways or on private properties. At present, none of the proposed sampling locations are on private properties and all of the proposed sampling locations along roadways are adjacent to Town-owned roads, which is expected to facilitate obtaining road-opening permits. In the event that samples are required to be obtained adjacent to roads maintained by the NYSDOT or Suffolk County, then road-opening permits will be sought from these agencies. In the event that samples are required to be obtained from private properties, then access agreements will be sought from the affected property owners.

It should be noted that due to the prevalence of PFAS in consumer products, laboratoryrecommended quality assurance protocols will be followed during all investigation and sampling efforts to reduce the potential for field contamination. Some of these protocols will include prohibiting the use of certain personal care products by field personnel during field activities and the use of certain common field equipment. These prohibitions will apply to all field personnel, including observers who may be present.

Soil Sampling

Soil borings will be performed at the onsite locations utilizing hand-operated and direct-push sampling equipment. The soil borings will each be performed through any paving materials that may be present and into the underlying soil to the targeted depth for each location. If visibly-impacted material is encountered in a boring, then that boring will be extended through the visibly-impacted material and into underlying visibly-clean materials. The soil samples from each boring will be obtained continuously, visually examined, screened by an environmental professional with a calibrated photoionization detector (PID), and classified using the Unified Soil Classification System (USCS). The soil observations will be recorded on boring logs and the boring locations will be identified using a global positioning system (GPS).



TABLE 3.2.1 REMEDIAL INVESTIGATION SAMPLING RATIONALE EAST HAMPTON AIRPORT SITE WAINSCOTT, NEW YORK

Sample Area	Nature of Concern	Soil Samples for PFAS - Rationale	Groundwater Samples for PFAS - Rationale	Soil Samples for NYSDEC DER-10 parameters and 1,4- dioxane*	Groundwater Samples for NYSDEC DER-10 parameters and 1,4- dioxane*	Soil Samples (Other)	Other Samples
North End of Hedges Lane - 1990s plane crash site	Potential use of AFFF	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 4 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	One vertical profile to the SE for PFAS. Additional profiles and/or wells if needed for delineation.	None	None	None	None
North Field Area - 1995 plane crash and 2008 mass casualty drill.	AFFF use reported. Soil and groundwater PFAS impacts identified during SC.	Screening Soil Samples (0 to 0.5, 1 to 2 feet) at 3 locations for PFAS lateral delineation. Vertical delineation samples (0 to 0.5, 1 to 2, 8 to 10, and 20 to 30 feet) at EH-B for PFAS. Additional samples for PFAS delineation to GW protection criteria as needed.	Six vertical profiles to delineate PFAS. Additional profiles if needed for delineation. Anticipate 3 multi-level wells for upgradient, source area and downgradient monitoring for PFAS.	Two soil samples at 0 to 0.5 feet, one each from B1 and B2	Two groundwater samples at water table. Collected from monitoring wells EH-B and W3.	None	None
Airport Parking Lot - 1997 mass casualty drill	AFFF use reported. Groundwater PFAS impacts identified during SC.	Additional Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 3 locations) for PFAS due to soil disturbance/paving after drill, additional samples for delineation if PFAS detected above GW protection criteria	Five vertical profiles to delineate PFAS and 3 downgradient (compliance point) vertical profiles. Additional profiles if needed for delineation. Anticipate 2 multi-level wells for source area and downgradient monitoring and 2 multi-level wells for compliance monitoring.	None	Three groundwater samples at water table. Collected from monitoring wells EH-16, W6 and W7.	Three stormwater drain structures for SCDHS parameters and PFAS	None
Runways 16 and 22 intersection - 1997 plane crash site	Foam use for fire prevention reported	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 4 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	One vertical profile to the SE for PFAS. Additional profiles and/or wells if needed for delineation.	None	None	None	None
Runway 10, east of Runway 16/34 - 1998 plane crash site	EHFD on scene for gas leak and possible fire. Potential use of AFFF.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 4 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	One vertical profile to the SE for PFAS. Additional profiles and/or wells if needed for delineation.	One soil sample at 0 to 0.5 feet from B18	None	None	None
Plane crash and Spill Site, off south end of Runway 16 - 1998	EHFD applied foam to suppress vapors. Potential use of AFFF.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 4 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	One vertical profile to the SE for PFAS. Additional profiles and/or wells if needed for delineation.	One soil sample at 0 to 0.5 feet from B21	None	None	None
Aircraft Taxiway Fuel Truck Fire - EHFD responded and may have used AFFF.	Potential use of AFFF. Stormwater runoff area. PFAS not identified in soil below pavement, low levels of PFAS in groundwater during SC.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 1 unpaved location) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	None	One soil sample at 0 to 0.5 feet from B8	One groundwater sample at water table. Collected from monitoring well EH-A.	None	None
Aircraft/deer collision on Runway 10, east of former Runway 4/22	EHFD responded due to fuel leak and may have used AFFF.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 4 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	One vertical profile to the SE for PFAS. Additional profiles and/or wells if needed for delineation.	One soil sample at 0 to 0.5 feet from B58	None	None	None
Northeast Woods plane crash site, east of Daniels Hole Road.	Foam use reported, crash location not clear. Low-level PFAS impacts in soil and groundwater. No sampling near road where foam was observed.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 3 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	Up to 3 vertical profiles for PFAS. If soil screening does not identify PFAS above GW protection criteria, reduce vertical profiles to 1. Additional profiles and/or wells if needed for delineation.	None	None	None	None
EHFD Airport Substation (ARFF)	AFFF storage. Wastewater and stormwater discharge structures present. Soil and groundwater PFAS impacts identified during SC.	Screening Soil Samples (0 to 0.5, 1 to 2 feet) at 3 locations for lateral delieation of PFAS. Vertical delineation samples (0 to 0.5, 1 to 2, 8 to 10, and 20 to 30 feet) at EH-19A for PFAS. Additional samples for PFAS delineation to GW protection criteria as needed.	Four vertical profiles to delineate PFAS, including 3 downgradient (compliance point) vertical profiles. Additional profiles if needed for delineation. Anticipate 3 multi-level wells for source area and downgradient compliance monitoring.	Two soil samples at 0 to 0.5 feet, one each from B37 and B38	Two groundwater samples at water table. Collected from monitoring wells EH-19A2 and W12.	One stormwater drain structure and one sanitary leaching structure for SCDHS parameters and PFAS	None
Fire Training Area near ARFF	EHFD training activities reported. Potential use of AFFF. One SC location to SW showed no significant PFAS in soil and some PFAS in groundwater.	Screening Soil Samples (0 to 0.5 feet, 1 to 2 feet at 15 locations) for PFAS, additional samples for delineation if PFAS detected above GW protection criteria	Five vertical profiles for PFAS. Additional profiles and/or wells if needed for delineation.	None	None	None	None
EHFD Training Facility	Fire training activities. Wastewater and stormwater discharge structures present. Soil and groundwater PFAS impacts identified during SC.	Screening Soil Samples (0 to 0.5, 1 to 2 feet) at 10 locations for PFAS. Vertical delineation samples (0 to 0.5, 1 to 2, 8 to 10, and 20 to 30 feet) at EH-1 and EH-19B1 for PFAS. Additional samples for PFAS delineation to GW protection criteria as needed.	Eight vertical profiles to delineate PFAS, including 5 downgradient (compliance point) vertical profiles. Additional profiles if needed for delineation. Anticipate 3 multi-level wells for downgradient compliance monitoring.	Two soil samples at 0 to 0.5 feet, one each from B29 and B30	Two groundwater samples at water table. Collected from monitoring wells EH-1 and W9.	Two stormwater drain structures and one sanitary leaching structure for SCDHS parameters and PFAS	None
Sub-slab soil vapor	Potential vapor intrusion by VOCs of concern	None	None	None	None	None	Eight sub-slab vapo samples for TO-15 VOCs
Offsite Groundwater	PFAS identified at multiple downgradient locations by SCDHS and NYSDEC	None	19 vertical profiles to delineate PFAS downgradient of the Site. Locations selected based on existing data and to fill in data gaps. WPFC-4 to be resampled to confirm prior results. Additional profiles if needed for delineation. Anticipate several multi-level wells for downgradient monitoring.	None	None	None	None

Notes:

PFAS = per- and polyfluoroalkyl substances SC = Site Characterization

NYSDEC = New York State Department of Environmental Conservation

AFFF = Aqueous film-forming foam SCDHS = Suffolk County Department of Health Services VOCs = Volatile organic compounds SPLP = Synthetic Precipitation Leaching Procedure \star = Additional samples may be collected for DER-10 analytes based on field observations.

ARFF = Aircraft Rescue and Firefighting Facility EHFD = East Hampton Fire District/Department



Soil samples will be collected from each boring and submitted for laboratory analysis. This sampling program is primarily intended to evaluate soil for the potential presence of PFAS compounds in areas that were not previously investigated or where lateral delineation of previously-identified impacts is needed (screening soil sampling), and to characterize the vertical distribution of PFAS compounds in the soil column at locations where PFAS impacts were previously identified in soil (vertical characterization soil sampling). For the locations where screening soil sampling is to be conducted, soil sampling will be conducted at each of these locations in the intervals of 0 to 0.5 feet and 1 to 2 feet, with testing of these soils for PFAS compounds. For the locations where soil characterization sampling for vertical delineation is to be performed, soil sampling will be conducted at each of these locations in the intervals of 0 to 0.5 feet, 1 to 2 feet, 8 to 10 feet, and 20 to 30 feet below grade, with testing of the soil for PFAS compounds. These depths were selected so as to confirm the previously-identified impacts (shallow samples), assess the potential presence of PFAS in soil at a more significant depth (8 to 10 feet), and assess whether PFAS impacts in soil may extend to the vicinity of the water table (20 to 30 feet). These depth intervals are intended to provide data at depths that are useful for evaluation of remedial options. In the event that the water table is encountered during the soil sampling process, soil samples will not be obtained at or below the water table interface. In this case, the deepest soil sample will be obtained from the interval above the water table. In the event that the results of the screening soil sampling indicate the presence of PFAS compounds exceeding applicable NYSDEC criteria (protection of groundwater) at a particular location, then additional soil sampling may be conducted to complete the characterization of soil at the affected location.

Soil sampling and analysis will be performed at select locations in accordance with DER-10 and NYSDEC guidance for emerging contaminant 1,4-dioxane sampling (in addition to PFAS). These locations are identified on Figure 3.1.1 and include two locations in the North Field Area, one location next to Runway 10 at the site of a 1998 plane crash with a reported gas leak, one location at a 1998 plane crash and fuel spill site off the south end of Runway 16, one location at the fuel truck fire site, one location next to Runway 10 where an aircraft/deer collision with a resultant fuel leak was reported, two locations at the ARFF facility, and two locations at the Fire Training Facility. These locations were selected due to reports of fuel spills or the nature of activities that are conducted at the facilities. The samples from the 0 to 0.5-foot interval at these locations will be tested for the full DER-10 list and for 1,4-dioxane.

For all soil sampling locations, additional soil samples will be collected to vertically delineate any visible contamination that may result from VOC, SVOC, metals or other contaminants that typically result in visible impacts. If visibly-impacted material is encountered, then at a minimum soil samples will be collected from the most visibly-impacted material and from visibly-unimpacted material below the impacted interval.

The samples to be tested for PFAS will be collected first, before samples for other analyses are collected. The samples retained for VOC analysis will be collected using Method 5035A preservation procedures. Upon completion of sampling, the sample containers for all analyses will be sealed, labeled, managed, transported, and tracked as described in Section 3.3. Sample analysis is also discussed in Section 3.3. The completed borings will be backfilled with soil cuttings (with the exception of the soil from the uppermost interval, which will be managed as described in Section 3.4) and their surface locations will be marked with surveyor's flags and recorded using GPS for future reference.



> Groundwater Vertical Profile Sampling

The proposed onsite and offsite vertical profile samples, which will be used to characterize the PFAS impacts in groundwater, will be obtained by an experienced drilling contractor at the locations generally shown on Figures 3.1.2 and 3.1.3. Prior vertical profile location WPFC-4 will also be sampled. Profile locations may be adjusted in the field as necessary to avoid obstructions and the offsite locations may be adjusted, with NYSDEC concurrence, based on the results of the onsite sampling. An FPM environmental professional will observe the vertical profile sampling and prepare a log to document the sample intervals and observations. The vertical profile locations will be identified using a GPS and marked in the field for future reference.

At each proposed location, decontaminated stainless steel tooling equipped with dedicated disposable high-density polyethylene (HDPE) tubing will be advanced downward to the targeted intervals in sequence, with sampling conducted at each interval prior to proceeding to the next depth interval. Depth intervals will be referenced relative to grade and the water table. At each interval to be sampled, the tooling will be purged of at least three volumes of groundwater and until the produced groundwater is clear (turbidity less than USEPA-recommended 25 NTU), if feasible. The existing tubing at WPFC-4 will be purged similarly. The groundwater quality parameters pH, temperature, oxidation reduction potential (ORP), and conductivity will be measured during the purging process. Sampling forms documenting purging and sampling procedures and measurements will be completed.

Following purging, sampling will be performed. The retrieved samples will be decanted from the HDPE tubing into laboratory-supplied sample containers. Upon completion of sampling, the sample containers will be sealed, labeled, managed, transported, and tracked as recommended by the laboratory and described in Section 3.3. Sample analysis is also discussed in Section 3.3.

Groundwater Monitoring Well Installation and Sampling

The proposed multi-level monitoring wells will be installed by an experienced well installation contractor. Potential onsite well locations are shown on Figure 3.1.1; the final well locations and depth intervals will be selected based on groundwater flow direction information and the results of the vertical profiles. Offsite well locations will be selected based on the results of the offsite vertical profiles and the onsite groundwater results. Well locations may be adjusted in the field as necessary to avoid obstructions. An FPM environmental professional will observe each well installation and prepare a boring log/well installation diagram to document the well construction. The monitoring well locations will be identified using a GPS.

To be consistent with the construction of the existing onsite monitoring wells, each multi-level well will include one interval of a two-inch diameter 0.01-inch machine-slotted PVC screen approximately 10 feet long installed to a depth of approximately 6 to 8 feet into the water table. The annulus will be backfilled with Morie #0 well gravel, or equivalent, to approximately two feet above the top of the screen, with an overlying one to two-foot bentonite seal, and the balance will be backfilled with bentonite or cement bentonite grout. The deeper intervals will be constructed using the same materials, with the exceptions that the screens will be five feet long. The top of each well casing will be capped with an expansion-fit locking well cap and the casing will be protected with a bolt-down flush-mounted manhole cover set in concrete. In certain locations, if needed to protect the wells from damage, the casing will be protected with a lockable steel standpipe set in concrete. Protective bollards may be installed around each manhole/standpipe, as needed, to clearly mark each well's location and to protect the surface completions.



Following installation, the wells will be developed by pumping and surging until the produced groundwater is clear (turbidity less than USEPA-recommended 25 NTU) and the groundwater quality parameters pH, temperature, ORP, and conductivity vary by less than 10 percent between removals of successive casing volumes of groundwater. The measurements obtained during well development will be recorded.

Following well installation, a survey will be performed in which the relative elevation of the top of the PVC casing for each well will be determined to the nearest 0.01 foot. The static water level for each of the Site wells will be measured and used in conjunction with the surveyed well casing relative elevations to calculate the Site-specific groundwater flow directions in the horizontal and vertical directions.

Groundwater sampling will be performed at least one week after the wells are installed and the groundwater flow direction determined to allow for groundwater conditions in proximity to the wells to stabilize. Purging and sampling will be in accordance with laboratory-recommended procedures for all analytes. No field equipment containing Teflon or low-density polyethylene parts will be used; the field equipment is anticipated to include stainless steel and HDPE. At each well the depth to the static water level and depth of the well will be measured with an interface probe. The potential presence of non-aqueous-phase liquid (NAPL) will also be assessed. Then a decontaminated low-flow pump equipped with dedicated HDPE tubing will be used to purge the well until the turbidity of the produced water is less than 25 NTU or until five well volumes of water have been purged. Following the removal of each well volume, field parameters, including pH, turbidity, specific conductivity, ORP, and temperature, will be monitored and recorded. When all stability parameters vary by less than 10 percent between the removal of successive well volumes, the well will be sampled. Well sampling forms documenting the well purging and sampling procedures and measurements will be completed.

Samples for PFAS will be obtained before any other sampling is performed. PFAS samples will be obtained using only dedicated disposable HDPE tubing or HDPE bailers suspended from dedicated cotton or polypropylene lines. The retrieved samples will be decanted into laboratory-supplied sample containers. Upon completion of sampling, the sample containers will be sealed, labeled, managed, transported, and tracked as described in Section 3.3. Sample analysis is also discussed in Section 3.3.

Following the completion of PFAS sampling, and after those samples have been properly secured, the select wells targeted for the additional analyses (DER-10 analytes and 1,4-dioxane) will each be sampled first for 1,4-dioxane, followed by sampling for the other analyte groups. These wells are identified on Figure 3.1.2 and include two wells in and downgradient of the North Field Area, three wells in and downgradient of the airport parking lot (also downgradient of the hangar area and fuel farm), one well at the fuel truck fire site, two wells at and downgradient of the ARFF facility (also downgradient of the fire training area), and two wells at the Fire Training Facility. These wells were selected due to their locations in and/or downgradient of actively used areas, including the hangars, fuel farm, ARFF, Fire Training Facility, fire training area, terminal, and parking areas, where there is a greater potential for groundwater impacts to be present. In the event that a multi-level well is present at any of these locations, the samples for full DER-10 list and 1,4-dioxane testing will be obtained from the water table level. Samples for all analyses except PFAS may be obtained directly from the pump or using dedicated disposable polyethylene bailers suspended from dedicated cotton or polypropylene lines. These samples will also be obtained, containerized, labeled and managed under chain of custody procedures and in accordance with laboratory recommendations, as described in Section 3.3.



Soil Vapor Sampling

Sub-slab soil vapor sampling will be conducted at select onsite building locations as shown on Figure 3.1.2; the sample locations will be identified in the field using a GPS. At each location a boring will be advanced through the lowest floor of the building and approximately 6 inches into the underlying soil and a temporary vapor sampling point will be installed. Each sampling point will consist of a stainless-steel vapor implant connected to sufficient inert tubing so as to bring the tubing above the top of the floor. Each implant will be surrounded with inert porous backfill. The boring above the backfill and around the tubing will be backfilled with a bentonite slurry so as to seal the implant zone from the atmosphere.

Following implant installation, one to three volumes of air will be purged through the implant and tubing at a rate of less than 0.2 liters per minute using an air pump to ensure that a representative sample is obtained. To confirm the integrity of the bentonite seal a helium tracer gas will be confined over the surface seal and the potential presence of helium in the tubing will be checked with a helium meter. Following purging and the seal integrity check, the soil vapor sample will be collected into a laboratory-supplied Summa canister equipped with a calibrated flow controller that is set for an 8-hour sample period and so as not to exceed a flow of 0.2 liters per minute. FPM will observe the flow controllers and seal the canisters while some vacuum remains. Upon completion of sampling, each canister will be sealed, labeled, managed, transported, and tracked as described in Section 3.3. Sample analysis is also discussed in Section 3.3. Following the completion of sampling, the tubing and implants will be removed and the floor penetrations will be sealed in kind with the surrounding materials.

3.3 Sample Management and Analyses

Each sample container will be labeled using a ball-point pen, and the labeled containers containing soil or groundwater samples will be placed in a cooler with ice (blue ice packs will not be used) to depress the sample temperature. Samples for PFAS testing will be placed into individual sealed Zip-lock bags and stored in a separate cooler from all other samples. The filled labeled Summa canisters will be secured in shipping containers. A chain of custody form will be completed and kept with each of the coolers and shipping containers to document the sequence of sample possession. At the end of each day, the filled coolers and shipping containers will be transported by FPM or overnight courier to the analytical laboratory.

The anticipated analytical laboratory for all soil, groundwater, and soil vapor samples is Alpha Analytical of Westborough, Massachusetts, which is NYSDOH ELAP-certified for the proposed analyses.

All of the soil and groundwater samples will be analyzed for PFAS by LC-MS/MS using the modified EPA Method 537.1 with reporting limits less than or equal to 2 nanograms per liter (ng/l, or parts per trillion) in water and 0.5 ug/kg (parts per billion) in soil.

Select soil and groundwater samples will also be tested for Target Compound List (TCL) VOCs plus 10 tentatively-identified compounds (TICs) using EPA Method 8260C; TCL SVOCs plus 20 TICs using Method 8270D, Target Analyte List (TAL) metals using Method 6010C, mercury using Methods 7471A or 7470A, total cyanide using Methods 9010C/9012B, PCBs using Method 8082A, pesticides using Method 8081B, and 1,4-dioxane using Method 8270D and a mass spectrometer in selective ion monitoring (SIM) mode. The detection limit for 1,4-dioxane will be no higher than 0.28 micrograms per liter (μ g/l, or parts per billion). In the event that the turbidity



of a groundwater sample to be tested for metals is not below 25 NTU, then a separate aliquot of that groundwater sample will be obtained, filtered to remove turbidity, and analyzed for TAL metals using Method 6010C and mercury using Methods 7471A or 7470A.

The sub-slab soil vapor samples will be analyzed for VOCs using Method TO-15.

The analytical methods used for all testing will be as per NYS Analytical Services Protocol (ASP) with Category B deliverables. Electronic data deliverables (EDDs) will be prepared and uploaded into the NYSDEC's environmental information management system.

Additional details concerning sampling, analysis, and QA/QC is provided in the Quality Assurance Project Plan (QAPP) presented in Section 5.

3.4 Management of Investigation-Derived Waste

3.4.1 Soil Cuttings and Groundwater

Soil cuttings may be generated during the onsite and offsite work. Soil cuttings generated from soil borings will be field screened by the environmental professional for indications of potential contamination. If no indications of potential contamination are noted, then these cuttings will be used to backfill the borings from which they originated, with the exception of soil cuttings from the uppermost interval of each boring. For soil cuttings that originate from monitoring well installations, or are from the uppermost interval of a soil boring, or in the event that excess soil cuttings are generated from soil borings, or visibly-impacted soil cuttings are identified, then they will be containerized and managed in accordance with DER-10, Section 3.3(e).

All groundwater generated during well installation, development and purging will be containerized. The containers will be labeled as to their origin and staged onsite in a designated area. The groundwater generated during well development and purging will be examined by the QEP for visual and olfactory indications of potential contamination and any groundwater exhibiting indications of potential contamination will be containerized separately. FPM will review the groundwater sample results to evaluate if any constituents are found in excess of the NYSDEC Standards and at levels of concern. Groundwater exhibiting visible contamination or with constituents in excess of NYSDEC Standards and at levels of concern will be disposed offsite, as described below. Groundwater that does not exhibit visible contamination and does not contain constituents at levels of concern will be discharged to the ground onsite in a source area in a manner that does not result in surface water runoff.

3.4.2 Waste Disposal

Any soil cuttings that are generated and cannot be managed onsite in accordance with DER-10 or that exhibit indications of potential contamination, and any containerized groundwater that cannot be discharged onsite will be transported by a licensed waste transporter and properly disposed offsite at permitted waste disposal facilities. Waste transport and disposal will be documented with manifests, copies of which will be included in the RI Report. Dedicated disposable investigation equipment (gloves, etc.) will be containerized and properly disposed offsite as solid waste.



3.5 Conceptual Site Model and Exposure Assessment

The preliminary CSM presented in Section 2.4 will be refined during the RI as additional data become available. The CSM will identify potential sources of contamination, the types of contaminants and affected media, contaminant release mechanisms and potential migration pathways. In particular, the CSM will evaluate the potential Site-related locations of source area(s) for both onsite and offsite groundwater impacts considering the onsite and offsite history, the types of PFAS compounds typically associated with the materials used and/or discharged in the potential source areas, groundwater flow directions and factors that may affect groundwater flow, the vertical and lateral extents of identified groundwater plume(s), the compositions of the plume(s), and the relationship between identified soil impacts and groundwater impacts. The CSM will also include an evaluation of the potential relationship between the identified onsite and offsite and offsite groundwater impacts. The results of the CSM will be used in the development of a human health exposure assessment for the Site-related impacts.

A qualitative human health exposure assessment will be performed during the RI in accordance NYSDEC DER-10 Section 3.3(c)4 to identify the areas and chemicals of concern, actual or potential exposure pathways, potentially exposed receptors, and how any unacceptable exposures might be eliminated/mitigated. This assessment will consider the reasonably anticipated future land use at the Site and reasonably anticipated future groundwater use. The five exposure pathway elements that will be examined include:

- Descriptions of the contaminants and affected media;
- An explanation of the contaminant release and transport mechanisms to the potentially exposed population;
- Identification of potential exposure points where the potential for human contact with contaminated media may occur;
- A description of routes of exposure (i.e., ingestion, inhalation, dermal contact); and
- A characterization of the receptor population that may be exposed to contaminants at a point of exposure.

3.6 Fish and Wildlife Resources Impact Analysis

The potential need for a fish and wildlife resources impact analysis will be evaluated during the RI. Based on the existing information, fish and wildlife resources are not anticipated to be affected by the PFAS impacts identified onsite. The Site is located in a commercial/industrial area that is used as an airport and for commercial and industrial activities. The PFAS impacts have been identified in groundwater at depth beneath the Site and in soil in limited areas of the Site where fire-fighting chemicals have been used and/or stored. The locations where PFAS impacts have been identified are not anticipated to be habitats for fish or wildlife ecological resources. The additional data obtained during the RI will be evaluated and a recommendation will be made as to whether a fish and wildlife assessment is necessary.



3.7 Reporting and Schedule

The proposed schedule is presented in Figure 3.7.1. The NYSDEC will be notified at least 10 working days prior to the anticipated start of the RI fieldwork and at key points during the RI field activities. The NYSDEC will also be notified of any changes to the RI fieldwork schedule.

The schedule shows that fieldwork will proceed in a phased manner, with results from each phase to be assessed and used to modify the proposed locations or scope of work in subsequent phases as needed. NYSDEC concurrence will be obtained for proposed location and scope modifications. Please note that the schedule is likely to be modified due to anticipated scope changes, NYSDEC reviews, and other factors. The RI/FS schedule will be updated as needed.

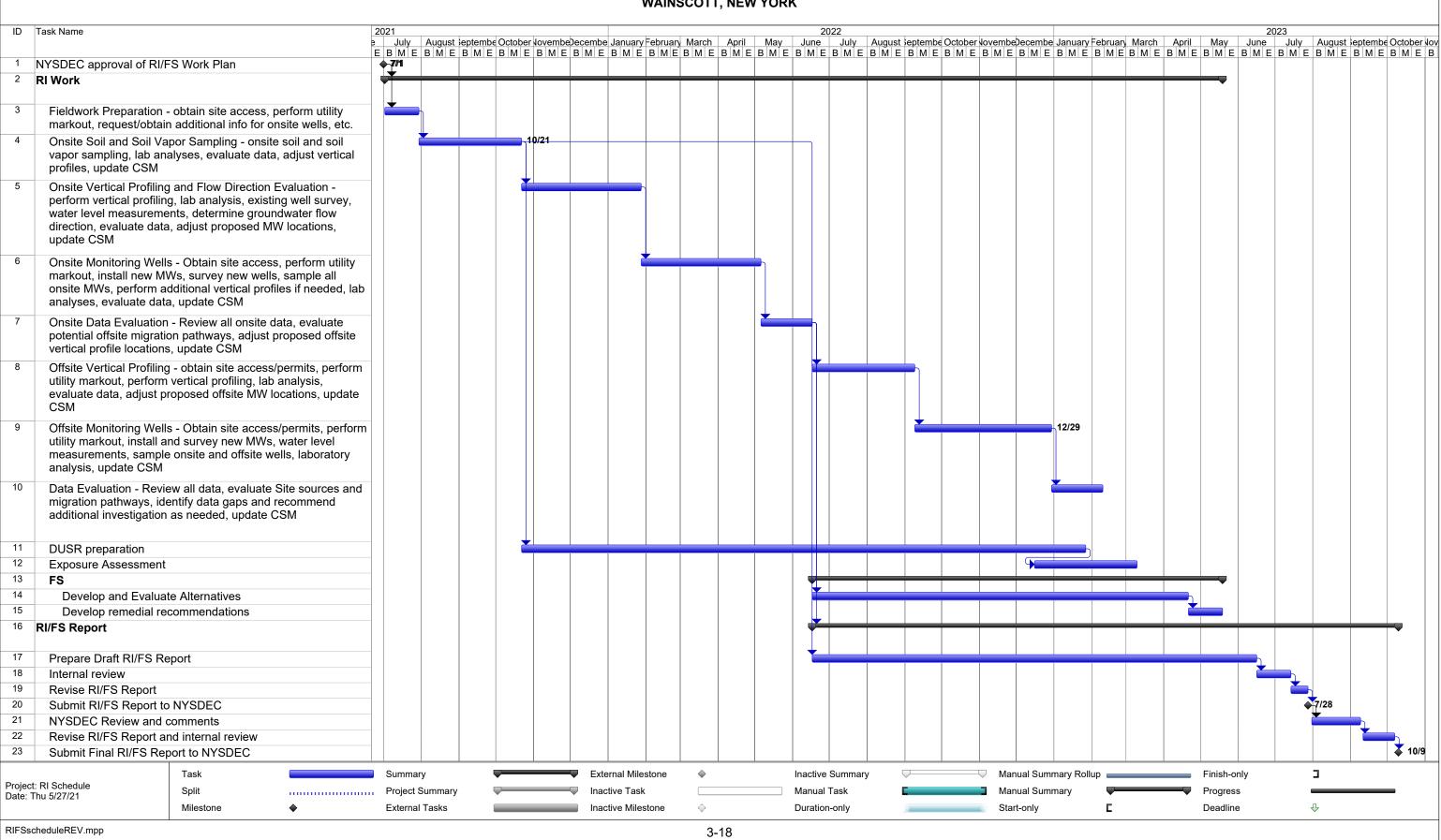
Following the completion of the RI sampling activities, the receipt of all sample results, and updating of the CSM and preparation of the qualitative human health exposure assessment, FPM will prepare an RI Report. The RI Report will be prepared in accordance with NYSDEC DER-10 Section 3.14 and will include an updated site plan, a summary of the work performed, the resulting chemical analytical data, an interpretation of the data, the CSM, the qualitative exposure assessment, and conclusions. Copies of all field logs and the Data Usability Summary Reports (DUSRs) will be provided in appendices to the Report. Copies of the complete laboratory analytical packages will be provided separately from the Report as an electronic submission, in accordance with DER-10 Section 3.14(b).

In accordance with 6 NYCRR Part 375-2, the soil data for most of the analytes will be evaluated with respect to the NYSDEC SCOs for unrestricted use (Table 375-6(a)). However, as the Site use is commercial and industrial, the soil data will also be compared to the NYSDEC SCOs for commercial and industrial uses (Table 375-6(b)). PFAS results will be evaluated in accordance with the NYSDEC's *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)* dated October 2020 and/or more current NYSDEC guidance, if available. The soil vapor data will be evaluated with respect to NYSDOH soil vapor intrusion guidance with current updates. Groundwater results will be compared to the NYSDEC Class GA Ambient Water Quality Standards and other applicable criteria. A further discussion of standards, criteria and guidance (SCGs) is included in Section 4.

Monthly progress reports will be prepared and submitted to the NYSDEC and NYSDOH during the above-described RI work. The monthly progress reports will include information regarding activities conducted during the reporting period, activities planned for the next reporting period, a summary of any sampling results and community monitoring results, any changes to the schedule, any problems encountered, and other pertinent project information.



FIGURE 3.7.1 RI/FS SCHEDULE EAST HAMPTON AIRPORT SITE WAINSCOTT, NEW YORK



SECTION 4.0 FEASIBILITY STUDY WORK PLAN

In the event that the RI results indicate that remedial measures may be necessary, then a Feasibility Study (FS) will be conducted to evaluate potential remedial alternatives. In general, an FS will be indicated if significant Site-related source material is identified, if soil vapors requiring mitigation are detected, or if Site-related groundwater impacts requiring remediation are identified. The purpose of the FS is to identify and evaluate the most appropriate remedial action(s) for the Site pursuant to guidance provided in NYSDEC DER-10 and 6 NYCRR Subpart 375. Any remedial measures shall be approved by the NYSDEC prior to implementation.

The remedial goal for remedial actions proposed pursuant to this guidance will be the restoration of the Site to pre-disposal/pre-release conditions, to the extent feasible. At a minimum, a proposed remedy will eliminate or mitigate all significant threats to public health and the environment presented by the contaminants at the Site through the proper application of scientific and engineering principles.

4.1 Remedial Action Objectives

Remedial Action Objectives (RAOs) are medium-specific objectives for the protection of public health and the environment and will be developed in the FS based on contaminant-specific standards, criteria and guidance (SCGs). Prior to proposing a remedy at this Site, the RAOs for the Site will first be established by:

- Identifying all contaminants exceeding applicable SCGs and the environmental media impacted by the contaminants;
- Identifying applicable SCGs taking into consideration the current and future land use for the Site:
- Identifying all actual or potential public health and/or environmental exposures resulting from the contaminants in environmental media at, or impacted by, the Site; and
- Identifying any proposed site-specific cleanup levels developed as set forth in 6 NYCRR 375-6.9 and other NYSDEC and NYSDOH guidance documents.

Remedial alternatives will be developed and a remedy proposed that removes the contamination and/or reduces or eliminates exposure to the contaminants above the SCGs. This will include removal of the source of the contamination to the extent technically and practically feasible.

Proposed remedial actions will be developed based on the following criteria:

 <u>Overall Protection of Public Health and the Environment</u>. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, engineering controls or institutional controls. The remedy's ability to achieve each of the RAOs will be evaluated;



- <u>Compliance with Standards, Criteria, and Guidance (SCGs)</u>. Compliance with SCGs addresses whether or not a remedy will meet applicable environmental laws, regulations, standards, and guidance. All SCGs for the Site will be listed along with a discussion of whether or not the remedy will achieve compliance. For those SCGs that will not be met, a discussion and evaluation of the impacts of each will be provided;
- <u>Long-Term Effectiveness and Permanence</u>. These criteria evaluate the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain onsite after the selected remedy has been implemented, the following items will be evaluated:
 - The magnitude of the remaining risks (i.e. whether there will be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals);
 - ♦ The adequacy of the engineering and institutional controls intended to limit the risk;
 - \diamond The reliability of these controls, and;
 - \diamond The ability of the remedy to continue to meet RAOs in the future.
- <u>Reduction of Toxicity, Mobility or Volume with Treatment</u>. The remedy's ability to reduce the toxicity, mobility or volume of Site contamination will be evaluated. Preference will be given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site;
- <u>Short-Term Effectiveness</u>. The potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during the construction and/or implementation will be evaluated. A discussion of how the identified adverse impacts and health risks to the community or workers at the site will be controlled, and the effectiveness of the controls, will be presented. A discussion of engineering controls that will be used to mitigate short-term impacts (i.e. dust control measures) will also be provided. The length of time needed to achieve the remedial objectives will also be estimated;
- <u>Implementability</u>. The technical and administrative feasibility of implementing the remedy will be evaluated. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material will be evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.;
- <u>Cost</u>. Capital, operation, maintenance and monitoring costs will be estimated for the remedy and presented on a present worth basis;
- <u>Community Acceptance</u>. A summary of the public participation program that was followed for the project will be provided. The public's comments, concerns and overall perception of the remedy will be evaluated in a format that responds to all questions that are raised (i.e. responsiveness summary).



4.2 Development and Evaluation of Alternatives

The following are the main steps in the decision-making process for remedy selection and will be presented in the FS:

- 1. Establish the remedial goals for the Site;
- 2. Establish RAOs for the Site;
- 3. Identify general response actions, including an estimate of the volumes/areas of contaminated media. General response actions include non-technology specific categories such as treatment, containment, excavation, extraction, disposal, institutional controls or a combination of these. Where presumptive remedies are available to address the contamination identified, they will be strongly considered. If presumptive remedies are applicable to the identified contamination, pursuant to current EPA or DER guidance the remedy selection process may skip this step (with the exception of estimating volumes/areas of contaminated media) and proceed directly to step 5: assembly of remedial technologies into site-wide alternatives. All applicable general response actions will be developed on a medium-specific basis, similar to the development of RAOs. For each medium addressed, the volumes or areas to be remediated will be identified and characterized with respect to requirements for protectiveness, taking into account the chemical and geologic characterization of the site. During this step, technologies which are not appropriate for the Site due to site-specific factors or constraints will be eliminated from further consideration, with a discussion of the site-specific reasons as appropriate.
- 4. *Identify and Screen Technologies.* In this step of the process, technology types (i.e. general categories such as chemical treatment, enhanced biodegradation, thermal destruction, immobilization, capping, dewatering, etc.) appropriate to the site-specific conditions and contamination will be identified for each of the general response actions identified. These technologies will then be screened on a medium-specific basis to identify those that are technically implementable for the Site and can meet the Site RAOs. Additional information (i.e. site characterization data, pilot tests) may be required to adequately evaluate alternatives and technologies being considered. Those that are not technically implementable will be dropped from further consideration. Those that remain will be used in the next step to assemble alternatives.
- 5. Assemble technologies into site-wide alternative(s). In this step, the potential technologies will be assembled into media-specific or Site-wide remedial alternatives. The identified alternatives will be developed and defined to a level of detail that will allow for the estimation of the alternative's cost and for the subsequent detailed analysis of alternatives. Each alternative will be defined with respect to size and configuration of the process options, time for remediation, spatial requirements, options for disposal, substantive technical permit requirements, limitations or other factors necessary to evaluate the alternatives that will be evaluated include a "no-action" alternative and an alternative that would restore the site to "pre-disposal conditions." The soil component of the remedial program will consider the SCOs for unrestricted use as representative of pre-disposal conditions. Other alternatives to be considered when evaluating remedial alternatives include those based on current, intended and reasonably-anticipated future use of the Site, removal of source areas of contamination, and containment of contamination.



- 6. Analyze the alternative(s) pursuant to the criteria in Section 4.1. In this step, each of the identified alternatives will be evaluated against the first seven evaluation criteria noted in Section 4.1. The eighth criteria, Community Acceptance of the remedy, will be evaluated after the public comment period, if applicable.
- 7. *Recommend a remedy for the Site.* This final step in the process will identify the recommended remedy and summarize the reasons why, with reference to the criteria in Section 4.1, it is the best alternative for the remediation of the Site.

4.3 FS Report

An FS Report will be prepared to document the development and evaluation of the options for remedial action at the Site. The FS Report will emphasize data analysis and will generally be performed concurrently and in an interactive fashion with the RI and using data gathered during and prior to the RI. The RI data will be used to define the objectives of the remediation, to develop remedial action alternatives, and to undertake an initial screening and detailed analysis of the alternatives. The FS Report will identify the goal of the remedial program and develop the RAOs for the Site as detailed above. The FS will also document and provide sufficient detail to support the decision-making process for the selection of a remedy for each of the steps outlined in Section 4.2, steps 1-7. The FS Report will include the following sections:

- Executive summary
- Purpose
- Site description and history
- Summary of RI and exposure/risk assessment
- Remedial goals and remedial action objectives
- General response actions
- Identification and screening of technologies
- Development and analysis of alternatives
 - Assemble technologies into alternatives
 - Evaluation of alternatives with respect to the first seven criteria.
- Recommended remedy and why it was selected

A Professional Engineer (PE) licensed to practice in New York State will sign and seal the completed FS Report.

The FS Report will be initiated shortly before the RI Report is submitted to the NYSDEC such that any comments the NYSDEC may have on the RI may be incorporated in the FS before it is finalized. A schedule for the FS is included on Figure 3.7.1.



SECTION 5.0 QUALITY ASSURANCE PROJECT PLAN

This Quality Assurance Project Plan (QAPP) is applicable to all RI activities for this Site. The RI work is intended to evaluate the nature and extent of contamination in all media at and in proximity to this Site, with emphasis on delineating the nature and extent of Site-related PFAS impacts previously identified in onsite soil and groundwater and offsite groundwater. Further evaluations will be performed in suspect source areas, including the North Field plane crash and training areas, the Airport Parking Lot mass casualty training area, the Northwest Woods plane crash site, the Fire Training Facility burn training area, and the ARFF Station.

The RI will be performed by FPM on behalf of the Town of East Hampton. The FPM project manager is Ben Cancemi, PG and the Quality Assurance Officer (QAO) is Stephanie O. Davis, PG, as identified on Table 3.1. Resumes for FPM project personnel are included in Appendix B.

Sampling procedures are presented in Section 3.2 and sample management is presented in Section 3.3 of this RI/FS Work Plan. Site plans showing the existing sample locations and proposed RI sample locations are presented on Figures 3.1.1 through 3.1.3. Table 3.2.1 (previously presented) summarizes the type and purpose of sampling to be performed in each area and the types of analyses to be conducted. Table 5.1 presents a summary of the analytical methods and the QA/QC sample program. QA/QC samples are further discussed below.

5.1 Data Quality Objectives

The Data Quality Objectives (DQOs) will be applicable to all data-gathering activities at the Site. DQOs will be incorporated into sampling, analysis, and quality assurance tasks associated with RI activities. A QEP will oversee all RI activities.

The data users for this project are FPM, the NYSDEC, and the NYSDOH. The Site owner will also be provided with the data. No other data users are anticipated. The collected data are intended to further evaluate the nature and extent of contaminants in soil, groundwater, and soil vapor on and in proximity to the Site and in offsite groundwater.

For this project, field screening will be performed during sampling activities. Field screening includes monitoring for organic vapors in the soil cuttings as they are generated and in the air in the work zone using a Photovac MicroTIP PID (or equivalent) and visual observations of soil and groundwater characteristics. All readings and observations will be recorded by the FPM QEP in his or her field notebook.

5.2 Standards, Criteria, and Guidance

The following standards, criteria, and guidance (SCGs) have been identified for the Site:

- NYSDEC DER-10;
- The NYSDEC Class GA Ambient Water Quality Standards (Standards), which are used to evaluate the groundwater chemical analytical results;



TABLE 5.1 **REMEDIAL INVESTIGATION SAMPLING MATRIX** EAST HAMPTON AIRPORT SITE WAINSCOTT, NEW YORK

Induction Induces	Environmental Sample Type	Number of Locations	Samples per Location	Total Number of Samples (excluding QA/QC)	Number of Select Samples	Sample Depths (feet below grade or water table)	Preparation and Analyses - All	Additional Analyses - Select Samples	Preparation and Analysis, Select Samples	Sample Bottles/Preservation
$ \begin{array}{ $	borings for screening and	58	2	116	11	0 to 0.5, 1 to 2	537 modified with isotope dilution -	TAL Metals, TCL pesticides, PCBs, 1,4-	pesticides, and PCBs (Methods 5030B/8260C, 3541 and 3510C/8270D, 3050B/6010B, 3546/8081B/8082A,	Two Glass VOA vials with water One 2 oz. CWM glass, Two 8 oz. CWM glass, For PFAS: Two 8 oz. and one 2 oz.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	existing borings for	4	4	16	0		537 modified with isotope dilution -	-	-	Two 8 oz. and one 2 oz. HDPE WM
Construction Construction<		8	1	8	0	0 to 0.5	(Methods 5030B/8260C, 3541 and 3510C/8270D, 3050B/6010B, and 7470A/7241A), PFAS TAL (Method 537 modified with isotope dilution - LCMSMS-	-	-	Two Glass VOA vials with water One 2 oz. CWM glass, Two 8 oz. CWM glass, For PFAS: Two 8 oz. and one 2 oz.
Circumstants Samples- Oxele (wild) 22 10.3 54 10 15.8 weiler (wild) Prior (a, (wild), wild) Prior (a		40	6	240	0	25 to 30, 35 to 40, 45 to 50, 55	isotope dilution - LCMSMS-isotope	-	-	Two 250 ml. HDPE WM
Constructed: 20 6 120 0 425 50,30 PP-56,14, (united construction for the properties of the properies of the properties of the properity of the properies of the prop		22	1 to 3	54	10	well	isotope dilution - LCMSMS-isotope	TAL Metals, TCL pesticides, PCBs, 1,4-	pesticides, and PCBs (Methods 5030B/8260C, 3541 and 3510C/8270D, 3050B/6010B, 3546/8081B/8082A,	Two 40 ml glass VOA vials with HCl, three 1- liter amber glass, 500 ml plastic with HNO3, two 1-liter amber glass, teflon-lined, two 250 ml. HDPE WM
Concentions: Data Networks TBD 3 TBD 0 Stange PFAS TALL (Method S37 modified with income dilution) Image: Stange Two 20 mit MPE With more dilution) Sol Vapor Samples 8 1 8 0 - VOC6s (Method TO 15) - - Sample Bottleap/Fisservation OA/GC Sampler Type Number/Frequency Matrix Sample Depths (rest below grade) Preparation and Analysis Sample Bottleap/Fisservation Equipment banks One per due during sol cr groundwater sampled Lab Water - - - Sample Depths (rest below grade) FFAS TALL One per due during sol cr groundwater sampled Lab Water - <t< td=""><td></td><td>20</td><td>6</td><td>120</td><td>0</td><td>25 to 30, 35 to 40, 45 to 50, 55</td><td>isotope dilution - LCMSMS-isotope</td><td>-</td><td>-</td><td>Two 250 ml. HDPE WM</td></t<>		20	6	120	0	25 to 30, 35 to 40, 45 to 50, 55	isotope dilution - LCMSMS-isotope	-	-	Two 250 ml. HDPE WM
OAVOC Sample Type Number/Frequency Matrix Sample Depths (feet blow grado) Preparation and Analysis Sample Extites/Preservation Equipment blanks One per day during solid groundwater sempling, ealed analysis only when these are sampled Lab Water TOL VOCs and SVOCs plus TCs, TAL Metas, TCJ pesticides, and PCBs (Methods 50308982000, SS41 and 3510C482700, 9550860106, 36460981808024, Al-Doxane (Method 22700, 9550860106, mi HOPE VM Two 4 ori glass VOA vials with HOL three there analysis only when these are gause/barder VOC samples Two 4 ori glass VOA vials with PCL WM Trip blanks One per 20 environmental samples Sail Vapor Two 200 ml, HOPE VM Two 200 ml, HOPE VM One per 20 environmental samples Soil Sail Vapor TOL VOCs plus TCs (Method 537M with SM-lostope duluon) One for Summa Canister One per 20 environmental samples Soil Sail Vapor TOL VOCs plus TCs (Method 70-15) One for Summa Canister One per 20 environmental samples Soil Same as associated primary samples TOL VOCs and VTCCs plus TCs, TL, Metas, TCJ, pestidets, and PCBa Methods 50000R3000, S541 and 51000R3000, S541 and 510000R3000, S541 and 51000R3000, S541 and 51000R3000, S541 a		TBD	3	TBD	0	3 intervals per	isotope dilution - LCMSMS-isotope	-	-	Two 250 ml. HDPE WM
Concessingle rype Number/requency Number/requency Number/requency Number/requency Number/requency Number/requency Sample Bottlear/reservation Equipment blanks One per day during soil or groundwater sampled analytics and juic angles Lab Water . TCL VOCs and SVOCs plus TCs, TAL Masks, TCL pestickes, and PCBs stample during soil or groundwater vancy lass, 500 mt juics with HCL, three analytics angles Two 40 mt glass VOA vals with HCL, three tambre glass, 500 mt juics with HCL, three stample during soil or groundwater VOC samples Two 40 mt glass VOA vals with HCL, three tambre glass, 500 mt juics with HCL, three stample during soil or groundwater VOC samples Two 40 mt glass VOA vals with HCL, three tambre glass, 500 mt juics with HCL, three stample during soil or groundwater VOC samples Two 40 mt glass VOA vals with HCL, three tambre glass, 500 mt juics with HCL, three with HCL WML Trip blanks One per 20 environmental samples Soil Vapor True glass VOA vals with HCL WML with MCH WML during with HCL WML during with	Soil Vapor Samples	8	1	8	0	-	VOCs (Method TO-15)	-	-	Summa canister
Bind duplicates One per day during soil or groundwater samples Lab Water Methods 5008/82800, 3514 and 3510C/82720, 3050/80108, 34649081880800, and 7407/2414, 1, 4-Doxene (Method 8270 With SIM- isotope dilution) Iter amber grass, 500 m1 plastic with H, Voz and Voz Bind duplicates Trip blanks One per coder with soil or groundwater symptom Lab Water Trip blanks Two glass, 500 m1 plastic with H, Voz and Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz and Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind duplicates Two glass, 500 m1 plastic with H, Voz Bind Bind Bind Bind Bind Bind Bind Bind	QA/QC S	ample Type		Number/Freq	uency	Matrix			Preparation and Analysis	Sample Bottles/Preservation
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MS/MSD = Matrix spike/matrix spike duplicate VOCs = Volatile organic compounds SVOCs - Semivolatile organic compounds

TAL = Target Analyte List HCL = hydrochloric acid CWM = clear wide-mouth

BN = Base-neutral TICs = tentatively-identified compounds MEOH = Methanol

TCL = Target Compound List HNO3 = nitric acid PCBs = polychlorinated biphenyls

PFAS = Per and poly-fluorinated alkyl substances TICs = Tentatively-identified compounds HDPE = High-density polyethylene

	Holding Time
	VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides and PCBs: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days
	28 days
	VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days
	14 days until extraction, 28 days after extraction.
	VOCs: 14 days, SVOCs: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days
	14 days until extraction, 28 days after extraction.
	14 days until extraction, 28 days after extraction.
	30 days
	Holding Time
-	VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days
	14 days until extraction, 28 days after extraction.
	14 days until extraction, 28 days after extraction. 14 days
3	14 days
5	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction,
8	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days
	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction,
-	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28
	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days
6	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days, PFAS: 28 days 14 days until extraction, 28 days after extraction. VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction,
	14 days 30 days VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days 28 days VOCs: 14 days, SVOCs and 1,4-Dioxane: 7 days until extraction, Metals: 28 days, PFAS: 28 days 14 days after extraction, Metals: 28 days, PFAS: 28 days 14 days until extraction, 28 days after extraction. VOCs: frozen within 48 hours of collection, 14 days until analysis. SVOCs, pesticides, PCBs, 1,4- dioxane: 7 days until extraction, 40 days after extraction, Metals: 28 days



- NYSDEC's January 2021 Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), which are used to evaluate PFAS results from soil and groundwater samples;
- NYSDEC-provided guidance for 1,4-dioxane;
- The 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (SCOs), which are used to evaluate soil sample results;
- The 6 NYCRR Parts 370, 371, and 372 regulations for hazardous waste management, which are used to guide hazardous waste characterization and disposal; and
- The NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006, with May 2017 updated matrices), which is used to evaluate soil vapor sample results.

5.3 Quality Assurance/Quality Control Procedures

QA/QC procedures will be utilized during the performance of the RI field work to ensure that the resulting chemical analytical data accurately represent subsurface conditions. The following sections include descriptions of the QA/QC procedures to be utilized.

Equipment Decontamination Procedures

In general, all non-disposable downhole equipment (i.e., direct-push rods, hand auger, etc.) used during sampling activities will be decontaminated by washing in a potable water and Alconox solution and rinsing in potable water prior to use at each location to reduce the potential for cross contamination. All sampling equipment will be either dedicated disposable equipment or will be decontaminated prior to use at each location. The decontamination procedures utilized for all non-disposable sampling equipment will be as follows:

- 1. The equipment will be scrubbed in a bath of potable water and low-phosphate detergent (Alconox or Liquinox) followed by a potable water rinse;
- 2. The equipment will be rinsed with distilled water; and
- 3. The equipment will be allowed to air dry, if feasible.

In addition, for sampling activities involving PFAS, the following procedures will be followed due to the prevalence of these compounds in consumer products:

- No field clothing or PPE containing Gore-Tex, Tyvek, or fabric softener, will be worn. Any wet weather clothing will be made of polyurethane or PVC only;
- Waterproof field books, plastic clipboards, binders, or hard cover notebooks will not be used. No materials with adhesives (tape, post-it notes, etc.) will be used. Permanent markers (e.g. Sharpies) will not be used (ballpoint pens are acceptable);



- Field personnel will not use cosmetics, moisturizers, hand cream, sunscreen or insect repellent on the day of sampling. Field personnel must wash hands prior to donning nitrile gloves used during sampling;
- All decontamination will be performed using laboratory-provided PFAS-free water, Alconox, and/or Liquinox. Aluminum foil will not be used;
- All field equipment must not contain Teflon or low-density polyethylene materials. All sampling materials must be made from stainless steel, HDPE, acetate, silicon, or polypropylene; and
- PFAS samples must be maintained in a separate cooler from other types of samples (some sample containers contain PFAS). Coolers containing PFAS samples may be cooled with regular ice only; blue ice packs may not be used.

Sampling Sequence

To reduce the risk of cross-contamination, soil and groundwater sampling will be conducted in the following sequence at all locations where multiple analyte groups will be tested:

- Following the advancement of soil sampling equipment to the target depth or the completion
 of purging for groundwater, all of the samples for PFAS testing will be obtained, containerized,
 labeled, and managed under chain of custody procedures and in accordance with laboratory
 recommendations before sampling for other analytes is conducted. QA/QC samples for PFAS
 analysis will also be collected at this time;
- Following the completion of PFAS sampling, and after those samples have been properly secured, the samples for 1,4-dioxane testing will be obtained. These samples will also be obtained, containerized, labeled and managed under chain of custody procedures and in accordance with laboratory recommendations prior to conducting sampling for other analytes. QA/QC samples for 1,4-dioxane analysis will also be collected at this time; and
- After all of the samples for PFAS and 1,4-dioxane analyses are secured, sampling for the other analytes will be conducted.

QA/QC Samples

QA/QC samples will be collected and utilized to evaluate the potential for field or laboratory contamination and to evaluate the laboratory's analytical precision and accuracy. A sampling chart showing the number and types of primary samples, analytical methods, and QA/QC samples was presented on Table 5.1. The specific types of QA/QC samples to be collected are described below.

The decontamination procedures will be evaluated by the use of equipment blank samples. These samples consist of aliquots of laboratory-supplied water that are poured over or through the dedicated or decontaminated sampling equipment and then submitted to the laboratory for analysis. An equipment blank sample will be prepared for each day that soil or groundwater sampling is conducted at the Site and will be analyzed for the same analytes as the primary environmental samples collected that day. The equipment blanks will be labeled in a manner to prevent identification by the analytical laboratory.



Particular care will be taken with the equipment blank samples for PFAS. Laboratory-provided PFAS-free water containing the required preservative will be used to prepare the equipment blank samples for PFAS testing. The filled equipment blank container and the empty container that formerly contained the PFAS-free water must be labeled, placed in individual Zip-lock bags, and returned to the laboratory in the same cooler as the PFAS samples.

Trip blank samples will be utilized to evaluate the potential for VOC cross-contamination between samples in the same cooler or shipping container. Trip blank samples consist of laboratory-provided containers filled with laboratory water that are sealed in sample containers at the laboratory and that are transported to and in the field with the other sample containers. A trip blank will be shipped with each group of soil and groundwater samples to be analyzed for VOCs and will be managed in the field and analyzed in the laboratory in the same manner as the primary environmental samples.

Blind duplicate samples will be obtained at a frequency of at least one per every 20 environmental samples and will be used to attest to the precision of the laboratory. A blind duplicate consists of a separate aliquot of sample collected at the same time, in the same manner, and analyzed for the same parameters as the primary environmental sample. The blind duplicate samples are labeled in a manner such that they cannot be identified by the laboratory. The sample results are compared to those of the primary environmental sample to evaluate laboratory analytical precision.

Matrix spike/matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 environmental soil or groundwater samples. The purpose of the MS/MSD samples is to confirm the accuracy and precision of laboratory results based on a particular matrix. The MS/MSD results will be evaluated during the preparation of the DUSRs, as discussed below.

Chain-of-Custody Procedures

For each day of sampling, chain-of-custody (COC) sheets will be completed and submitted to the laboratory with the samples collected that day. A copy of each COC sheet will be retained by the FPM QEP for sample tracking purposes. Each COC sheet will include the project name, the sampler's signature, the sampling locations and intervals, and the analytical parameters requested.

Data Usability Summary Reports

All chemical analytical results will be evaluated using the sample data packages, sample data summary packages, and case narratives provided by the analytical laboratory. The data evaluation will be performed to verify that the analytical results are of sufficient quality to be relied upon to assess the potential presence of contaminants in the groundwater, soil vapor, indoor air, and/or soil samples. A data usability summary report (DUSR) will be prepared for each data package following the "Guidance for the Development of Data Usability Summary Reports" provided by the NYSDEC (Appendix 2B of DER-10). The resume of the anticipated DUSR preparer, Richard Baldwin, PG with Ramboll Environ, who is independent from this project, is included in Appendix B.



5.4 Sample Analysis

All samples will be submitted to NYSDOH ELAP-certified laboratories. The anticipated analytical laboratory for all samples is Alpha Analytical (Alpha) of Westborough, Massachusetts. The analytical data will be provided by the laboratory in electronic format, in accordance with DER-10, Section 1.15. Electronic data deliverables (EDDs) will also be prepared and uploaded into the NYSDEC's environmental information management system.

All of the soil and groundwater samples will be analyzed for PFAS using the LC-MS/MS analysis for PFAS following EPA Method 537.1(modified) using the mass spectrometer in the selective ion monitoring (SIM) mode. For PFOA and PFOS the reporting limits will be less than or equal to 2 nanograms per liter (ng/l, or parts per trillion) for water and 0.5 ug/kg for soil. The reporting limits for all other PFAS compounds will be as close to these limits as possible. Copies of Alpha's Standard Operating Procedure (SOP) for PFAS analyses in soil and groundwater, list of targeted PFAS analytes, reporting limits, and laboratory quality control criteria are included in Appendix B and the PFAS analyte list is provided in Table 5.4.1 below.

Perfluorobutanoic Acid (PFBA)
1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2) 6:2FTS
PERFLUOROHEPTANESULFONIC ACID (PFHPS)
Perfluoropentanoic Acid (PFPeA)
Perfluorobutanesulfonic Acid (PFBS)
Perfluorohexanoic Acid (PFHxA)
Perfluoroheptanoic Acid (PFHpA)
Perfluorohexanesulfonic Acid (PFHxS)
Perfluorooctanoic Acid (PFOA)
Perfluorononanoic Acid (PFNA)
Perfluorooctanesulfonic Acid (PFOS)
Perfluorodecanoic Acid (PFDA)
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)
Perfluoroundecanoic Acid (PFUnA)
Perfluorodecanesulfonic Acid (PFDS)
Perfluorooctanesulfonamide (FOSA)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)
Perfluorododecanoic Acid (PFDoA)
Perfluorotridecanoic Acid (PFTrDA)
Perfluorotetradecanoic Acid (PFTA)

TABLE 5.4.1 PFAS ANAYTE LIST

Select soil and groundwater samples will be analyzed for TCL VOCs plus 10 tentatively-identified compounds (TICs) using EPA Method 5035/5035A and 8260B; TCL SVOCs plus 20 TICs using



Methods 3541 or 3510C/8270C, TAL metals using Methods 3050B or 3010A/6010B, mercury using Methods 7471A or 7470A, PCBs using Methods 3546/8082, and pesticides using Methods 3510C or 3535A and 8141A/8151B/8081/8082. The analytical methods used will be as per NYS Analytical Services Protocol (ASP) with Category B deliverables. These select samples will also be analyzed for 1,4-dioxane using EPA Method 8270D with the mass spectrometer in the SIM mode with isotope dilution. For 1,4-dioxane in water the reporting limit will be 0.15 ug/l and the method detection limit will be 0.075 ug/l. Category B-equivalent deliverables will be provided.

Select soil samples may be analyzed using the Synthetic Precipitation Leaching Procedure (SPLP), with LC-MS/MS analysis for PFAS following EPA Method 537.1(modified) using the mass spectrometer in the SIM mode. These analyses may be performed in the event that PFAS compounds (not including PFOA or PFOS) are found in onsite soils at levels that could result in leaching to groundwater at concentrations that might exceed applicable NYSDEC groundwater criteria.

The soil vapor samples will be analyzed for VOCs using Method TO-15. The analytical method used will be as per NYS ASP with Category B-equivalent deliverables.

5.5 Data Evaluation

The data collected will be assembled, reviewed, and evaluated and the baseline CSM will be updated as needed. The PFAS data for the onsite soil and groundwater samples will be used to further assess the nature and extent of PFAS contamination in the soil and groundwater at the Site and the potential for this contamination to extend offsite. The PFAS data for the offsite groundwater samples will be used to assess the nature and extent of PFAS contamination in groundwater that may be related to the Site.

The data for the other analyte groups for the onsite soil and groundwater samples will be used to assess onsite soil and groundwater conditions and update the CSM as needed.

The soil vapor samples will be used to assess the potential for soil vapor intrusion into the onsite buildings.

5.6 Project Organization

The Project Manager for this project will be Ben Cancemi, PG, who is a Hydrogeologist and Manager of FPM's Hydrogeology Department. Stephanie Davis, PG, who is a Hydrogeologist and Senior Project Manager will be the QAO and provide QA/QC services for all aspects of the RI/FS process. Mr. John Bukoski, PG, who has provided field services at FPM for over 20 years, will be the Field Services Manager and will also serve as the health and safety officer. Resumes for project personnel are included in Appendix B. Subcontracted services will include direct-push/drilling services (subcontractor to be determined), laboratory services (Alpha Analytical), and DUSR preparation (Ramboll).



SECTION 6.0 REFERENCES

- AECOM. November 30, 2018. Site Characterization Report, East Hampton Airport, Wainscott, Suffolk County, New York.
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APPENDIX A

PREVIOUS INVESTIGATION DATA, ADDITIONAL INFORMATION



Site Characterization Report (2018)





Site Characterization Report

East Hampton Airport Wainscott, Suffolk County, New York

New York State Department of Environmental Conservation Division of Environmental Remediation

November 30, 2018

Quality information

Prepared by	Checked by	Verified by	Approved by
Alexandra Golden and Caroline Bardwell, CPG, CHMM	Lindsay Mitchell, P.E. Project Manager	Daniel Servetas, P.E. Certifying Engineer	Lindsay Mitchell, P.E. Project Manager

Revision History

Revision	Revision date	Details	Authorized	Name	Position
1	12/11/2018	Appendix C – Soil Boring Logs only	12/11/2018	Lindsay Mitchell	AECOM Project Manager
			_		

Distribution List

Hard Copies PDF Required Association / Company Name

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List of Acronyms and Abbreviations

AFFF	aqueous film-forming foam
AOC	Area of Concern
ARFF	Aircraft Rescue and Firefighting
bgs	below ground surface
COC	chain of custody
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ft.	foot/feet
GPR	ground penetrating radar
HAL	US EPA Health Advisory Level
1.D.	inside diameter
IDW	investigation-derived waste
MS/MSD	matrix spike/matrix spike duplicate
MW	monitoring well
ng/g	nanograms per gram
ng/L	nanograms per liter (parts per trillion)
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PFAS	per- and polyfluoroalkyl substances
PFC	perfluorinated compound
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
PVC	polyvinyl chloride
QAVQC	quality assurance/quality control
SC	site characterization
SCDHS	Suffolk County Department of Health Services
SCR	Site Characterization Report
SOW	scope of work
US EPA	United States Environmental Protection Agency
VOC	volatile organic compound

Site Characterization Report Certification

I, Daniel Servetas, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Characterization Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully submitted, AECOM Technical Services Northeast, Inc.

Daniel Servetas Registered Professional Engineer New York License No. 079068

WARNING: It is in violation of New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his/her seal and notation "Altered By" followed by his/her signature and date of such alteration, and a specific description of the alteration.

OFFSSI

unber 30, 2018

Date

1. Introduction

This Site Characterization Report (SCR) documents the findings of the 2018 site characterization (SC) completed by AECOM USA, Inc. at the East Hampton Airport in Long Island, New York on behalf of the New York State Department of Environmental Conservation (NYSDEC). The purpose of the SC was to identify the presence or absence of perand polyfluoroalkyl substances (PFAS) contamination so that a determination could be made as to whether the site poses a significant threat to public health and/or the environment that warrants further investigation or remedial action. As a group, PFAS are chemicals with broad application, primarily in the manufacture of commercial products that resist heat or chemical reactions and repel oil, stains, grease and water. Perfluorooctanoic acid (PFOA) is a specific PFAS compound found in various industrial products (aerospace, automotive, building, and electronics industries) that is commonly used in nonstick cookware, stain-resistant carpeting and fabrics, and paper and cardboard. PFOA was also used in some formulations of aqueous film-forming foam (AFFF), a common and effective firefighting agent. Perfluorooctane sulfonic acid (PFOS) is the primary PFAS compound used in firefighting foam. This SC was undertaken due to the documented presence of AFFF at the East Hampton Airport for firefighting and fire training activities, either currently or historically, and the associated potential for chemical discharge at concentrations that could present a risk for public health or the environment. Site characterization activities were performed between April and September 2018. The remainder of this section outlines the Site Description, Site Background, SC Objectives, Scope of Work, Report Organization and Regulatory Framework.

1.1 Site Location

The approximately 610-acre Site (Draft Master Plan Report, Savik & Murray, LLP, April 2007) is located at 200 Daniels Hole Road in the hamlet of Wainscott in Suffolk County, New York (Figure 1), approximately 3.4 miles west of the Village of East Hampton on the South Fork of Long Island. The Site, owned by the Town of East Hampton, includes the airport and the East Hampton Industrial Park at the southern end of the airport along Industrial Road. Various commercial/industrial businesses lease the buildings from the owner. Coordinates for the approximate center of the Site are 40°57'37.2" N, 72°15'03.7" W. The nearest residential properties are located south of the Site beyond the railroad tracks and there are additional residential parcels to the west on Town Line Road. At the time of the SC field activities, a majority of the nearby residences obtained their potable water from private groundwater wells. The public water supply network is currently being expanded to service these homes.

The Atlantic Ocean lies to the south of Wainscott; the Village of Sagaponack is located to the west; and the Village of East Hampton is to the east. Other communities that border Wainscott are East Hampton and Northwest Harbor to the northeast, the village of Sag Harbor to the north, and Noyack and Bridgehampton to the west (north of Sagaponack).

The airport property is zoned Commercial/Industrial according to the Town zoning map. Surrounding properties are used for residential and commercial purposes with areas of open, unoccupied land.

1.2 Site Background

Originally built in the late 1930s, the airport is capable of handling small general aviation aircraft. The site property consists of a public use airport with a parking lot, airport terminal and various support buildings. Additionally, several parcels to the south of the airfield are leased for commercial/industrial and public service tenants. The public service tenants include the East Hampton Fire District Training Facility, the Aircraft Rescue and Firefighting (ARFF) facility, and the East Hampton Police.

In the fall of 2017, the Suffolk County Water Authority initiated a drinking water investigation for PFAS, which included sampling private water supply wells and the installation of monitoring wells. Several residences in East Hampton had detectable levels of PFAS contaminants in their well water, with the highest concentrations exhibited at houses situated in close proximity (south/southwest) to the airport property. The Site has not previously been investigated for the presence of PFAS.

1.3 Site Characterization Objectives

The objective of the SC was to determine if the Site has the potential to be a significant threat to public health and/or the environment. The findings of this investigation are necessary to evaluate the need for further action or investigation.

1.4 Scope of Work

In general, the final scope of work (SOW) for SC included the following tasks:

- Site Review: Identify potential historical events with AFFF use, such as training events, plane/car crashes on airport property where AFFF was applied, as well as current/former AFFF storage areas. Select proposed sample locations with final placement to be established during site visits
- Preliminary Activities: Attend on-site meeting with NYSDEC personnel to discuss proposed sampling locations based on research findings. Solicit subcontractor bids, formalize budget, and prepare health and safety plan
- Mobilization/Utility Clearance: Mark proposed temporary monitoring well (MW) locations on-site; conduct public and private utility markout of proposed locations and adjust as necessary
- Drinking Water Screening: Collect tap water samples at hangar spaces leased by the airport to private tenants and submit for PFAS laboratory analysis
- Drilling Program (two phases): Advancement and continuous sampling of soil borings, collection and analysis of soil samples near ground surface and above the water table, placement of polyvinyl chloride (PVC) well screen in temporary MWs for future sampling
- Groundwater Monitoring Program (two phases): Gauge water level at all temporary MWs and piezometers to calculate groundwater elevation, collect groundwater samples for PFAS laboratory analysis at temporary wells and Suffolk County Water Authority well MW-10
- Surface water/Sediment Sampling: Collect surface water sample at a catch basin near EH-A and corresponding sediment sample, if possible
- Survey: Oversee land survey activities

1.5 Report Organization

This SCR is organized into the following Sections, followed by Figures, Tables, and Appendices:

- Section 1: includes background information and a synopsis of Site characteristics and the SOW.
- Section 2: includes a description of activities that occurred during each phase of the SC fieldwork.
- Section 3: includes a description of the subsurface conditions at the Site.
- Section 4: includes a description and summary of the analytical results for samples collected during SC activities.
- Section 5: describes the SC findings, presents conclusions, and summarizes recommendations for further action, if proposed.

1.6 Regulatory Framework

PFAS are not currently regulated at the federal level and are not regulated in soil and groundwater in New York. Effective March 3, 2017, the NYSDEC added PFOA and PFOS to New York State's 6 New York Codes, Rules and Regulations (NYCRR) Part 597 List of Hazardous Substances. While the Final Rule lists PFOS and PFOA as hazardous substances, no screening or clean-up criteria are provided.

The United States Environmental Protection Agency (US EPA) has established a lifetime Health Advisory Level (HAL) of 70 nanograms per liter (ng/L) for PFOS and PFOA, individually or combined, to protect against potential risk from

exposure to drinking water contaminated by these compounds. There are no regulatory criteria for the other 19 PFAS compounds analyzed for in this SC; therefore, report discussion focuses primarily on PFOA and PFOS.

2. Field Activities

Field activities for the SC were performed between February 19, 2018 and August 10, 2018, during multiple site mobilizations. This Section provides detail on the investigation tasks completed during that timeframe. The following subcontractors provided services during the SC:

- Drilling Cascade Drilling Company (Cascade), AECOM Subcontractor
- Ground Penetrating Radar (GPR) Advanced Geological Services (AGS), AECOM Subcontractor
- Surveying C.T. Male Associates (CT Male), AECOM Subcontractor
- Chemical Laboratory Analyses ALS Environmental, Inc. (ALS), NYSDEC call-out contractor

All field activities were performed or supervised by an AECOM geologist. Photographs of field activities are included in **Appendix A** and daily reports are provided in **Appendix B**.

2.1 Site Review

Based on information gathered by the NYSDEC, Town of East Hampton officials, and AECOM regarding recorded and other potential uses of AFFF on Site property, temporary MW locations were selected for the purpose of site characterization. Potential well locations were sited based on historical information provided by site contacts and municipal officials, including, for example, historical photographs of crash sites (**Appendix A**). Existing geological and hydrogeological information (e.g., groundwater flow direction, depth to groundwater), including data collected from the Suffolk County Water Authority, was utilized to guide the development of the SC SOW.

Temporary MW locations were finalized and marked in the field by an AECOM geologist on-site on August 6, 2018. All prospective MW locations were evaluated for the presence of subsurface utilities by Advanced Geological Services. Any conflicts and MW locations were adjusted accordingly. These activities were overseen by an AECOM geologist.

Using information provided by local, county, and state contacts along with available topographic and geologic mapping, AECOM staff identified several target areas that warranted subsurface investigation, including known areas of AFFF discharge. Additional locations were selected for a second phase of investigation after initial results were reviewed. The following table presents the justification behind each soil boring, piezometer, temporary well location, and water supply well sample.

Target Area	Location ID	Justification	Drilling Phase
North Field (Area	EH-E	Location of a plane that crash landed	Initial Phase
E and Area B)	EH-B	Fire Department mass casualty exercise using AFFF and small bus	Initial Phase
	EH-E1	Upgradient of EH-E	Second Phase
100 million 100	EH-B1	Downgradient of EH-B	Second Phase
	EH-16	Fire Department training exercise location with AFFF and a large bus	Initial Phase
	EH-161	Upgradient of EH-16	Second Phase
	EH-162	Downgradient of EH-16	Second Phase
Northeast Woods (Area C)	EH-C	Historical vehicle incident where car left road and entered the woods, marked by a break in the fence. The Fire Department had been called as a precautionary measure	Initial Phase
Aircraft/Helicopter Taxiway (Area A)	EH-A	Previous car fire with documented AFFF discharge (Area A). The potential runoff of AFFF off of the tarmac into nearby grass warranted placement of 3 additional soil borings (SB-1, SB-2 and SB-3)	Initial Phase

Target Area	Location ID	Justification	Drilling Phase		
ARFF (Parcel 19)	EH-19A	Located near the Fire Department garage where AFFF and fire trucks are stored	Initial Phase		
	EH-19B	Located near the Fire Department garage where AFFF and fire trucks are stored	Initial Phase		
	EH-19A1	Upgradient of EH-19A	Second Phase		
	EH-19A2	Downgradient of EH-19A	Second Phase		
	EH-19B1	Downgradient of Parcel 19 and upgradient of Parcel 1. On East Hampton Fire District Training Facility parcel	Second Phase		
East Hampton Police Dept. (Parcel 1)	EH-1	Fire training structure where AFFF may have been discharged.	Initial Phase		
Local Television Inc. (Parcel 10)	EH-10	This location was sampled to investigate potential impacts from AFFF runoff from the historical use at fire garage. The temporary well is located downgradient of the fire garage.	Initial Phase		
East End Hangars (Parcel 18)	EH-18	Downgradient of hangar buildings	Initial Phase		
Upgradient of Water Supply well	EH-SAS	Upgradient of drinking water supply well associated with tap sample SAS-1	Second Phase		
Piezometers	EH-P1, EH-P2, EH-P3	Installed across the site to supplement groundwater elevation data collected during the SC	Initial Phase		
Soil Borings	EH-A1, EH-A2, EH-A3	Evaluate runoff from Area A (Taxiway) where a historical car fire occurred	Initial Phase		
Storm Drain Sample	Catch Basin	Evaluate runoff from Area A (Taxiway) where a historical car fire occurred	Initial Phase		
Supply Well Tap Samples	HH-20/21, HH- 18, SAS-1, SAS-2, SAS-3, EH-1	At least one sample was collected from each of six drinking water supply wells that service leased hangar spaces at Parcel 16 and Parcel 18. Taps located at Hangars 7, 8 and 18 (HH-7/8 and EH-18) were inaccessible during sampling activities.	Initial Phase/ Second Phase		
Existing County Well	MVV-10	To supplement SC water quality and elevation data with permanent off-site well location	Initial Phase		

For the initial phase of investigation, prospective boring locations were flagged and marked by AECOM personnel while escorted by East Hampton Airport Staff. The following day all prospective locations were checked for subsurface utility interference by AGS. Any conflicts resulted in adjustment of the location to a more favorable position. These activities were overseen by an AECOM geologist. The final temporary well locations are depicted on **Figure 2**.

2.2 Mobilization/Utility Clearance

During the investigation, extensive precautions were used to eliminate the potential for cross-contamination from PFAS-containing materials. This preparation included ensuring field staff used perfluorinated compound (PFC)-free clothing, equipment, and supplies during SC activities and using certified PFC-free water during drilling and sampling (supplied by Cascade).

Prior to commencing any intrusive activities, AECOM arranged for utility mark-outs through Dig Safely New York, Inc. and a subcontractor, Advanced Geological Services. The locations for some of the temporary MW locations were adjusted after GPR results indicated they may be situated too close to an underground utility.

2.3 Drinking Water Tap Sampling

Several hangars on the airport property are leased to private tenants and some of them have installed potable water supply wells. As an initial screening measure, AECOM collected samples from tap locations at six spaces, to avoid any unnecessary disruption of tenant operations.

On April 25, 2018, the tap water samples were collected by an AECOM Geologist from Sound Aircraft Services (SAS-1, SAS-2, SAS-3), Hampton Hangars (HH-20/21 and HH-18), and East Hampton Hangars (EH-1). Sample locations are shown on **Figure 2**. An East Hampton Airport employee escorted AECOM personnel throughout the process. The tap was purged for a brief period to ensure sampled water was coming from the well and not the piping. The samples were preserved on ice, packaged, and submitted under standard chain of custody (COC) to ALS Environmental for PFAS analyses. On August 7, 2018, tap location SAS-1 was resampled by AECOM based on the initial analytical results, which showed higher concentrations than other samples.

2.4 Drilling Program

2.4.1 Soil Sampling

Between April 30, 2018 and May 4, 2018, soil borings were advanced to depths ranging from 25 to 45 feet below ground surface (bgs) by Cascade using a track-mounted Geoprobe® unit equipped with a macrocore sampler. Continuous soil samples were collected in acetate liners in 5-foot intervals during the drilling of temporary MWs and piezometers for the initial phase. Two soil samples were collected for each of the initial ten borings, with an additional sample collected at EH-B. An AECOM field geologist logged soil descriptions and screened soil for the presence of volatile organic compounds (VOC) using a Photoionization Detector. Soil samples were collected in laboratory-supplied bottleware, placed on ice, and submitted to ALS for laboratory analysis under standard COC protocols. Investigation-derived waste (IDW) was placed in a labeled drum for later characterization and off-site disposal. Soil boring logs are presented in **Appendix C** and well locations are provided on **Figure 2**.

After reviewing analytical results from the initial phase of drilling, AECOM coordinated with the NYSDEC to identify target areas where elevated concentrations of PFAS were reported. At each of these areas, one upgradient and one downgradient temporary well were installed during a second phase of investigation on August 8 and 9, 2018. This exercise resulted in advancement of eight additional temporary MWs. Soil sampling was not completed at these additional borings, with the exception of EH-19B1. Additionally, EH-SAS was installed upgradient of the water supply well for tap sample SAS-1; however, no downgradient well was installed.

2.4.2 Temporary MW Installation

After the depth to groundwater was confirmed at each of the 18 borings, a 1.75-inch inside diameter (I.D.) PVC well screen was placed in the borehole to act as a temporary MW to keep the borehole open and facilitate groundwater sampling. Each MW was constructed with 10-ft. length sections of 0.010-inch slot well screen and capped with a 4-inch steel protective casing, with locking cap secured in place. Field observations, measurements, and well construction timetables were recorded in the Daily Notes in **Appendix B**.

Once the depth to groundwater was determined for each soil boring, Cascade set a 10 ft. PVC screen, the depth of which was recorded by an AECOM geologist. Each monitoring well was constructed with 10-ft. length sections of 0.010-inch slot, Schedule 40 well screen with the exception of EH-19B1, which had a 15-ft. screen. Each well was capped with a 4-inch steel protective casing with a locking cap secured in place.

The three piezometers for groundwater monitoring (EH-P1, EH-P2 and EH-P3) were placed so that they transect the site perpendicular to the flow of groundwater. **Figure 3** displays a cross-section of the groundwater present between the piezometers.

2.5 Groundwater Monitoring Program

Groundwater elevation measurements were collected and recorded prior to groundwater sampling activities in May and August 2018, which are presented in **Table 1**. Water levels were determined using an electronic water level meter, which was decontaminated before proceeding to the next well location. Measurements were referenced to the top of each PVC well riser.

Groundwater sampling was performed using a 1-inch bailer with high density polyethylene PFC-free tubing, PFC-free twine, a YSI 556 multi-meter, and a HACH 2100 turbidity meter. AECOM Standard Operating Procedures for Sampling PFAS were followed by all field staff during the SC activities. The groundwater samples were transported under standard COC procedures to ALS Environmental and analyzed for the list of 21 PFAS compounds shown in **Table 1**. Groundwater sampling logs are presented in **Appendix D**.

2.6 Quality Assurance/Quality Control

Field duplicates, matrix spikes/matrix spike duplicates (MS/MSD), equipment blanks, and trip blanks were collected and analyzed as appropriate for quality assurance/quality control (QA/QC) purposes. Duplicate soil samples were collected from EH-1 both from the 0-1 foot bgs interval (DUP-1) and 32-33 feet bgs interval (DUP-2). Two MS/MSD samples were collected for QA/QC purposes. MS/MSD-1 was collected from EH-A1 at a depth of 23-24 feet bgs. MS/MSD-2 was collected from EH-A3 at a depth of 0-1 foot bgs. During the second drilling phase, duplicate soil samples were also collected from EH-161 at a depth of 0-1 foot bgs. Two sets of MS/MSD samples were collected from EH-E for QA/QC purposes, from depths of 0-1 foot bgs and 26-27 feet bgs. For groundwater monitoring, duplicate samples were also collected from MW-10, and MS/MSD samples were collected from EH-A. In August 2018, AECOM also collected duplicate aqueous samples from EH-19A2 and MS/MSD samples from EH-19A1.

2.7 Site Survey

At the conclusion of the field activities described above, C.T. Male Associates completed a survey of all temporary MWs including the sampled Suffolk County-installed MW (MW-10).

3. Physical Setting

3.1 Site Topography and Drainage

Ground elevations on-site range between 30 and 55 feet above Mean Sea Level, based on data collected during the monitoring well survey. Some areas of higher elevation exist to the west and south. The airport property is developed with numerous buildings and includes large expanses of paved (impermeable) surfaces. The remainder of the property is characterized by open fields and wooded areas.

3.2 Site Geology and Hydrogeology

The Site geologic setting consists of a glacial outwash plain that slopes south from the Ronkonkoma Moraine to bays and barrier islands, which form the southern boundary of Long Island. Shallow soils are generally comprised of glacial outwash sands with intermittent non-continuous silt and clay lenses that originated from the receding Wisconsin ice sheets at the end of the Pleistocene epoch.

A geologic cross-section of the soils encountered during the installation of the SC soil borings is provided on Figure 3 and soil boring logs are included in this report as Appendix C.

Groundwater beneath the airport is found within three different aquifers:

- Lloyd Aquifer: the deepest aquifer, providing a reliable source of drinking water unimpacted by the salt water intrusion that commonly affects shallow aquifers on Long Island;
- 2. Magothy: a good source of drinking water; and
- Upper Glacial: the unconfined, shallow surficial aquifer, which is the major source of potable water in the area. This unconfined aquifer consists of very porous and highly permeable coarse sands and gravels, and can yield large quantities of water.

Depth to groundwater on-site varies from 15 feet bgs in the northern portion of the site to 30 feet bgs at the industrial park. Groundwater flows from northwest to southeast across the Site with a gradient of 4.0×10^{-4} ft./ft. A groundwater contour map is included as **Figure 4**.

4. Analytical Results

The following sections present the laboratory results for samples collected during the SC activities. All samples were analyzed for 21 PFAS compounds via US EPA Method 537.

4.1 Drinking Water

During the SC investigation, six tap water samples were collected from leased aircraft hangars located on airport property. These results are listed in **Table 2** and presented on **Figure 5**. Although PFOA and PFOS were not detected above the HAL of 70 ng/L, either individually or combined, trace to low levels of the compounds were identified. Sample location SAS-1 exhibited the highest concentration of PFOA, with 22 ng/L in May 2018. SAS-1 was subsequently resampled in August 2018 to verify this detection. The initial detection of PFOA was confirmed, but at a lower concentration of 11 ng/L. No PFOS was reported in the well. Other water supply wells exhibited PFOS concentrations ranging from non-detect to 8.9 ng/L and PFOA concentrations ranging from non-detect to 2.1 ng/L. Other PFAS compounds were detected in tap water samples; however, there are no current state or federal advisory levels for PFAS compounds other than PFOS and PFOA for comparison purposes.

4.2 Soil

A total of 41 soil samples were collected and analyzed during the SC's two drilling phases at a total of 21 boring/well locations. In general, one shallow soil sample (0-1 ft. bgs) and one deep soil sample (greater than 20 ft. bgs) were collected at each temporary well location. The soil analytical results are presented in **Table 3** and on **Figure 6**.

PFOA and PFOS were not detected above the PFOS/PFOA HAL of 70 ng/g (either individually or combined) in any of the soil samples. Of the 41 samples collected, 16 exhibited detectable concentrations of PFOS, ranging from 0.19 J ng/g to 12 ng/g, and seven samples exhibited detectable concentrations of PFOA, ranging from 0.2 ng/g to 3.8 ng/g. Trace to low levels of other unregulated PFAS compounds in the 21-compound analyte list were also detected in soil samples.

4.3 Groundwater

During SC field activities in May and August 2018, AECOM collected groundwater samples from 18 temporary wells, three piezometers, and Suffolk County monitoring well MW-10. An aqueous storm drain sample (Catch Basin) is also included in the groundwater results, which are presented in **Table 1** and portrayed on **Figure 7**.

Of the 25 sample locations, the HAL of 70 ng/L was exceeded at a total of six wells, including EH-1, EH-19A, EH-19B, EH-19A2, EH-B1, and EH-162. At these locations, the combined PFOS/PFOA concentrations ranging from 145 ng/L to 299.3 ng/L. Trace to low levels of PFOS and PFOA were reported in several other locations at concentrations below the HAL.

As previously stated, there are no current state or federal advisory levels for PFAS compounds other than PFOS and PFOA for comparison purposes. Each of the remaining 19 PFAS analytes was identified in at least one groundwater sample at varying concentrations. In addition to elevated PFOS/PFOA impacts, samples from wells in Parcel 19 exhibited concentrations of other perfluoroalkyl carboxylic acids that were one to two orders of magnitude higher than wells for other target areas.

4.4 Data Quality

Data Usability Summary Reports (DUSRs) were prepared by EDS, which included review of full Category B analytical packages. Data qualifiers were modified, as appropriate, and final values are presented in the tables, figures and appendices attached to this report. All data was deemed usable by the data validator and DUSRs are provided in **Appendix E**.

4.5 Electronic Data Deliverables

All laboratory data was received in a format compatible for submission to NYSDEC's centralized database. A separate electronic data deliverable submission will be made to NYSDEC, which will include validated analytical data from the DUSR process and survey data.

5. Conclusions and Recommendations

The following conclusions and recommendations can be made based on the SC findings for the East Hampton Airport PFAS assessment. As additional information for this site becomes available, it will be reviewed by NYSDEC and NYSDOH officials and incorporated into the site conceptual model to determine whether site contamination presents public health exposure concerns.

5.1 Conclusions

- Drinking Water: Samples were collected from several private water supply wells that service leased hangar spaces. Samples were collected from sink taps located within each space. Trace to low levels of PFOS and PFOA were detected in each of the tap samples, with PFOS concentrations ranging from 1.2 to 8.9 ng/L and PFOA reported at 1.4 to 22 ng/L. No detections were reported above the 70 ng/L HAL.
- Soil: The presence of PFAS compounds in soil above laboratory reporting limits indicate that release(s) have occurred on-site. To date no regulatory guidelines have been established to determine soil cleanup objectives or protection of groundwater standards for PFAS in soil. The highest reported concentration of PFAS compounds were from boring EH-19B1, with 12 ng/g of PFOS and 3.8 ng/g of PFOA.
- Groundwater: Investigation findings show that the historic use and/or storage of AFFF have impacted Site
 groundwater quality. In particular, PFOS and PFOA have been identified in Site groundwater at
 concentrations above the US EPA HAL of 70 ng/L. Analytical results from upgradient and downgradient
 wells indicate that there are four distinct areas of concern (AOCs, as shown on Figure 8), including:
 - AOC-1: Groundwater beneath Areas B and E located north of the airfield, where firefighting foam was
 historically used for crash response and training. PFOS (270 ng/L) and PFOA (17 ng/L) are present in
 temporary well EH-B1.
 - AOC-2: Groundwater beneath Area 16, where AFFF was deployed during a mass casualty training exercise, is impacted by PFOS above the HAL. PFOS was reported at 290 ng/L in the groundwater sample from downgradient temporary well EH-162, with lower levels of PFOA (9.3 ng/L).
 - AOC-3: Groundwater beneath Parcel 19, where the ARFF station is located, has been impacted by both PFOS and PFOA above the HAL. Although no documented discharge of AFFF could be confirmed, AFFF is stored in the station. Analytical results for three temporary wells (EH-19A, EH-19A2, and EH-19B) exhibited one or more exceedances of the HAL, with a maximum reported concentration of 174 ng/L for combined PFOS/PFOA.
 - AOC-4: Groundwater beneath Parcel 1, occupied by the East Hampton Police Department, has been
 impacted with PFOA above the HAL. Temporary well EH-1, located adjacent to the burn training
 structure, exhibited PFOA at 160 ng/L. Groundwater quality in upgradient well EH-19B1 indicates that
 the contamination originated on the parcel.

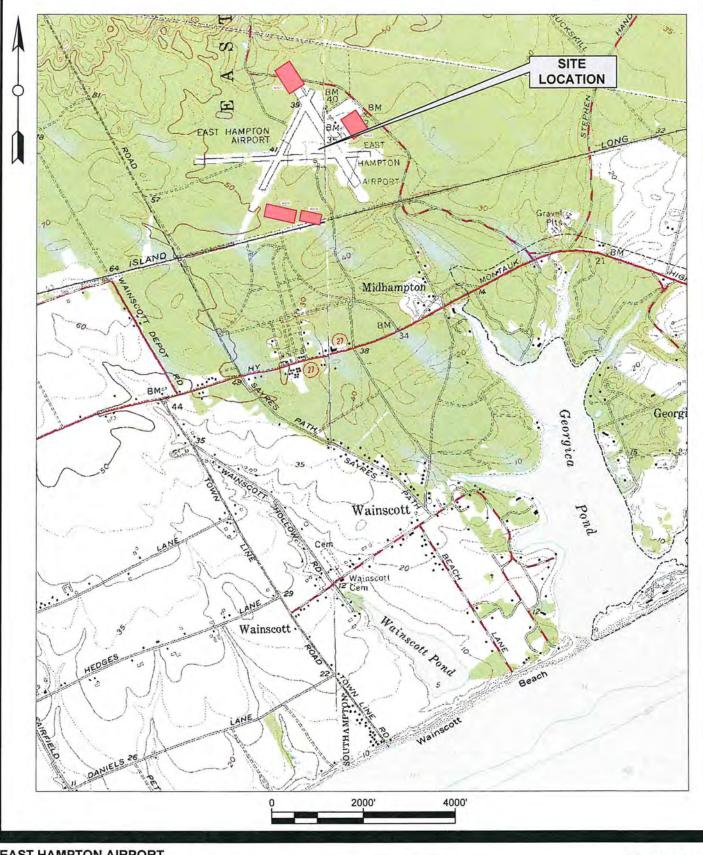
5.2 Recommendations

AECOM offers the following recommendations based on the data collected to date:

- Due to the presence of PFAS contamination at concentrations above the federal HAL, a supplemental
 investigation is recommended for the four identified AOCs to delineate the nature and extent of impacts.
 The investigation should include the following:
 - Collection of additional soil samples to evaluate whether an ongoing source of PFAS contamination to groundwater is present in Site soils at each AOC.
 - Expansion of the on-site monitoring well network, including conversion of key temporary wells into
 permanent wells and new monitoring well locations. Implement a groundwater sampling program to
 complete horizontal and vertical delineation of the PFAS impacts to groundwater. Include vertical
 profile sampling since the SC was limited to the evaluation of shallow groundwater impacts and well
 usage in the area may have drawn impacts to greater depth.

Install off-site monitoring wells to determine whether Site groundwater quality has been impacted by upgradient sources and better understand whether PFAS-impacted groundwater from the East Hampton Airport Site has migrated off-site. If appropriate, this off-site evaluation should include sampling of monitoring wells installed by the Suffolk County Department of Health Services (SCDHS).
 Appendix F contains water level information and PFAS groundwater data collected by Suffolk County from public wells during 2018, as well as a figure of the monitoring well locations.

FIGURES



EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: September 2018

SITE LOCATION PLAN





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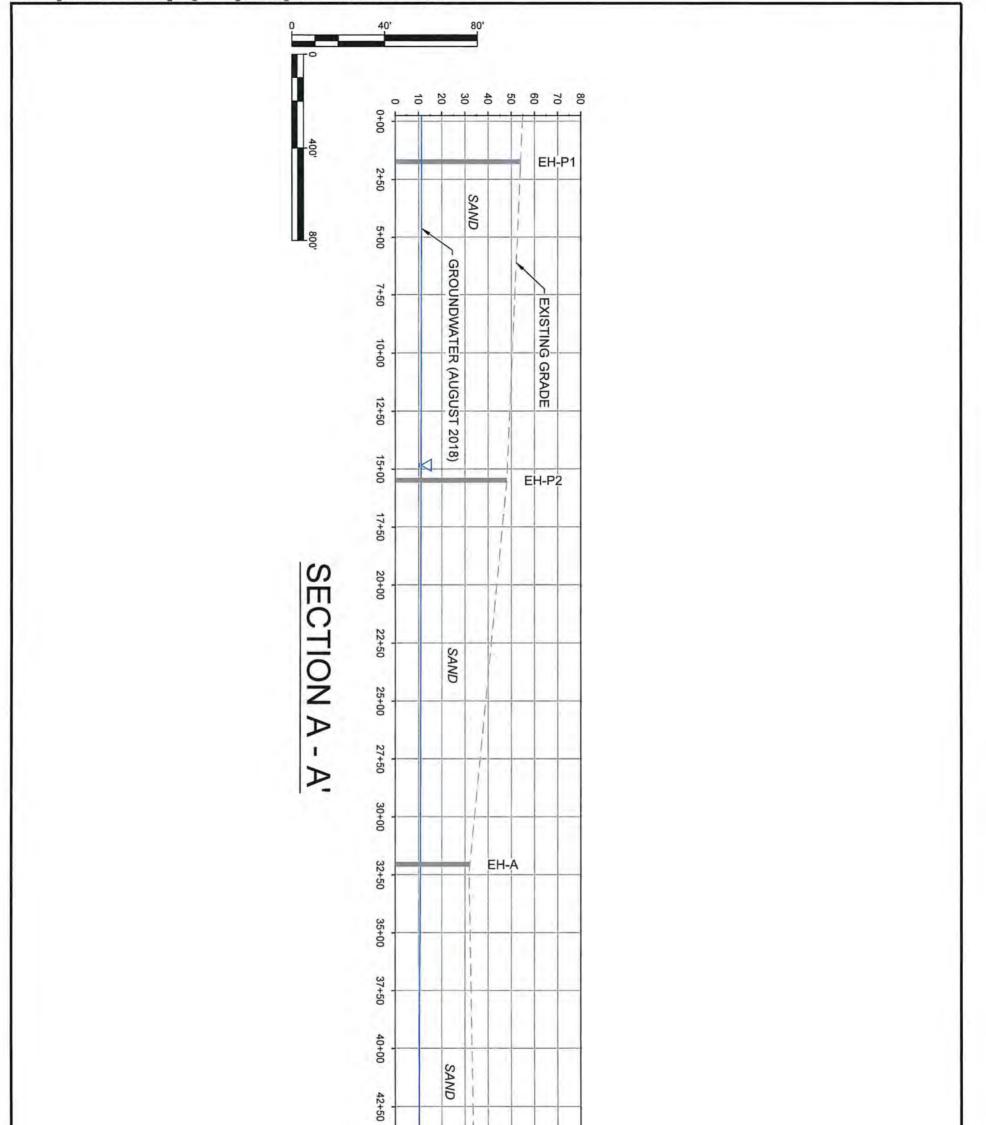
EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT

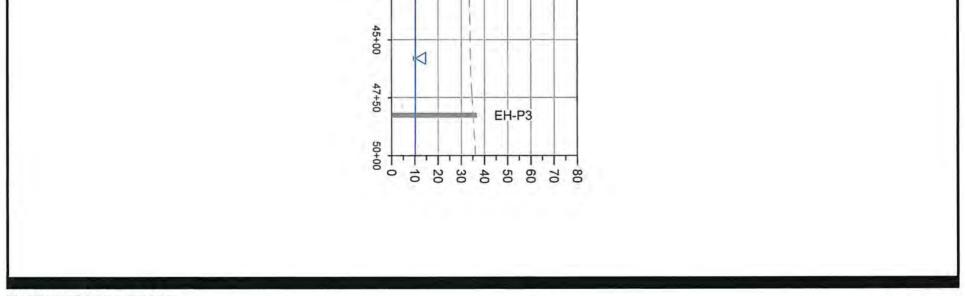
New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: September 2018

EXISTING SITE FEATURES

AECOM

Figure: 2

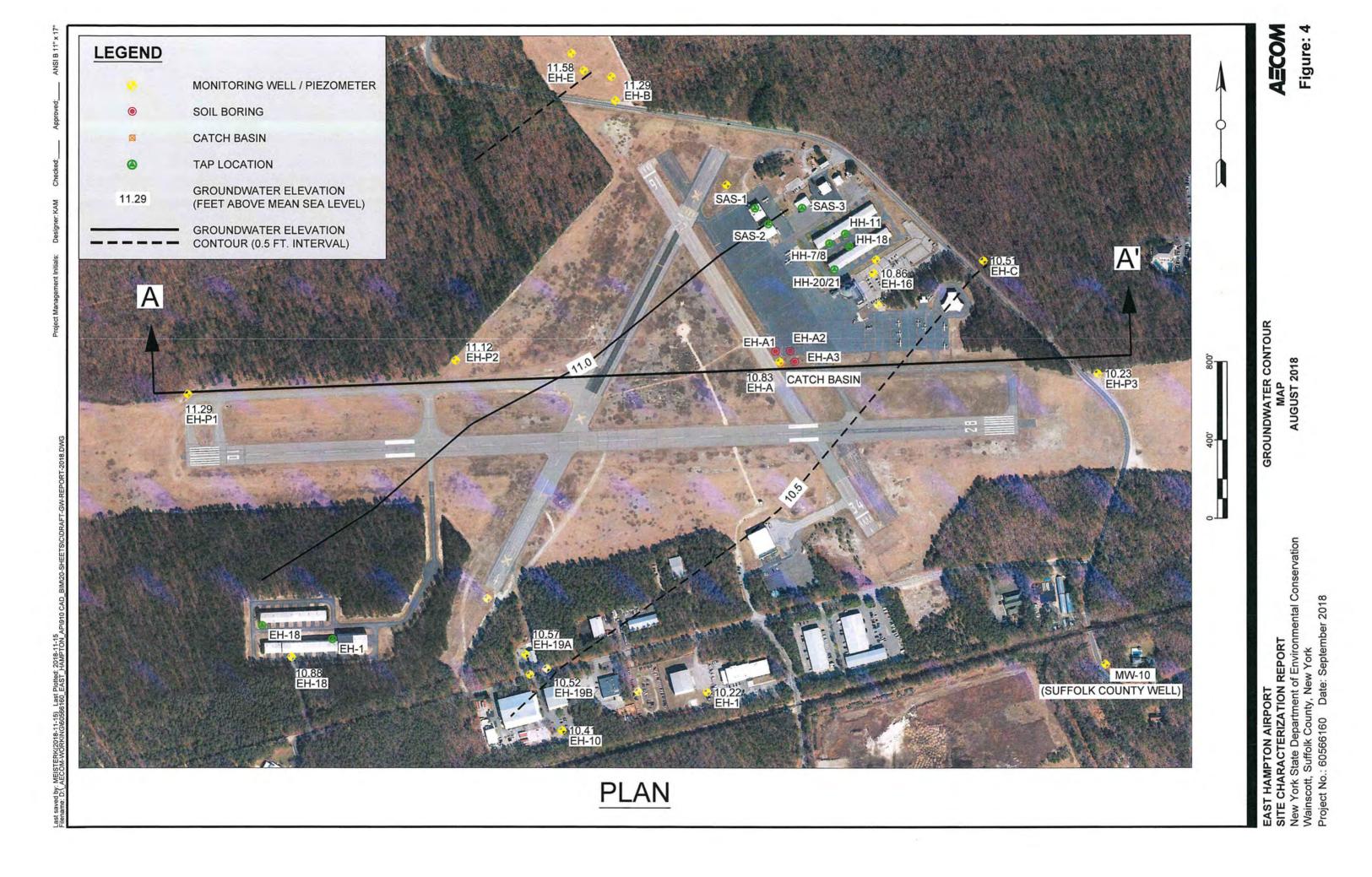


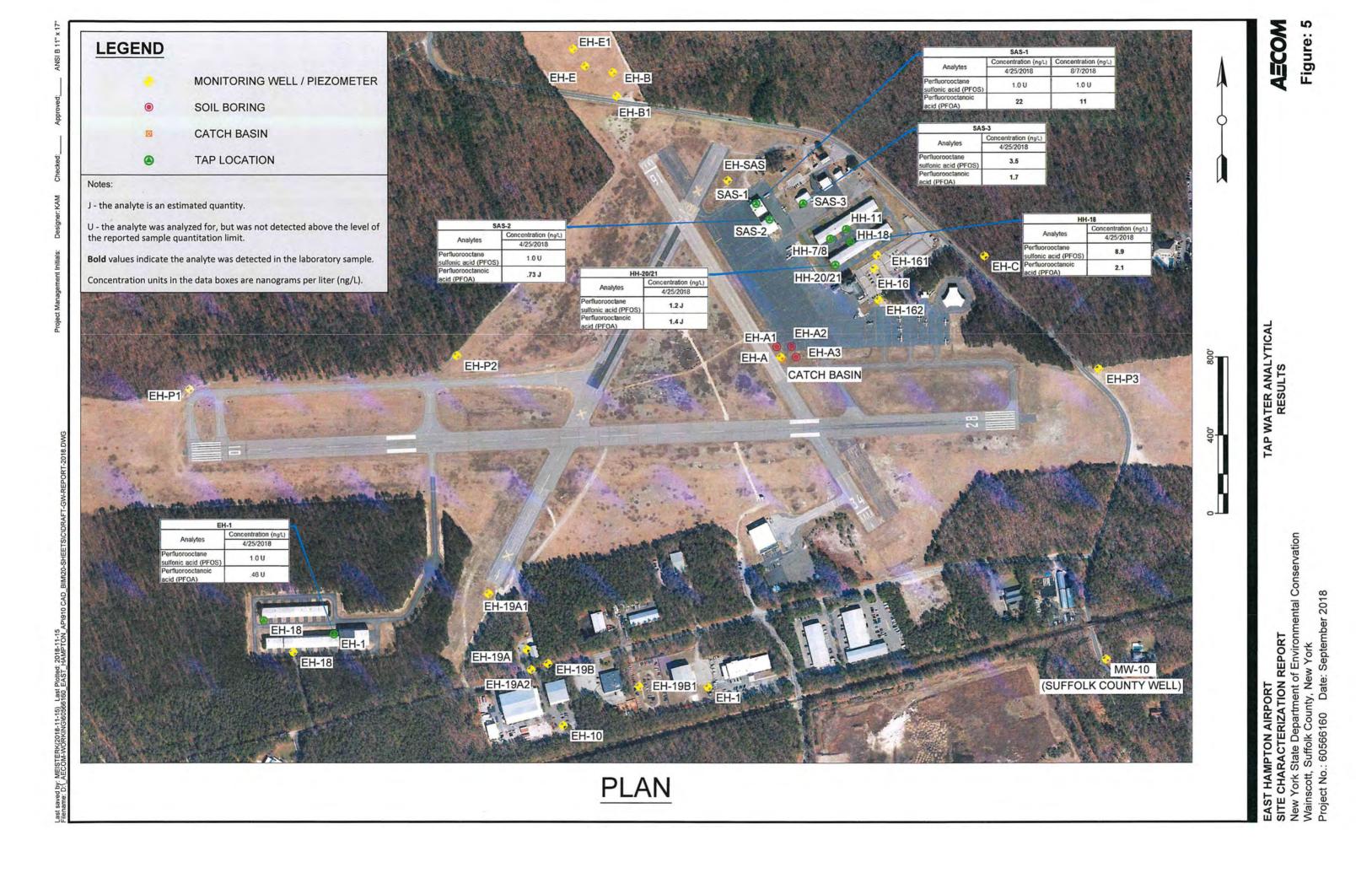


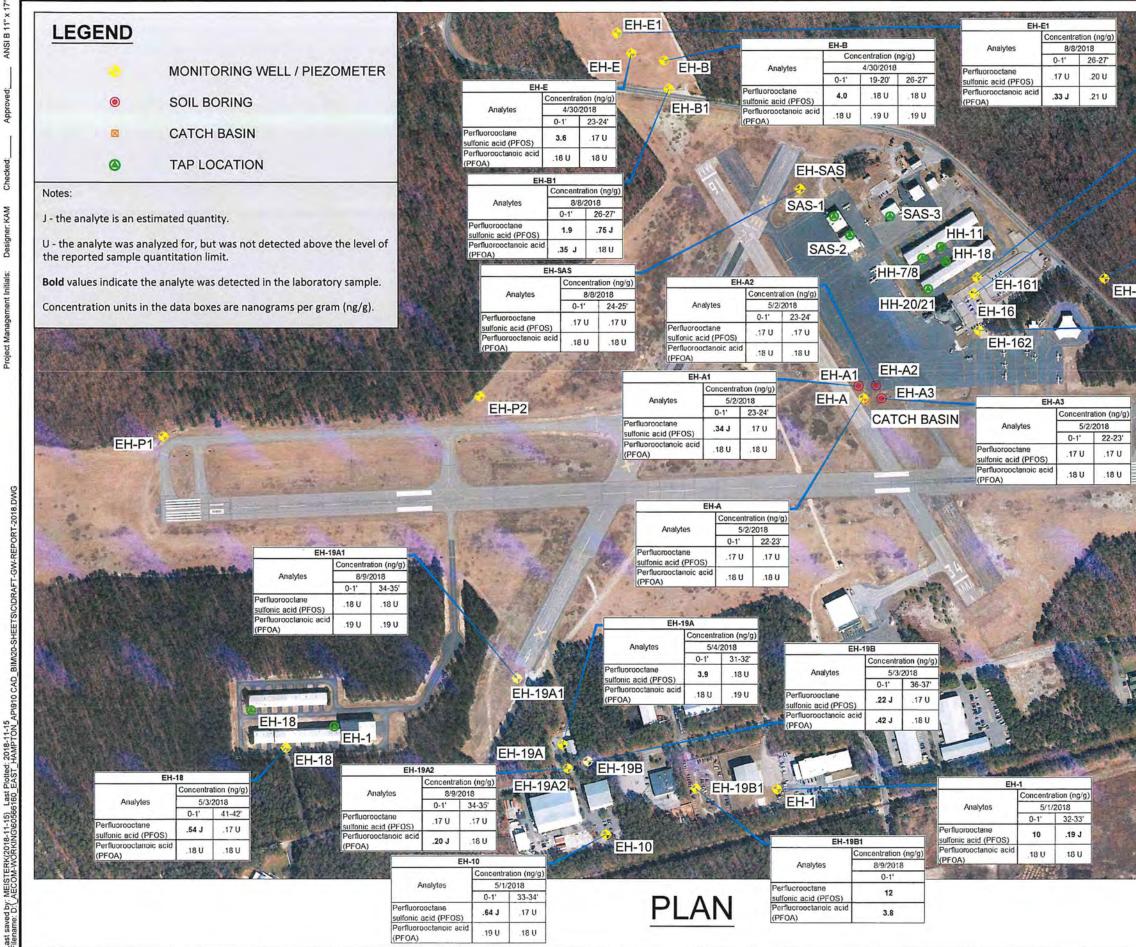
EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT

New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: September 2018 SECTION A - A'

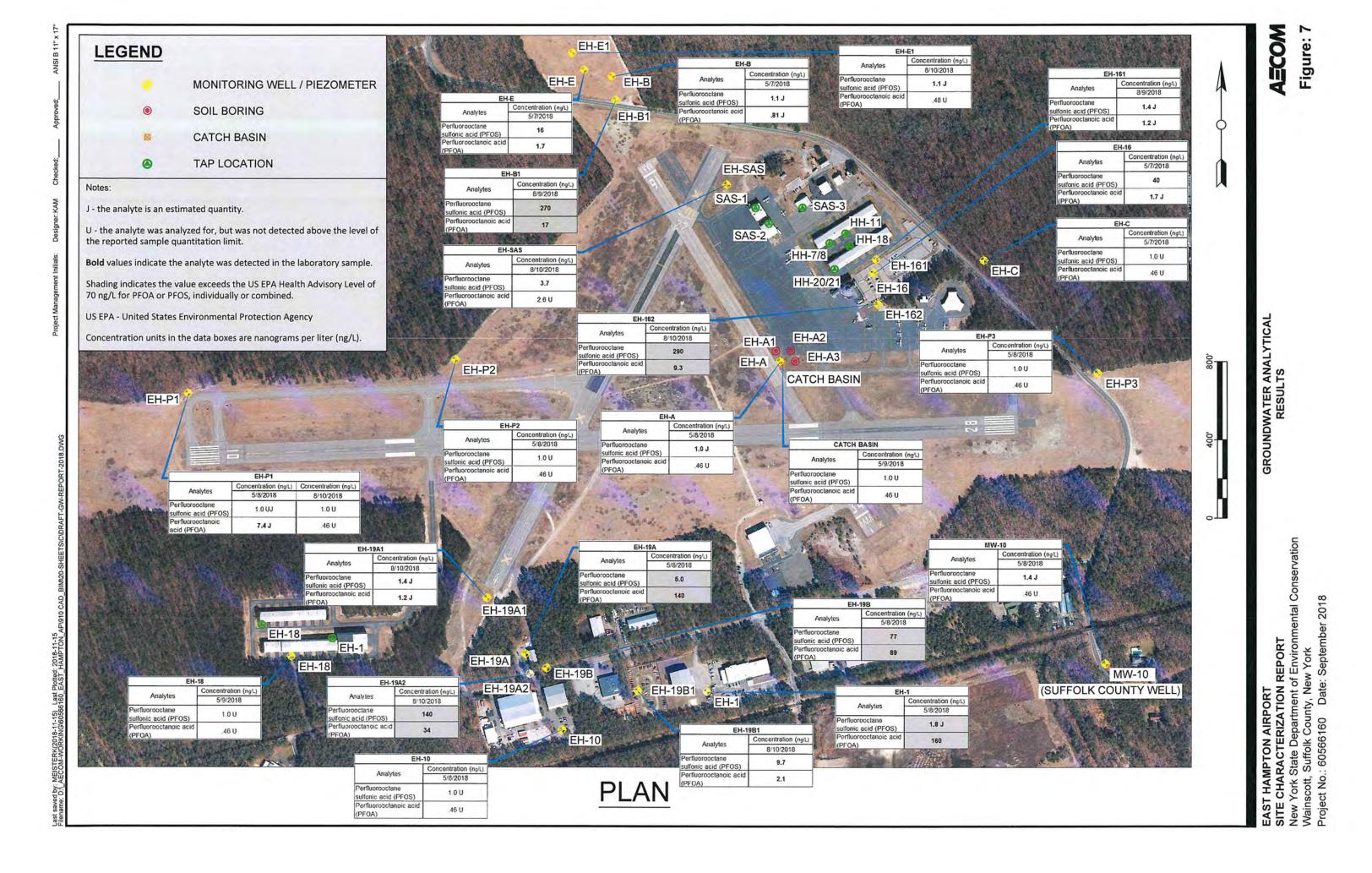
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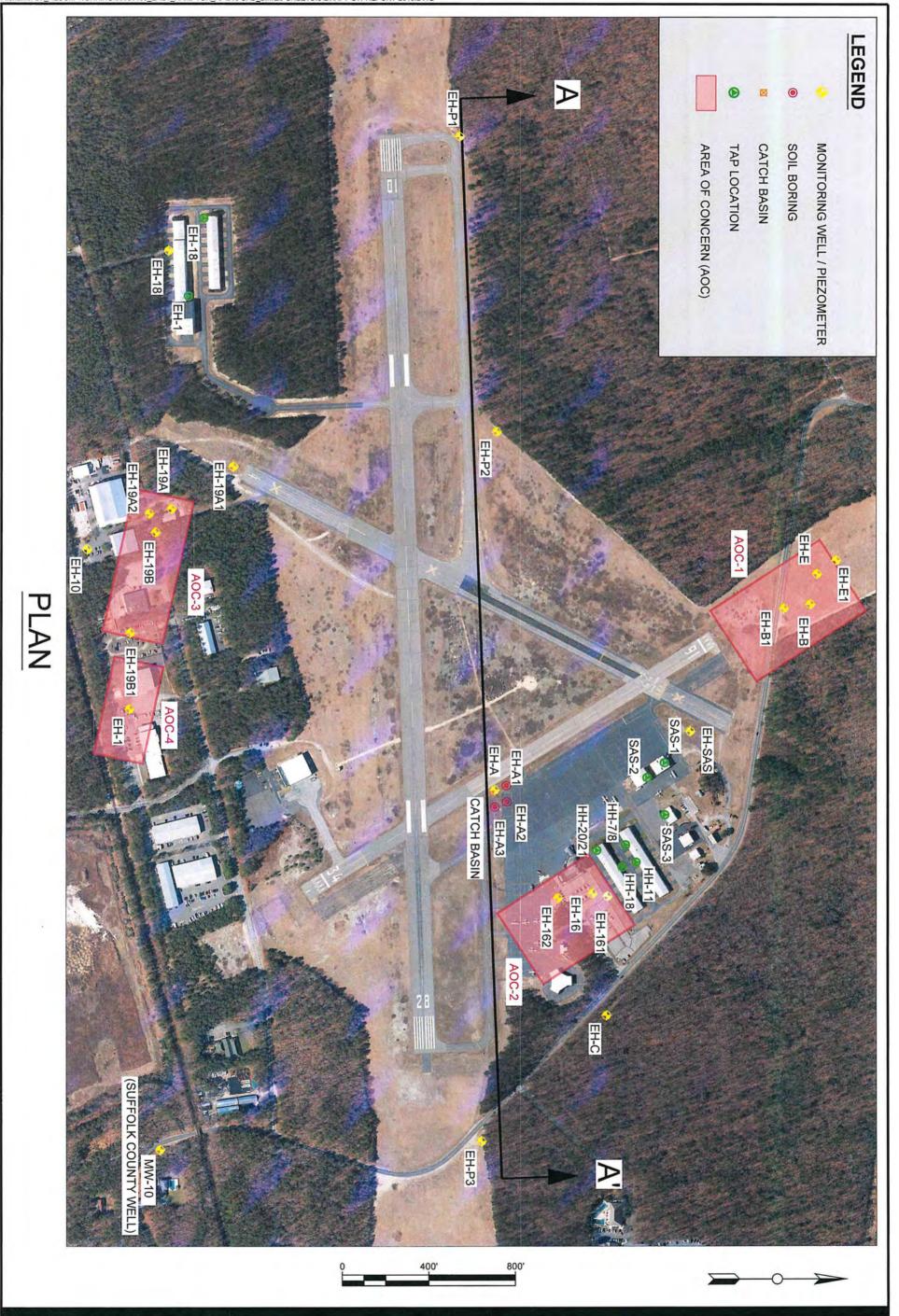






	EH-1 Analytes Perfluorooctane	Concentratio 8/8/201	and the second se	4	AECOM Figure: 6
ME	sulfonic acid (PFOS) Perfluorooctanoic acid	.35 J	.18U	6	
	(PFOA)	NUCLEUR DIST		Ĭ	
6.1	4		ration (ng/g)		
A.	Analytes	4/3 0-1'	0/2018 23-24'		
	Perfluorooctane sulfonic acid (PFOS	.72 J	.29 J		
1.1.1.	Perfluorooctanoic a (PFOA)		.18 U		
		EH-C			
1	Analytes		ration (ng/g) 1/2018 29-30'		
	Perfluorooctane	18 U	.18 U		
I-C	sulfonic acid (PFOS Perfluorooctanoic a (PFOA)		.19 U		
1000	E	H-162 Concentr	ation (ng/g)		
The l	Analytes	8/9	/2018		
18 18 18 18 18 18 18 18 18 18 18 18 18 1	Perfluorooctane	0-1'	24-25' .17 U		
AND DO THE	sulfonic acid (PFOS Perfluorooctanoic ac		.18 U		AL
and the second	(PFOA)	College States	E TATALE	[®] T	S IIO
)-		400'	SOIL ANALYTICAL RESULTS
					ntal Conservation 2018
	(SUFFOLK CC	E MW-10 DUNTY V	WELL)		EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: September 2018





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EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT

New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: September 2018 IDENTIFIED AREAS OF CONCERN AECOM Figure: 8

TABLES

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Table 1 Groundwater Sample Data

	1.1.1	Groundwater Sample Data													
Analytes	Health Advisory Water	Area		North	n Field		Sound Aircraft Services	Airport Parking Lot			Northwest Woods	Daniels Hole Road	East Hampton PD	ARFF	
	Quality Standards ¹	MW ID	EH-B	EH-B1	EH-E	EH-E1	EH-SAS	EH-16	EH-161	EH-162	EH-C	MW-10*	EH- 1	EH-19A	EH-19A1
		Date	5/7/2018	8/9/2018	5/7/2018	8/10/2018	8/10/2018	5/7/2018	8/9/2018	8/10/2018	5/7/2018	5/8/2018	5/8/2018	5/8/2018	8/10/2018
Perfluoroalkane Sulfonic Acids	L		1.2	All and and	1	a. ²			1.14	1					
Perfluorobutane sulfonic acid (PFBS)	NS		42	2.4 J	4.9	9.4	.90 U	.90 U	.90 U	4.2 J	.90 U	.90 U	8.3	360	12
Perfluorohexane sulfonic acid (PFHxS)	NS	1	130	34	52	24	1.8 J	2.1 J	1.3 J	68	.94 U	.94 U	730	240	1.5 J
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	2.8 J	.88 U	.88 U	.88 U	.88 U	.88 U	4.4	.88 U	.88 U	36	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		1.1 J	270	16	1.1 J	3.7	40	1.4 J	290	1.0 U	1.4 J	1.8 J	5.0	1.4 J
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids			12052 - 19												
Perfluorobutanoic acid (PFBA)	NS	17	37	6.5 J	5.6 J	2.7 U	2.7 U	5.4 J	2.7 U	4.2 J	2.7 U	2.7 U	37	710	3.9 J
Perfluoropentanoic acid (PFPeA)	NS		120	5.9	17	8.1	1.1 U	1.1 U	1.1 U	3.0 J	1.1 U	1.1 U	76	2600	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		150	13	17	11	.92 U	2.0 J	.92 U	8.9	.92 U	.92 U	65	2800	1.9 J
Perfluoroheptanoic acid (PFHpA)	NS	· · · · · · · · · · · · · · · · · · ·	8.9	2.7 J	2.2 J	1.2 U	1.2 U	2.1 J	1.2 U	3.3 J	1.3 J	1.2 U	40	1500	1.2 U
Perfluorooctanoic acid (PFOA)	70		.81 J	17	1.7	.48 U	2.6 U	1.7 J	1.2 J	9.3	.46 U	.46 U	160	140	1.2 J
Perfluorononanoic acid (PFNA)	NS		.94 U	1.0 J	1.7 U	.94 U	1.5 J	1.5 U	.94 U	.94 U	.99 U	.94 U	1.2 U	7.0 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		.92 U	.52 U	1.6 U	.52 U	.60 U	1.0 U	.70 J	.52 U	1.1 U	.67 U	.82 U	1.8 U	.52 U
Perfluoroundecanoic acid (PFUnDA)	NS		1.6 U	.31 U	1.1 U	.31 U	.31 U	1.8 U	1.6 J	.31 U	1.1 U	1.0 U	1.4 U	2.6 U	.31 U
Perfluorododecanoic acid (PFDoDA)	NS	1000	.76 U	.46 U	.87 U	.46 U	.46 U	1.4 U	.46 U	.46 U	_78 U	.89 U	1.2 U	1.1 U	.46 U
Perfluorotridecanoic acid (PFTrDA)	NS		.83 U	.75 U	.82 J	.75 U	.75 U	.94 J	.75 U	.75 U	1.2 J	.75 U	.90 U	1.7 U	.75 U
Perfluorotetradecanoic acid (PFTeDA)	NS	12 2 1	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides		1				1									
Perflurooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 U	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS	11. 2.3	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	8.3 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids								1,21,01,01	1.1.1.1	192716					
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.6 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.0	7.0	1.6 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS	(S. 20)	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	2.8 J	.65 U

Notes:

NS - No standard exists

Detected concentrations are in bold font.

Detections exceeding the US EPA HAL of 70 ng/L for either PFOA, PFOS or a combination of both are highlighted in gray.

J - The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. Units are in ng/L (nanograms/liter)

* - MW-10 is a Suffolk County well installed during a previous investigation (not installed by AECOM)

1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

East Hampton Airport 200 Daniels Hole Road Wainscott, New York

	10.221						Ground	water Sam	ple Data				
Analytes	Health Advisory Water	Area	ARFF			Aircraft/Helicopter Taxiway		West End of Main Runway		Middle of Main Runway	East Field	Local Television Inc.	East End Hangars
	Quality Standards ¹	MW ID	EH-19A2	EH-19B	EH-19B1	EH-A	CATCH BASIN	EH	I-P1	EH-P2	EH-P3	EH-10	EH-18
		Date	8/10/2018	5/8/2018	8/10/2018	5/8/2018	5/9/2018	5/8/2018	8/10/2018	5/8/2018	5/8/2018	5/8/2018	5/9/2018
Perfluoroalkane Sulfonic Acids					- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-				1000			1	
Perfluorobutane sulfonic acid (PFBS)	NS		8.5	29	8.5	.90 U	.90 U	1.0 J	.90 U	.90 U	.90 U	.90 U	.90 U
Perfluorohexane sulfonic acid (PFHxS)	NS		85	750	3.7 J	.94 U	.94 U	3.0 J	1.0 J	.94 U	1.0 J	.94 U	.94 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		2.1 J	12	.88 U	.88 U	.88 U	0.88 UJ	.88 U	.88 U	.88 U	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		140	77	9.7	1.0 J	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)	NS	1.1.1	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids	1.		h				1	1					
Perfluorobutanoic acid (PFBA)	NS		82	61	8.8	2.7 U	2.7 U	3.7 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Perfluoropentanoic acid (PFPeA)	NS	·	140	170	6.5	1.1 U	1.1 U	6.8 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorohexanoic acid (PFHxA)	NS	/	150	200	7.7	.92 U	.92 U	9.9 J	.92 U	.92 U	.92 U	.92 U	.92 U
Perfluoroheptanoic acid (PFHpA)	NS		99	180	1.2 U	1.6 U	2.6 U	8.0 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluorooctanoic acid (PFOA)	70		34	89	2.1	.46 U	.46 U	7.4 J	.46 U	.46 U	.46 U	.46 U	.46 U
Perfluorononanoic acid (PFNA)	NS	ALC: NOT THE	17	14	.94 U	1.5 U	2.1 U	8.9 UJ	.94 U	1.0 U	1.1 J	.94 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		4.1 J	2.3 U	.52 U	2.3 U	1.5 U	9.5 UJ	.52 U	1.0 U	.93 U	1.0 U	.71 U
Perfluoroundecanoic acid (PFUnDA)	NS		2.2 J	2.2 U	1.1 J	1.5 U	1.6 U	12 J	.43 J	1.3 U	1.1 U	1.4 U	1.2 U
Perfluorododecanoic acid (PFDoDA)	NS	1.000	.46 U	.63 U	.46 U	.67 U	1.7 U	21 J	.46 U	1.1 U	.87 U	.96 U	.86 U
Perfluorotridecanoic acid (PFTrDA)	NS		.75 U	1.2 U	.75 U	1.1 U	1.5 U	20 J	.75 U	1.2 U	1.3 J	1.1 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	19 J	1.3 J	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides													
Perflurooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.35 U	.35 U	.35 U	.35 UJ	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.83 U	.83 U	.83 U	.83 UJ	.83 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS	1.200	3.9 J	120	1.2 U	1.2 U	1.2 U	1.4 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		50	14	5.0	.65 U	.65 U	.65 UJ	.65 U	.65 U	.65 U	.65 U	.65 U

NS - No standard exists

Detected concentrations are in bold font.

Detections exceeding the US EPA HAL of 70 ng/L for either PFOA, PFOS or a combination of both are highlighted in gray.

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* - MW-10 is a Suffolk County well installed during a previous investigation (not installed by AECOM)

1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

East Hampton Airport 200 Daniels Hole Road Wainscott, New York

Analytes	Health Advisory Water	Area	QA/QC Samples													
	Quality Standards ¹	MW ID	DUP			EQUIPME	NT BLANK		1	IELD BLAN	ĸ		MS	/MSD		
		Date	5/8/2018	8/10/2018	5/7/2018	5/8/2018	5/9/2018	8/10/2018	5/7/2018	5/8/2018	8/10/2018	5/8/2018	5/8/2018	8/10/2018	8/10/2018	
Perfluoroalkane Sulfonic Acids		2010.0	12111				1.1.1.1.1	1				A				
Perfluorobutane sulfonic acid (PFBS)	NS	$\beta = 10$.90 U	9.1	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	
Perfluorohexane sulfonic acid (PFHxS)	NS		.94 U	57	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	
Perfluoroheptane sulfonic acid (PFHpS)	NS	1 - 10	,88 U	1.6 J	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	
Perfluorooctane sulfonic acid (PFOS)	70		1.3 J	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Perfluorodecane sulfonic acid (PFDS)	NS	112220	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Perfluoroalkane Carboxylic Acids																
Perfluorobutanoic acid (PFBA)	NS	1	2.7 U	73	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	
Perfluoropentanoic acid (PFPeA)	NS	1	1.1 U	160	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
Perfluorohexanoic acid (PFHxA)	NS		.92 U	130	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	
Perfluoroheptanoic acid (PFHpA)	NS		1.2 U	100	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.4 J	1.2 U	1.2 U	
Perfluorooctanoic acid (PFOA)	70		.46 U	28	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.55 J	
Perfluorononanoic acid (PFNA)	NS		.94 U	13	.94 U	.94 U	.94 U	.94 U	1.0 J	.94 U	.94 U	.94 U	1.1 J	.94 U	.94 U	
Perfluorodecanoic acid (PFDA)	NS	11	.82 U	3.4 U	.52 U	.73 U	.68 U	.52 U	.71 U	.52 U	.52 U	.87 J	.84 J	.52 U	.60 J	
Perfluoroundecanoic acid (PFUnDA)	NS		1.0 U	1.3 J	.85 U	.90 U	.73 U	.31 U	.94 U	.87 U	.31 U	1.1 J	1.0 J	.31 U	.31 U	
Perfluorododecanoic acid (PFDoDA)	NS	1122.24	.58 U	.46 U	.55 U	.80 U	.73 U	.46 U	.75 U	.46 U	.46 U	.81 J	.95 J	.46 U	.46 U	
Perfluorotridecanoic acid (PFTrDA)	NS	1	.78 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.79 J	.75 U	.75 U	
Perfluorotetradecanoic acid (PFTeDA)	NS	1	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Perfluoroalkyl Sulfonamides				-									1.55	DC		
Perflurooctane sulfonamide (FOSA)	NS	1.	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 U	4.2 U	4.2 U	
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS	it is a second	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	
(n:2) Fluorotelomer Sulfonic Acids			· · · · · · · · · · · · · · · · · · ·							0.400	Annal Annal S					
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	5.1	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	46	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	

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East Hampton Airport 200 Daniels Hole Road Wainscott, New York

in gray. nalyte in the sample

Table 2 Tap Water Sample Data

East Hampton Airport 200 Daniels Hole Rd Wainscott, New York

					Tap Water	Sample D	ata						
Analytes	Health Advisory Water Quality	Area	Hampton	Hangars		Sound Aire	craft Servic	es	East Hampton Hangars	QA/QC SAMPLES			
	Standards ¹	Sample ID	HH-20/21	HH-18	SA	S-1	SAS-2	SAS-3	EH-1	DUP	FIELD BLANK	MS/MSD	
		Date	4/25/2018	4/25/2018	4/25/2018	8/7/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	
Perfluoralkane Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	NS		.90 U	.90 U	29	8.7	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	
Perfluorohexane sulfonic acid (PFHxS)	NS		5.8	6.6	160	78	1.6 J	3.8 J	1.0 J	1.3 J	.94 U	.94 U	
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	
Perfluorooctane sulfonic acid (PFOS)	70		1.2 J	8.9	1.0 U	1.0 U	1.0 U	3.5	1.0 U	1.0 U	1.0 U	1.0 U	
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Perfluroralkane Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	NS		2.7 U	2.7 U	3.4 J	2.8 J	4.1 J	2.7 U	2.7 U	3.3 J	2.7 U	2.7 U	
Perfluoropentanoic acid (PFPeA)	NS		1.1 U	1.1 U	8.9	3.1 J	4.2 J	1.1 U	1.1 U	3.8 J	1.1 U	1.1 U	
Perfluorohexanoic acid (PFHxA)	NS		1.2 J	.92 U	22	12	4.1 J	.92 U	.92 U	3.9 J	.92 U	.92 U	
Perfluoroheptanoic acid (PFHpA)	NS		1.6 J	2.0 J	7.3	2.5 J	1.7 J	1.7 J	1.2 U	1.7 J	1.2 U	1.2 U	
Perfluorooctanoic acid (PFOA)	70		1.4 J	2.1	22	11	.73 J	1.7	.46 U	.71 J	.46 U	.46 U	
Perfluorononanoic acid (PFNA)	NS		.94 U	1.2 J	1.0 J	.94 U	.94 U	1.0 J	.94 U	.99 J	.94 U	.94 U	
Perfluorodecanoic acid (PFDA)	NS		1.0 U	.99 U	.86 U	.52 U	.87 U	.82 U	.81 U	.58 U	.84 U	.92 J	
Perfluoroundecanoic acid (PFUnDA)	NS		.90 U	1.0 U	1.1 U	.31 U	.79 U	1.1 U	1.2 U	.88 U	.96 U	1.1 J	
Perfluorododecanoic acid (PFDoDA)	NS		.58 U	.52 U	.83 U	.46 U	.70 U	.46 U	.68 U	.46 U	.76 U	.74 J	
Perfluorotridecanoic acid (PFTrDA)	NS		.75 U	.75 U	.75 U	.75 U	.92 U	.75 U	.75 U	.75 U	.75 U	.92 J	
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	1.4 J	1.2 U	1.6 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Perfluoroalkyl Sulfonamides													
Perfluorooctane sulfonamide (FOSA)	NS		.37 J	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 U	4.2 U	4.2 U	4.2 UJ	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		0.83 UJ	0.83 UJ	0.83 UJ	.83 U	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	.83 U	
(n:2) Fluorotelomer Sulfonic Acids													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	

Notes:

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Units are in ng/L (nanograms/liter)

1 - United States Environmental Protection Agency-established Drinking Water Health Advisory Level

	1									So	il Samp	le Data										
	Area	North Field								Sound Aircraft Services		Airport Parking Lot					Northwest Woods		East Hampton PD			
Analytes	Boring ID		EH-B		Eŀ	I-B1	E	ł-Ε	EH	-E1	EH-	SAS	EH	-16	EH	-161	Eł	H-162	E	H-C	E	H-1
	Date	4	1/30/201	8	8/8/	2018	4/30	/2018	8/8/2	2018	8/8/	2018	4/30	2018	8/8/	2018	8/9	/2018	5/1/	2018	5/1/	2018
	Boring Interval (fbg)	0-1'	19-20'	26-27'	0-1'	26-27'	0-1'	23-24'	0-1'	26-27'	0-1'	24-25'	0-1'	23-24'	0-1'	28-29'	0-1'	24-25'	0-1'	29-30'	0-1'	32-33
Perfluoroalkane Sulfonic Acids								-	_													
Perfluorobutance sulfonic acid (PFBS)		.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
Perluorohexane sulfonic acid (PFHxS)	1	.53 J	.22 J	.29 J	.27 U	.21 U	.25 J	.20 J	.27 U	.28 U	.18 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.18 U	.19 J	.17 U	.20 J
Perfluoroheptane sulfonic acid (PFHpS)	1	.14 U	.15 U	.15 U	.15 U	.14 U	.14 U	.14 U	.14 U	.16 U	.14 U	.14 U	.14 U	.14 U	.15 U	.14 U	.14 U	.14 U	.15 U	.15 U	.14 U	.14 U
Perfluorooctane sulfonic acid (PFOS)		4.0	.18 U	.18 U	1.9	.75 J	3.6	.17 U	.17 U	.20 U	.17 U	.17 U	.72 J	.29 J	.33 J	.17 U	.20 J	.17 U	.18 U	.18 U	10	.19 J
Perfluorodecane sulfonic acid (PFDS)		.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
Perfluoroalkane Carboxylic Acids		1.1														1997 - E		1				
Perfluorobutanoic acid (PFBA)		.18 U	.19 U	.19 U	.19 U	.18 U	.18 U	.18 U	.18 U	.21 U	.18 U	.18 U	.18 U	.18 U	.19 U	.18 U	.18 U	.18 U	.19 U	.19 U	.18 U	.18 U
Perfluoropentanoic acid (PFPeA)		.19 U	.20 U	.20 U	.20 U	.19 U	.19 U	.19 U	.20 J	.22 U	.19 U	.19 U	.19 U	.19 U	.21 U	.19 U	.19 U	.19 U	.48 J	.20 U	.19 U	.19 U
Perfluorohexanoic acid (PFHxA)		.21 U	.22 U	.22 U	.22 U	.21 U	.21 U	.21 U	.34 J	.24 U	.21 U	.21 U	.21 U	.21 U	.23 U	.21 U	.21 U	.21 U	.51 J	.22 U	.21 U	.21 U
Perfluoroheptanoic acid (PFHpA)		.28 J	.26 J	.32 J	.23 U	.22 U	.27 J	.22 J	.22 U	.26 U	.22 U	.22 U	.23 J	.22 U	.24 U	.22 U	.22 U	.22 U	.51 J	.24 J	.24 J	.22 U
Perfluorooctanoic acid (PFOA)		.18 U	.19 U	.19 U	.35 J	.18 U	.18 U	.18 U	.33 J	.21 U	.18 U	.18 U	.18 U	.18 U	.26 J	.18 U	.18 U	.18 U	.23 J	.19 U	.18 U	.18 U
Perfluorononanoic acid (PFNA)		.32 U	.25 U	.27 U	.32 J	.18 U	.48 U	.24 U	.18 U	.21 U	.18 U	.18 U	.24 U	.19 U	.19 U	.18 U	.18 U	.18 U	.32 U	.26 U	.55 U	.25 U
Perfluorodecanoic acid (PFDA)		.41 U	.25 U	.21 U	.21 U	.20 U	.29 U	.21 U	.20 U	.23 U	.20 U	.20 U	.20 U	.20 U	.22 U	.20 U	.20 U	.20 U	.25 U	.21 U	.27 U	.21 U
Perfluoroundecanoic acid (PFUnDA)		.26 J	.26 U	.26 U	.26 U	.25 U	.25 U	.25 U	.25 U	.29 U	.25 U	.25 U	.25 U	.25 U	.27 U	.25 U	.25 U	.25 U	.26 U	.26 U	.25 U	.25 U
Perfluorododecanoic acid (PFDoDA)		.26 U	.27 U	.27 U	.27 U	.26 U	.26 U	.26 U	.26 U	.30 U	.26 U	.26 U	.26 U	.26 U	.28 U	.26 U	.26 U	.26 U	.27 U	.27 U	.26 U	.26 U
Perfluorotridecanoic acid (PFTrDA)		.24 J	.21 J	.16 U	.16 U	.15 U	.19 J	.15 U	.15 U	.18 U	.15 U	.15 U	.15 U	.15 J	.16 U	.15 U	.15 U	.15 U	.18 J	.16 U	.15 U	.15 U
Perfluorotetradecanoic acid (PFTeDA)		.38 U	.39 U	.39 U	.39 U	.38 U	.38 U	.38 U	.38 U	.44 U	.38 U	.38 U	.38 U	.38 U	.41 U	.38 U	.38 U	.38 U	.40 U	.39 U	.38 U	.38 U
Perfluoroalkyl Sulfonamides			_				-24			1.000										1	· · · · ·	
Perflurooctane sulfonamide (FOSA)		.13 U	.14 U	.14 U	.14 U	.13 U	.13 U	.13 U	.13 U	.15 U	.13 U	.13 U	.13 U	.13 U	.14 U	.13 U	.13 U	.13 U	.14 U	.14 U	.13 U	.13 U
N-Methyl perfluorooctane sulfonamidoacetic		.085 U	.086 U	.088 U	.24 J	.31 J	.085 U	.085 U	.085 UJ	.45 J	.085 UJ	.085 UJ	.085 U	.085 U	.09 UJ	.085 UJ	.41 J	.085 UJ	.088 L	.087 U	.085 U	.085 L
N-Ethyl perfluorooctane sulfonamidoacetic a	cid	.11 U	.12 U	.12 U	.12 U	.11 U	.11 U	.11 U	.11 U	1.3	.11 U	.11 U	.11 U	.11 U	.12 U	.11 U	.11 U	.11 U	.12 U	.12 U	.11 U	.11 U
(n:2) Fluorotelomer Sulfonic Acids																. E.J.						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		.22 U	.23 U	.23 U	.23 U	.22 U	.22 U	.22 U	.22 U	.26 U	.22 U	.22 U	.22 U	.22 U	.24 U	.22 U	.22 U	.22 U	.23 U	.23 U	.22 U	.22 U

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U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. Units for soil results are ng/g (nanograms/gram)

Units for field and equipment blanks are ng/L (nanograms/liter)

East Hampton Airport 200 Daniels Hole Rd Wainscott, New York

											13	Soil San	mple Da	ata								
	Area		ion Inc.			Aircra	ft/ Helic	opter T	Taxiway				End gars		- 2			ARFF				
Analytes	Boring ID	Eł	1-10	E	H- A	EH	- A1	EH	I-A2	EH	-A3	EH	-18	EH	-19A	EH-	19A1	EH-	19A2	EH	19B	EH-19B1
	Date	5/1/	2018	5/2	2018	5/2/	2018	5/2/	2018	5/2/	2018	5/3/	2018	5/4/	2018	8/9/	2018	8/9/	2018	5/3/	2018	8/9/2018
	Boring Interval (fbg)	0-1'	33-34'	0-1'	22-23'	0-1'	23-24'	0-1'	23-24'	0-1'	22-23'	0-1 '	41-42'	0-1'	31-32'	0-1'	34-35'	0-1'	34-35'	0-1'	36-37'	0-1'
Perfluoroalkane Sulfonic Acids	1	+						-														
Perfluorobutance sulfonic acid (PFBS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 UJ	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.18 U	.17 U	.18 U
Perluorohexane sulfonic acid (PFHxS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.19 J	.17 U	.18 U	.59 U	.18 U	.17 U	.17 U	.28 J	.17 J	3.8
Perfluoroheptane sulfonic acid (PFHpS)		.15 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.15 U	.15 U	.15 U	.14 U	.14 U	.15 U	.14 U	1.9
Perfluorooctane sulfonic acid (PFOS)		.64 J	.17 U	.17 U	.17 U	.34 J	.17 U	.17 U	.17 U	.17 U	.17 U	.54 J	.17 U	3.9	.18 U	.18 U	.18 U	.17 U	.17 U	.22 J	.17 U	12
Perfluorodecane sulfonic acid (PFDS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	,17 U	.17 U	.18 U	.17 U	.18 U
Perfluoroalkane Carboxylic Acids					-			100											_	1.1		
Perfluorobutanoic acid (PFBA)		.19 U	18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.19 U	.19 U	.19 U	.18 U	.18 U	.18 U	.18 U	.19 U
Perfluoropentanoic acid (PFPeA)		.20 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.20 U	.20 U	.20 U	.19 U	.19 U	.19 U	.19 U	.48 J
Perfluorohexanoic acid (PFHxA)		.22 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.22 U	.23 J	.22 U	.21 U	.21 U	.21 U	.21 U	.75 J
Perfluoroheptanoic acid (PFHpA)		.23 U	.22 U	.22 U	.22 U	.25 J	.22 U	.22 U	.22 U	.22 U	.22 U	.26 U	.22 U	.22 U	.29 U	.23 U	.23 U	.22 U	.22 U	.30 U	.22 U	.24 U
Perfluorooctanoic acid (PFOA)		.19 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.19 U	.19 U	.19 U	.20 J	.18 U	.42 J	.18 U	3.8
Perfluorononanoic acid (PFNA)		.24 U	.18 U	.29 U	.18 U	.24 U	.25 U	.18 U	.23 U	.21 U	.23 U	.29 U	.25 U	.49 U	.22 U	.19 U	.19 U	.18 U	.18 U	.25 U	.18 U	.49 J
Perfluorodecanoic acid (PFDA)		.21 U	.21 U	.23 U	.20 U	.20 U	.20 U	.20 U	.21 U	.25 U	.25 U	.21 U	.22 U	.21 U	.21 U	.21 U	.21 U	.20 U	.20 U	.22 U	.20 U	.21 U
Perfluoroundecanoic acid (PFUnDA)		.26 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.26 U	.26 U	.26 U	.25 U	.25 U	.26 U	.25 U	.27 U
Perfluorododecanoic acid (PFDoDA)		.27 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.27 U	.27 U	.27 U	.26 U	.26 U	.27 U	.26 U	.28 U
Perfluorotridecanoic acid (PFTrDA)		.16 U	.15 U	.19 J	.20 J	.16 J	.17 J	.15 U	.15 U	.15 U	.17 J	.16 J	.15 U	.15 U	.16 U	.16 U	.16 U	.15 U	.15 U	.16 J	.20 J	.16 U
Perfluorotetradecanoic acid (PFTeDA)		.39 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.39 U	.39 U	.39 U	.38 U	.38 U	.39 U	.38 U	.40 U
Perfluoroalkyl Sulfonamides										1.11												1. A.
Perflurooctane sulfonamide (FOSA)		.14 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.14 U	.14 U	.14 U	.13 U	.13 U	.14 U	.13 U	.14 U
N-Methyl perfluorooctane sulfonamidoaceti	c acid	.086 U	.085 U	.085 L	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.087 U	.086 UJ	.086 UJ	.085 UJ	.085 UJ	.087 U	.085 U	U 0.09 UJ
N-Ethyl perfluorooctane sulfonamidoacetic		.12 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.12 U	.12 U	.12 U	.11 U	.11 U	.12 U	.11 U	.12 U
(n:2) Fluorotelomer Sulfonic Acids		1		1.00		1.50	100				10 - 11	10 Carlos - 1							-		-	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.18 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		.23 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.23 U	.23 U	.23 U	.22 U	.22 U	.22 U	.22 U	.24 U

Detected concentrations are in bold font.

J - The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. The depth interval of the soil sample indicates feet below grade (fbg).

U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. Units for soil results are ng/g (nanograms/gram)

Units for field and equipment blanks are ng/L (nanograms/liter)

East Hampton Airport 200 Daniels Hole Rd Wainscott, New York

	Area Boring ID Date	QA/QC Samples														
Analytes		DUP-1	DUP-2	DUP	EQ- BLANK 1	EQ- BLANK 2	EQ- BLANK 3	EQ- BLANK 4	EQ- BLANK 5	EQ- BLANK	FIELD BLANK 1	FIELD BLANK 2	FIELD BLANK	MS/MSD 1	5/2/2018	MS/MSD
		5/1/2018	5/1/2018	8/8/2018	4/30/2018	5/1/2018	5/2/2018	5/3/2018	5/4/2018	8/8/2018	5/1/2018	5/3/2018	8/8/2018			8/8/2018
E	Boring Interval (fbg)	÷	1.5	4	1 F.1	E.	1.10	-	-	i.	1.5-0	-	-			1.14
Perfluoroalkane Sulfonic Acids					1	-										
Perfluorobutance sulfonic acid (PFBS)		.17 U	.17 U	.19 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.17 U	.17 U	.17 U
Perluorohexane sulfonic acid (PFHxS)		.17 U	.37 J	.30 U	.94 U	.94 U	.94 U	.94 U	.96 J	.94 U	.94 U	.94 U	.94 U	.17 U	.17 U	.24 J
Perfluoroheptane sulfonic acid (PFHpS)		.14 U	.14 U	.15 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.14 U	.14 U	.14 U
Perfluorooctane sulfonic acid (PFOS)	-	15	.35 J	.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	.17 U	.17 U	.17 U				
Perfluorodecane sulfonic acid (PFDS)		.17 U	.17 U	.19 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	.17 U	.17 U	.17 U
Perfluoroalkane Carboxylic Acids		1									-					
Perfluorobutanoic acid (PFBA)		.18 U	.18 U	.20 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	.18 U	.18 U	.18 U
Perfluoropentanoic acid (PFPeA)		.19 U	.19 U	.21 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	.19 U	.19 U	.19 U
Perfluorohexanoic acid (PFHxA)		.21 U	.21 U	.23 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.21 U	.21 U	.21 U
Perfluoroheptanoic acid (PFHpA)		.25 J	.25 J	.24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.22 U	.22 J	.22 U
Perfluorooctanoic acid (PFOA)		.18 U	.18 U	.38 J	.46 U	.46 U	.46 U	.46 U	.46 U	.18 U	.18 U	.18 U				
Perfluorononanoic acid (PFNA)		.47 U	.24 U	.20 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.22 J	.20 J	.18 U
Perfluorodecanoic acid (PFDA)		.24 U	.21 U	.22 U	.74 U	.55 U	.54 U	.68 U	.55 U	.52 U	.69 U	.52 U	.52 U	.22 J	.21 J	.20 U
Perfluoroundecanoic acid (PFUnDA)		.25 U	.25 U	.27 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.27 U	.27 U	.25 U
Perfluorododecanoic acid (PFDoDA)		.26 U	,26 U	.28 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.28 U	.28 U	.26 U
Perfluorotridecanoic acid (PFTrDA)		.15 U	.15 U	.16 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.16 U	.16 U	.15 U
Perfluorotetradecanoic acid (PFTeDA)		.38 U	.38 U	.41 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.41 U	.41 U	.38 U
Perfluoroalkyl Sulfonamides									2121							
Perflurooctane sulfonamide (FOSA)		.13 U	.13 U	.14 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.13 U	.13 U	.13 U
N-Methyl perfluorooctane sulfonamidoacetic ad		.085 U	.085 U	.33 J	4.2 U	4.2 UJ	4.2 U	4.2 U	4.2 UJ	.085 U	.085 U	.085 U				
N-Ethyl perfluorooctane sulfonamidoacetic acid	d	,11 U	.11 U	.12 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.11 U	.11 U	.11 U
(n:2) Fluorotelomer Sulfonic Acids		11-1-1														
5:2 Fluorotelomer sulfonic acid (6:2 FTS)		,17 U	.17 U	.19 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.17 U	.17 U	.17 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		.22 U	.22 U	.24 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.22 U	.22 U	.22 U

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East Hampton Airport 200 Daniels Hole Rd Wainscott, New York

APPENDIX F

Suffolk County Groundwater PFAS Data

Suffolk County Department of Health Services Location of Profile Wells East Hampton, NY May 23, 2018

WPFC-12

FC.1

US Survey feet

WPFC-8

VPFC-2

WPFC_25 WPFC-22

WPFC-20

Legend
No PFOA/PFOS Detection
PFOA/PFOS Detection Below HAL
PFOA/PFOS Detection Above HAL

WPFC-16

	MP (using				
	airport	DTW			
Well ID	benchmark)	(8-7-18)	GW Elevation	Long	Lat
WPFC-1	56.96	44.59	12.37	-72.265	40.95412
WPFC-2	68.75	56.35	12.40	-72.265	40.95612
WPFC-3	51.48	39.35	12.13	-72.2622	40.95479
WPFC-4	52.29	40.24	12.05	-72.2574	40.95505
WPFC-5	44.82	33.06	11.76	-72.2518	40.95614
WPFC-6	43.14	31.63	11.51	-72.2499	40.9564
WPFC-7	42.00	30.69	11.31	-72.249	40.95535
WPFC-8	21.89	11.87	10.02	-72.2458	40.95717
WPFC-9	23.62	13.85	9.77	-72.2437	40.9571
WPFC-10	26.85	17.38	9.47	-72.243	40.95829
WPFC-11	18.36	9.00	9.36	-72.2433	40.95559
WPFC-12	12.82	5.53	7.29	-72.2415	40.9513
WPFC-13	13.02	6.32	6.70	-72.2407	40.9505
WPFC-14	17.59	10.48	7.11	-72.2415	40.95015
WPFC-15	9.19	2.88	6.31	-72.2399	40.95077
WPFC-16	69.64	55.63	14.01	-72.2717	40.96108
WPFC-17	76.38	62.51	13.87	-72.2727	40.96066
WPFC-18	78.40	64.75	13.65	-72.2723	40.95993
WPFC-19	20.97	8.70	12.27	-72.2552	40.96624
WPFC-20	19.68	7.58	12.10	-72.2556	40.96437
WPFC-21	37.92	26.03	11.89	-72.2539	40.96396
WPFC-22	33.84	26.55	7.29	-72.2463	40.9426
WPFC-23	41.35	32.62	8.73	-72.2509	40.94522
WPFC-24	52.86	42.58	10.28	-72.2583	40.94853
WPFC-25	40.02	31.72	8.30	-72.2509	40.94249
WPFC-26	37.06	28.48	8.58	-72.2476	40.94739
S-48518	34.96	26.40	8.56	-72.2474	40.94736

SCDHS Profile Well PFAS Results East Hampton PFAS Investigation

	Sample Inform	ation											Perflourin	ated Compou	inds									1
Well ID	Field Sample ID	Screen Interval (ft) (depth below grade)	Sample Date	PFBA ng/l	PFPeA ng/l	PFHxA ng/l	PFHpA ng/l	PFOA ng/l	PFNA ng/l	PFDA ng/l	PFUnA ng/l	PFDoA ng/l	PFTriA ng/l	PFTeA ng/l	PFBS ng/l	PFHxS ng/l	PFHpS ng/l	PFOS ng/l	PFDS ng/l	FOSA ng/l	NMeFOSSA ng/l	NEtFOSAA ng/l	6:2FTS ng/l	8:2FTS ng/l
	Drinking Water Standard Sub	part 5-1 (MCL) i	ng/l	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
USEPA Heal	th Advisory Level (HAL) 70 ng/ PFOA, PFO		'0 ng/l Individual	•	•	•		70										70	· .	•			-	-
WPFC-3	050-816-180227	45-50	2/27/2018	<1.94	<1.94	<1.94	<1.94	<1.94	<1.94	<1,94	<1.94	<1.94	<1.94	<1.94	<1.94	0.28	<1.94	<1.94	<1.94	<1.94	<19.4	<19.4	<19.4	+ 19.4
WPFC-3	060-816-180227	55-60	2/27/2018	<1.95	<1.95	< 1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	0.38	0.28	< 1.95	<1.95	<1.95	<1.95	<19.5	-195	<19.5	+ 19.5
WPFC-3	070-816-180226	65-70	2/26/2018	2.6	0.71	1.54	0.64	3.22	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	14.1	1.14	<1.95	×1.95	<1.95	<1.95	<19.5	<19.5	5.74	s 19 S
WPFC-3	080-816-180222	75-80	2/22/2018	1.92	0.7	1.69	1.02	3.11	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	6.46	1.04	<1.76	0.55	<1.76	<1.76	<17.6	<17.6	<17.6	<17.6
WPFC-3	080-816-180222 DUP	75-80	2/22/2018	2.34	0.87	1.85	1.12	3.45	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	6.61	1.13	<1.79	<1.79	<1.79	<1.79	<17.9	<17.9	<17.9	+17.9
WPFC-4	050-816-180213	45-50	2/13/2018	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<19.5	<19.5	<19.5	×19.5
WPFC-4	060-816-180213	55-60	2/13/2018	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	2.1	10.1	<1.96	<1.96	<1.96	<1.96	<19.6	<19.6	~19.6	<19.6
WPFC-4	070-816-180208	65-70	2/8/2018	2.15	3.21	14.3	2.66	15.8	<1.92	<1.92	<1.92	<1.92	<1.92	<1.92	4.88	231	<1.92	3.5	<1.92	<1.92	<19.2	<19.2	<19.2	<19.2
WPFC-4	070-816-180208 DUP	65-70	2/8/2018	2.18	3.32	14.6	2.9	16.5	<1.92	<1.92	<1.92	<1.92	<1.92	<1.92	5.31	228	<1.92	3.3	<1.92	<1.92	×19.2	<19.2	~ 19.2	<19.2
WPFC-4	080-816-180208	75-80	2/8/2018	<1.93	<1.93	2.94	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	26.4	<1.93	6.96	<1.93	<1.93	<19.3	- 19.3	<19.3	<19.3
WPFC-4	090-816-180208	85-90	2/8/2018	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	×1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	<18.1	< 18. l	<18.1	× 18.1
WPFC-4D	150-816-180208	140-145	2/8/2018	<1.96	<1.96	<1.96	<1.96	≈1.96	×1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	2.26	<1.96	~ 1.96	<1.96	<1.96	<19.6	<19.6	<19.6	· <[9.6
WPFC-5	040-816-180206	35-40	2/6/2018	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	< 1.99	< 1.99	<19.9	<19.9	<19.9	<19.9
WPFC-5	050-816-180206	45-50	2/6/2018	<1.93	<1.93	< 1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1,93	<1.93	<19.3	<19.3	<19.3	\$19.3
WPFC-5	060-816-180206	55-60	2/6/2018	4.58	11.4	7.36	2.23	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<19.6	< 19.6	<19.6	s19.6
WPFC-5	070-816-180206	65-70	2/6/2018	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<1.96	<19.6	< 19.6	<19.6	< 19.6
WPFC-8	020-816-180205	15-20	2/5/2018	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	1.94	<1.77	<1.77	<1.77	<1.77	<17.7	<17.7	317.7	4177
WPFC-8	030-816-180205	25-30	2/5/2018	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<1.82	<18.2	<18.2	<18.2	<18,2
WPFC-8	040-816-180205	35-40	2/5/2018	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<17.2	<17.2	<17.2	<17.2
WPFC-8	050-816-180205	45-50	2/5/2018	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<17.2	<17.2	~17.2	<17.2 ···
WPFC-8	060-816-180205	55-60	2/5/2018	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	<17.9	<17.9	<17.9	<17.9
WPFC-12	010-816-180220	5-10	2/20/2018	5.16	16.6	12.6	2.02	5.51	1.12	<1.79	<1.79	< 1.79	<1.79	<1.79	1.41	6.14	0.63	3.69	<1.79	<1.79	<17.9	×17.9	<17.9	<17.9
WPFC-12	020-816-180220	15-20	2/20/2018	5.63	4.35	4.35	3.98	9.16	3.61	0.47	<1.75	<1.75	<1.75	<1.75	1.77	3.26	0.32	13.5	<1.75	<1.75	<17.5	~17.5	<17.5	~17.5
WPFC-12	030-816-180220	25-30	2/20/2018	3.52	6.3	5.79	3.85	7.44	6.6	<1.81	×1.81	<1.81	<1.81	<1.81	1.32	3.19	0.3	9.45	<1.81	<1.81	<18.1	<18.1	×18.1	<18.1
WPFC-12	040-816-180215	35-40	2/15/2018	<1.94	2.32	2.64	<1.94	4.71	6.91	<1.94	<1.94	<1.94	<1.94	<1.94	2.49	<1.94	3.6	< 1.94	<1.94	<1.94	~19.4	<19.4	< 19.4	<19.4
WPFC-12	050-816-180215	45-50	2/15/2018	1.72	2.78	2.5	<1.95	4.32	3.74	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	< 1.95	<1.95	<1.95	<1.95	<1.95	<19.5	<19.5	<19.5	<19.5
WPFC-12	061-816-180214	55-60	2/14/2018	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67	≤1.67	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67	< 1.6.7	<16.7	s 16.7	- 16.7	<107
WPFC-12	061-816-180214 DUP	55-60	2/14/2018	<1.71	<1.71	<1.71	<1.71	3.14	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<17.1	~17.1	<17.1	stV t
WPFC-14S	015-944-180221	10-15	2/21/2018	2.31	2.81	2.93	1.93	4.63	0.92	0.85	<1.88	<1.88	<1.88	<1.88	0.51	1.06	<1.88	5.05	<1.88	<1.88	<18.8	<18.8	<18.8	<18.8
WPFC-14S	015-944-180221 DUP	10-15	2/21/2018	2.15	3.05	2.51	2.21	4.69	0.92	0.81	<1.95	<1.95	<1.95	<1.95	0.44	1.08	<1.95	4.99	<1.95	<1.95	<19.5	<19.5	<19.5	<10 G
WPFC-14	020-944-180221	15-20	2/21/2018	17.1	18	17	21.4	68.5	1.9	2.52	<2.04	<2.04	<2.04	<2.04	5.08	21.7	0.47	12.8	<2.04	< 2.04	<20.4	< 20.4	<20.4	- 20.4
WPFC-14	030-944-180220	25-30	2/20/2018	9.89	15.6	14.5	8.54	13.2	1.83	<2.02	<2.02	<2.02	<2.02	<2.02	2.86	21.9	1.37	37	<2.02	<2.02	<20.2	<20.2	<20.2	× 20.7
WPFC-14	040-944-180220	35-40	2/20/2018	11.6	19.2	18.6	10.6	15.6	2.6	<1.92	<1.92	<1.92	<1.92	<1.92	2.7	33.5	1.68	38.9	<1.92	<1.92	<19.2	~ 19.2	<19.2	<19.2
WPFC-14	050-944-180220	45-50	2/20/2018	8.74	11.9	16.4	8.7	15.9	1.41	<2.11	<2.11	<2.11	<2.11	<2.11	3.34	83.6	2.03	33.9	< 2.11	<2.11	<21.1	~21.1	<21.1	~21.1
WPFC-14	050-944-180220 DUP	45-50	2/20/2018	8.06	12.6	16.1	8.5	16.6	1.09	<2.01	<2.01	<2.01	<2.01	<2.01	3.56	85.9	2.16	34.2	<2.01	< 2.01	<20.1	≥20.1	< 20.1	<20.1
WPFC-14	060-816-180214	55-60	2/14/2018	5.25	5.01	7.15	4.79	13.2	<1.81	<1.81	<1.81	<1.81	<1.81	<1.81	3.62	67.7	2.03	31	<1.81	<1.81	<18.1	<18.1	×18.1	<18
WPFC-14	060-816-180214 DUP	55-60	2/14/2018	5.42	4.91	7.46	4.66	13.9	<1.84	<1.84	<1.84	< 1.84	<1.84	<1.84	3.55	64.6	1.96	31.4	<1.84	<1.84	×18.4	- 18.4	<18.4	- 18-4

SCDHS Profile Well PFAS Results East Hampton PFAS Investigation

	Sample Inform	ation											Perflourin	ated Compou	unds									
Well ID	Field Sample ID	Screen Interval (ft) (depth below grade)	Sample Date	PFBA ng/l	PFPeA ng/l	PFHxA ng/l	PFHpA ng/l	PFOA ng/l	PFNA ng/l	PFDA ng/l	PFUnA ng/l	PFDoA ng/l	PFTriA ng/l	PFTeA ng/l	PFBS ng/l	PFHxS ng/l	PFHpS ng/l	PFOS ng/l	PFDS ng/l	FOSA ng/l	NMeFOSSA ng/l	NEtFOSAA ng/l	6:2FTS ng/l	8:2FTS ng/l
	Drinking Water Standard Sub	part 5-1 (MCL)	ng/l	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
USEPA Healt	h Advisory Level (HAL) 70 ng/ PFOA, PFO3		70 ng/l Individual	-	•	-		70		-	199 <u>1</u> 94	· · · ·	-					70						-
WPFC-16	070-866-180411	60-65	4/11/2018	<1.91	<1.91	<1.91	<1.91	<1.91	-<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	<1.91	21.91
WPFC-16	080-866-180410	70-75	4/10/2018	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	×1.88
WPFC-16	080-866-180410 DUP	70-75	4/10/2018	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	<2.12	*2.12	<2.12	-2.17
WPFC-16	090-866-180409	80-85	4/9/2018	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93
WPFC-16	100816-180327	90-95	3/27/2018	<1.72	<1.72	<1.68	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	×1.72	<1.72	<1.72	<1.72	<1.72	<1.72	\$1.72	× 1.72
WPFC-20S	820-944-180221	15-20	2/21/2018	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	0.3	<1.99	<1.99	<1.99	<1.99	= 19.9	<19.9	<19.9	<19.9
WPFC-20S	820-944-180221 DUP	15-20	2/20/2018	<1.9	<1.9	<1.9	<1.9	×1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	0.3	<1.9	≤1.9	<1.9	<1.9	-19.0	<19.0	<19,0	<19.0
WPFC-20	010-816-180320	5-10	3/20/2018	≤2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	×2.00	≤2.00	<2,00	<2.00	<2.00	- 2.00	<2.00	<2,00	<2.00	<20.00	<20.00	<20.00	<20.00
WPFC-20	020-816-180320	15-20	3/20/2018	<1.95	<1.95	<1.95	<1.95	×1.95	<1.95	≤1.95	<1.95	< 1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<19.50	<19.50	<19.50	<19.50
WPFC-20	030-816-180320	25-30	3/20/2018	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<1.98	<19.80	<19.80	<19.80	<19.80
WPFC-20	040-816-180319	35-40	3/19/2018	<1.94	<1.94	<1.94	<1.94	<1.94	<1.94	<1,94	<1.94	<1.94	<1.94	<1.94	<1,94	<1.94	<1.94	<1.94	<1.94	<1.94	<19.40	<19.40	<19.40	<19.40
WPFC-20	040-816-180319 DUP	35-40	3/19/2018	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1.99	<1,99	<1.99	<19.90	<19.90	<19.90	<19.90
WPFC-20	050-816-180319	45-50	3/19/2018	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	≤1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<1.97	<19.70	<19.70	<19.70	×19.70
WPFC-22	030-866-180424	25-30	4/24/2018	5.14	11.10	8.27	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	4.15	3.18	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	-1.84	<1.84
WPFC-22	040-866-180424	35-40	4/24/2018	3.56	13.80	14.80	4.94	25.7	\$1.87	<1.87	<1.87	<1.87	<1.87	<1.87	4.14	45	2.46	8.49	<1.87	<1.87	<1.87	<1.87	<1.87	<1.87
WPFC-22	050-866-180424	45-50	4/24/2018	5.90	18.90	14.90	3.52	6.05	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	6.42	15.7	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93
WPFC-22	060-866-180423	55-60	4/23/2018	10.20	59.30	24.50	7.72	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	1.87	<1.84	<1.84	<1.84	<1.84	- 1.84	<1.84	<1.84	<1.84
WPFC-22	060-866-180423 DUP	55-60	4/23/2018	10.60	59.20	24.60	7.73	<1.95	< 1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	2.2	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95	<1.95
WPFC-22	070-886-180418	65-70	4/18/2018	5.96	21.50	20.20	8.50	2.33	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	26.6	<1.93	7.28	<1.93	<1.93	<1.93	<1.93	<1.93	×1,93
WPFC-22	080-886-180412	75-80	4/12/2018	<1.93	2.90	5.88	2.51	4.32	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	<1.93	40.10	<1.93	20.80	<1.93	<1.93	<1.93	<1.93	< 1.93	<1.63
WPFC-23	080-816-180502	35-40	5/02/2018	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	1.96	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	$- \cdot 1 / 0$
WPFC-23	080-816-180501	45-50	5/01/2018	<1.75	3.93	1.86	<1.75	2.15	<1.75	<1.75	<1.75	×1.75	<1.75	<1.75	<1.75	3.08	×1.75	2.46	<1.75	<1.75	<1.75	- 1.75	<1.75	×1.75
WPFC-23	080-816-180501	55-60	5/01/2018	<1.81	16.4	10.2	2.64	5.29	<1.81	<1.81	<1.81	< 1.81	<1.81	<1.81	2.1	31.4	<1.81	7.61	<1.81	<1.81	<1.81	<1.81	<1.81	-181
WPFC-23	080-816-180430	65-70	4/30/2018	<2.09	8.6	10.3	2.95	3.47	<2.09	<2.09	<2.09	×2.09	<2.09	<2.09	×2.09	54	2.28	45.9	<2.09	<2.09	<2.09	~2.09	<2.09	× 2.09
WPFC-23	080-816-180430 DUP	65-70	4/30/2018	1.77	6.62	8.89	2.22	3.5	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	45.1	1.97	38.1	<1.76	<1.76	<1.76	<1.76	< 1.76	21,76
WPFC-23	080-816-180423	75-80	4/23/2018	7.88	27.60	50.90	14.30	49.70	<1.76	<1.76	<1.76	<1.76	<1.76	<1.76	9.32	366	28	307	<1.76	<1.76	<1.76	<1.76	1.89	2.11
WPFC-24	050-816-180404	45-50	4/4/2018	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	- 1.73	<1.73	<1.73	<1.73
WPFC-24	060-816-180403	55-60	4/3/2018	<1.75	2.53	2.01	<1.75	1.99	≤1.75	<1.75	<1.75	<1.75	<1.75	<1.75	2.90	<1.75	<1.75	<1.75	<1.75	<1.75	< 1.75	<1.75	<1.75	<1.75
WPFC-24	070-816-180403	65-70	4/3/2018	2.98	8.16	4.72	2.41	3.23	2.32	<1.74	<1,74	<1.74	<1.74	<1.74	10.40	<1.74	<1.74	2.30	<1.74	<1.74	<1.74	<1.74	<1.74	<1.74
WPFC-24	080-816-180328	75-80	3/28/2018	3.05	4.43	2.18	<1,70	1.90	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	14.70	<1.70	<1.70	1.93	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
WPFC-24	090-816-180328	85-90	3/28/2018	<1.71	<1.71	<1.71	<1.71	1.99	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	8.65	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	~1.74
WPFC-24	090-816-180328 DUP	85-90	3/28/2018	1.75	<1.70	<1.63	<1.70	2.02	<1.70	<1.70	<1.70	×1.70	<1.70	<1.70	9.19	<1.70	<1.70	<1.70	<1.20	<1.70	s1 70	<1.70	<1.70	>1.70
WPFC-25	040-816-180412	35-40	4/12/2018	1.96	6.17	5.16	2.32	1.83	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	3.14	<1.77	<1.77	<1.77	<1.77	<1.77	<1.77	-177	<1.77	<1.77
WPFC-25	050-816-180412	45-50	4/12/2018	3.64	12.40	10.80	2.00	3.38	<1.74	<1.74	<1.74	<1.74	<1.74	<1.74	<1.74	<1.74	<1.74	2.89	<1.74	<1.74	<1.74	< 1.74	<1.74	~1.74
WPFC-25	060-816-180410	55-60	4/10/2018	6.97	28.30	22.00	3.40	9.16	<1.76	≪1 76	<1.76	<1.76	<1.76	<1.76	2.17	<1.76	≤1.76	8.70	<1.76	< 1.76	<1.76	<1.76	<1.76	\$1.76
WPFC-25	070-816-180410	65-70	4/10/2018	4.24	13.7	13.5	2.46	8.23	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78	7.33	2.61	<1.78	7.95	<1.78	<1.78	<1.78	<1.78	×1.78	~1.78
WPFC-25	070-816-180410 DUP	65-70	4/10/2018	4.59	14.20	12.70	2.20	7.96	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78	6.77	2.17	<1.78	6.75	\$1.78	<1.78	<1.78	<1.78	<1.78	\$1.78
WPFC-25	080-816-180409	75-80	4/9/2018	5.57	24.20	16.30	3.06	12.00	2.06	<1.71	<1.71	<1.71	<1.71	<1.71	2.54	2.50	<1.71	10.8	<1.71	<1.71	<1.71	-171	<1.71	<171
WPFC-26	040-816-180419	35-40	4/19/2018	8.02	21.40	12.10	3.62	4.34	<1.75	<1.75	<1.75	<1.75	<1.75	<1.75	1.79	3.35	<1.75	5.72	<1.75	<1.75	<1.75	<1.75	×1.75	31.75
WPFC-26	050-816-180419	45-50	4/19/2018	7.02	16.1	7.5	3.8	2.98	<1.79	<1.79	<1.79	<1.79	<1.79	<1.79	2.11	<1.79	<1.79	6.68	<1.79	<1.79	<1.79	×1.79	<1.79	×1.79
WPFC-26	060-816-180419	55-60	4/19/2018	4.31	8.36	9.26	2.88	5.52	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	3.28	2.18	<1.73	1.90	<1.73	<1.73	<1.73	<1.73	\$1.73	2173
WPFC-26	070-816-180417	65-70	4/17/2018	2.66	2.62	3.63	<1.72	2.14	<1.72	<1.72	<1.72	<1.72	<1.72	<1.72	2.34	2.35	<1.72	<1.72	<1.72	<1.72	<1.72	==1.72	<1.72	1.1072
WPFC-26	070-816-180417 DUP	65-70	4/17/2018	2.77	2.57	3.43	<1.75	2.27	<1.75	×1.75	<1.75	<1.75	<1.75	<1.75	2.45	2.17	<1.75	<1.75	<1.75	s1.75	<1.75	<1.75	<1.75	<1.75
WPFC-26	080-816-180417	75-80	4/17/2018	1.84	3.62	10.1	1.83	1.54	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	4.84	29.4	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	- 31.74

DRAFT 5/23/18 Addendum to Site Characterization Report (2020)





Addendum to Site Characterization Report

East Hampton Airport Wainscott, Suffolk County, New York

New York State Department of Environmental Conservation Division of Environmental Remediation NYSDEC Site No. 152250

January 22, 2020

Quality information

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Distribution	List				
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List of Acronyms and Abbreviations

AFFF	aqueous film-forming foam
AGS	Advanced Geological Services
AOC	Area of Concern
ARFF	Aircraft Rescue and Firefighting
bgs	below ground surface
COC	chain of custody
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EDD	Electronic Data Deliverable
EDS	Environmental Data Services, Inc.
EP&S	Environmental Products & Services of Vermont
FOSA	Perfluorooctane sulfonamide
ft.	foot/feet
GPR	ground penetrating radar
HAL	US EPA Health Advisory Level
I.D.	inside diameter
IDW	investigation-derived waste
MCL	maximum contaminant level
MS/MSD	matrix spike/matrix spike duplicate
MW	monitoring well
ng/g	nanograms per gram
ng/L	nanograms per liter (parts per trillion)
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PFAS	per- and polyfluoroalkyl substances
PFC	perfluorinated compound
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PID	photoionization detector
ppt	parts per trillion
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
SC	site characterization
SCDHS	Suffolk County Department of Health Services
SCR	Site Characterization Report
SOW	scope of work
US EPA	United States Environmental Protection Agency

Site Characterization Report Certification

I, Daniel Servetas, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Characterization Report Addendum was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully submitted, AECOM Technical Services Northe 22,2020

Daniel Servetas Registered Professional Engineer New York License No. 079068 Date

WARNING: It is in violation of New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his/her seal and notation "Altered By" followed by his/her signature and date of such alteration, and a specific description of the alteration.

1. Introduction

This Addendum to the November 2018 Site Characterization Report (SCR) documents the findings of supplemental activities performed following the 2018 site characterization (SC) completed by AECOM Technical Services Northeast, Inc. at the East Hampton Airport in Long Island, New York (Site No. 152250) on behalf of the New York State Department of Environmental Conservation (NYSDEC). The purpose of the SC was to identify the presence or absence of per- and polyfluoroalkyl substances (PFAS) contamination so that a determination could be made as to whether the Site poses a significant threat to public health and/or the environment that warrants further investigation or remedial action. As a group, PFAS are chemicals with broad application, primarily in the manufacture of commercial products that resist heat or chemical reactions and repel oil, stains, grease and water. Perfluorooctanoic acid (PFOA) is a specific PFAS compound found in various industrial products (aerospace, automotive, building, and electronics industries) that is commonly used in nonstick cookware, stain-resistant carpeting and fabrics, and paper and cardboard. PFOA was also used in some formulations of aqueous film-forming foam (AFFF), a common and effective firefighting agent. Perfluorooctane sulfonic acid (PFOS) is the primary PFAS compound used in firefighting foam. This SC was undertaken due to the documented presence of AFFF at the East Hampton Airport for firefighting and fire training activities, either currently or historically, and the associated potential for chemical discharge at concentrations that could present a risk for public health or the environment. Initial Site characterization activities were performed between April and September 2018.

1.1 Site Location

The approximately 610-acre Site (Draft Master Plan Report, Savik & Murray, LLP, April 2007) is located at 200 Daniels Hole Road in the hamlet of Wainscott in Suffolk County, New York (**Figure 1**), approximately 3.4 miles west of the Village of East Hampton on the South Fork of Long Island. The Site, owned by the Town of East Hampton, includes the airport and the East Hampton Industrial Park at the southern end of the airport property along Industrial Road. Various commercial/industrial businesses lease the buildings from the town. Coordinates for the approximate center of the Site are 40°57'37.2" N, 72°15'03.7" W. The nearest residential properties are located south of the Site beyond the railroad tracks and there are additional residential parcels to the west on Town Line Road. At the time of the SC field activities, a majority of the nearby residences obtained their potable water from private groundwater wells. The public water supply network is currently being expanded to service these homes.

The Atlantic Ocean lies to the south of Wainscott; the Village of Sagaponack is located to the west; and the Village of East Hampton is to the east. Other communities that border Wainscott are East Hampton and Northwest Harbor to the northeast, the village of Sag Harbor to the north, and Noyack and Bridgehampton to the west (north of Sagaponack).

The airport property is zoned commercial/industrial according to the town zoning map. Surrounding properties are used for residential and commercial purposes with areas of open, unoccupied land.

1.2 Site Background

Originally built in the late 1930s, the airport is capable of handling small general aviation aircraft. The Site property consists of a public use airport with a parking lot, airport terminal and various support buildings. Additionally, several parcels to the south of the airfield are leased for commercial/industrial and public service tenants. The public service tenants include the East Hampton Fire District Training Facility, the Aircraft Rescue and Firefighting (ARFF) facility, and the East Hampton Police Department.

In the fall of 2017, the Suffolk County Water Authority initiated a drinking water investigation for PFAS, which included sampling private water supply wells and the installation of monitoring wells. Several residences in East Hampton had detectable levels of PFAS contaminants in their well water, with the highest concentrations exhibited at houses situated in close proximity (south/southwest) to the airport property. The Site had not previously been investigated for the presence of PFAS at that time.

1.3 2018 Site Characterization Report Findings

The November 2018 Site Characterization Report provided the following conclusions with regard to SC activities completed at that time:

- Drinking Water: Samples were collected from several private water supply wells that service leased hangar spaces. Samples were collected from sink taps located within each space. Trace to low levels of PFOS and PFOA were detected in each of the tap samples, with PFOS concentrations ranging from 1.2 to 8.9 nanograms per liter (ng/L) and PFOA reported at 1.4 to 22 ng/L. No detections were reported above the 70 ng/L United States Environmental Protection Agency (US EPA) lifetime Health Advisory Level (HAL).
- Soil: The presence of PFAS compounds in soil above laboratory reporting limits indicate that release(s) have occurred on-site. To date no regulatory guidelines have been established to determine soil cleanup objectives or protection of groundwater standards for PFAS in soil. The highest reported concentration of PFAS compounds were from boring EH-19B1, with 12 nanograms per gram (ng/g) of PFOS and 3.8 ng/g of PFOA.
- Groundwater: Investigation findings show that the historic use and/or storage of AFFF have impacted Site groundwater quality. In particular, PFOS and PFOA have been identified in site groundwater at concentrations above the US EPA HAL of 70 ng/L. Analytical results from upgradient and downgradient wells indicate that there are four distinct areas of concern (AOCs), including:
 - AOC-1: Groundwater beneath Areas B and E located north of the airfield, where firefighting foam was historically used for crash response and training. PFOS (270 ng/L) and PFOA (17 ng/L) are present in temporary well EH-B1.
 - AOC-2: Groundwater beneath Area 16, where AFFF was used during a mass casualty training exercise, is impacted by PFOS above the HAL. PFOS was reported at 290 ng/L in the groundwater sample from downgradient temporary well EH-162, with lower levels of PFOA (9.3 ng/L).
 - AOC-3: Groundwater beneath Parcel 19, where the ARFF is located, has been impacted by both PFOS and PFOA above the HAL. Although no documented discharge of AFFF could be confirmed, AFFF is stored in the station. Analytical results for three temporary wells (EH-19A, EH-19A2, and EH-19B) exhibited one or more exceedances of the HAL, with a maximum reported concentration of 174 ng/L for combined PFOS/PFOA.
 - AOC-4: Groundwater beneath Parcel 1, occupied by the East Hampton Police Department, has been impacted with PFOA above the HAL. Temporary well EH-1, located adjacent to the burn training structure, exhibited PFOA at 160 ng/L. Groundwater quality in upgradient well EH-19B1 suggests that the contamination originated on the parcel.

1.4 Scope of Work

Based on the 2018 SC findings, AECOM developed a scope of work (SOW) for a supplemental SC including the following tasks:

- Six temporary monitoring well (MW) locations having contained PFOS and/or PFOA concentrations in exceedance of the HAL in 2018 were converted to permanent two-inch wells and developed between December 4 and December 14, 2018.
- Investigation-derived waste (IDW) drum samples were collected for waste characterization purposes, and a tap water sample was collected from the East Hampton Executive Terminal, located to the south of the Airport on Industrial Road. The tap water sample was collected because a tank of potable drilling water had frozen overnight at one point during the permanent well installation activities, and water from the East Hampton Executive Terminal was used instead during one day of work. The tap sample results were used to confirm that the water did not contain PFOS or PFOA.
- On March 4, 2019, AECOM subcontractor C.T. Male Associates (C.T. Male) surveyed the six new permanent wells.

- On March 4 and 5, 2019, AECOM gauged and sampled the permanent MWs using low-flow techniques with perfluorinated compound (PFC)-free pumps/tubing or bailers.
- On March 6, 2019, Environmental Products & Services of Vermont (EP&S) was subcontracted by AECOM to pick up, transport and dispose of all IDW waste drums that had been generated on-site in 2018 and 2019.

1.5 Regulatory Framework

PFAS are not currently regulated at the federal level and are not regulated in soil and groundwater in New York. Effective March 3, 2017, the NYSDEC added PFOA and PFOS to New York State's 6 New York Codes, Rules and Regulations (NYCRR) Part 597 List of Hazardous Substances. While the Final Rule lists PFOS and PFOA as hazardous substances, no screening or clean-up criteria are provided.

The US EPA has established a lifetime HAL of 70 ng/L for PFOS and PFOA, individually or combined, to protect against potential risk from exposure to drinking water contaminated by these compounds. There are no regulatory criteria for the other 19 PFAS compounds analyzed for at this time; therefore, discussion focuses primarily on PFOA and PFOS. In December 2018, the New York State Drinking Water Quality Council recommended that the New York State Department of Health (NYSDOH) adopt low maximum contaminant levels (MCLs) for PFOA and PFOS of 10 parts per trillion (ppt) for each compound.

2. Field Activities

Field activities for the supplemental SC were performed between December 4, 2018 and March 6, 2019 during multiple site mobilizations. This Section provides detail on the investigation tasks completed during that timeframe. The following subcontractors provided services during the supplemental SC:

- Drilling Aztech Environmental Technologies (Aztech), AECOM Subcontractor
- Surveying C.T. Male, AECOM Subcontractor
- Chemical Laboratory Analyses ALS Environmental, Inc., AECOM subcontractor
- IDW Removal Environmental Products & Services of Vermont (EP&S), AECOM Subcontractor
- Data Validation Environmental Data Services, Inc. (EDS), AECOM Subcontractor

All field activities were performed or supervised by an AECOM geologist. Photographs of field activities are included in **Appendix A** and daily reports are provided in **Appendix B**.

2.1 Mobilization/Utility Clearance

During the investigation, extensive precautions were used to eliminate the potential for cross-contamination from PFAS-containing materials. This preparation included ensuring field staff used PFC-free clothing, equipment, and supplies during supplemental SC activities and using certified PFC-free water during drilling and sampling (supplied by Aztech and the East Hampton Executive Terminal).

Prior to commencing any intrusive activities, AECOM confirmed clearance of offsets to pre-existing temporary well locations with Advanced Geological Services (AGS). The locations for permanently installed MWs were offset from corresponding temporary MW locations by approximately 1 ft. Additional ground penetrating radar (GPR) mark-outs were not necessary prior to the permanent MW installation, as they were within the radius around the temporary MW locations originally cleared by AGS in August 2018.

2.2 Drilling Program

2.2.1 Soil Sampling

Soil samples were not collected during the process of installing permanent MWs and abandoning the corresponding temporary MWs in December 2018, since soil was collected and analyzed when the temporary MWs were installed in spring 2018.

2.2.2 Permanent MW Installation

Six temporary MWs (EH-1, EH-19A, EH-19B, EH-19A2, EH-B1, and EH-162) were designated to be converted to permanent MWs. These six wells contained the highest concentrations of PFOA and/or PFOS from the 2018 SC sampling event. From December 4 through 13, 2018, Aztech installed the permanent wells with AECOM oversight within ± 1 foot of the corresponding temporary well locations, the names of which were carried over to the permanent wells. A Geoprobe 3230 DT direct push track-mounted unit was used for the permanent well installation activities. After the depth to groundwater was confirmed in each location, a 2-inch inside diameter (I.D.) PVC well was installed with a 10-ft. length section of 0.010-inch slot well screen to facilitate groundwater sampling. Aztech used totes of PFC-free water during drilling activities. The soils comprising the permanent wells were screened with a PID and logged. Each MW was finished with #0 filter sand pack, bentonite and grout and sealed with a 4-inch diameter steel protective casing with locking cap and a flush-mount road box. The six temporary wells were abandoned by filling the 1-inch boreholes with sand to match the existing surface elevation. Drilling equipment was decontaminated between well locations and stakes were placed to mark the locations for future surveying. Following completion of well installation, Aztech developed all six wells by purging each location of ten well volumes. IDW was placed into 55gallon steel drums stored in temporary secondary containment structures in the northeastern portion of the airport property pending sampling, analysis and disposal (refer to Figure 2). Upwind and downwind air monitoring was performed by AECOM field personnel on a regular basis using a photoionization detector (PID). Field observations,

measurements, and well construction timetables were recorded in the Daily Reports as provided in **Appendix B**. Monitoring well construction and development logs are presented in **Appendix C** and surveyed well locations are provided on **Figure 2**.

2.3 Drinking Water Tap Sampling

On December 14, 2018, a tap water sample was collected from inside the East Hampton Executive Terminal building. Water from the tap had to be used for one day during the permanent well drilling process since the tote of water supplied by Aztech had frozen overnight and was unusable at the time. As a result, the tap was tested for the presence of PFAS. The sample location is shown on **Figure 2**. An East Hampton Airport employee escorted AECOM personnel throughout the process. The tap was purged for a brief period to ensure sampled water was newly extracted from the well and not stagnant in the piping. The tap was sampled in accordance with AECOM Standard Operating Procedures for Sampling PFAS. The sample was preserved on ice, packaged, and submitted under standard chain of custody (COC) procedures to ALS Environmental for PFAS analysis. Sample results are discussed in Section 4.1 and laboratory data is provided in **Appendix E**.

2.4 Groundwater Monitoring Program

During groundwater sampling activities in March 2019, water levels in the permanent wells were collected and recorded on monitoring well purging/sampling forms (**Appendix D**) using an electronic water level meter, which was decontaminated before proceeding to the next well location. Measurements were referenced to the top of each PVC well riser.

Groundwater sampling was performed using low-flow sampling techniques, when possible, with a peristaltic pump, high density polyethylene PFC-free tubing, a YSI-556 multi-meter, and a HACH 2100 turbidity meter. When the groundwater level was too low to use a peristaltic pump (i.e., in EH-19A, EH-19A2, and EH-19B), purging and sampling were performed using a PFC-free 2-inch diameter PVC bailer, PFC-free twine, a YSI-556 multi-meter, and a HACH 2100 turbidity meter. AECOM Standard Operating Procedures for Sampling PFAS were followed by all field staff during the supplemental SC activities. The groundwater samples were preserved on ice, packaged, and submitted under standard COC procedures to ALS Environmental and analyzed for the list of 21 PFAS compounds shown in **Table 1**. Purge water was placed into the water drums left on-site during the December 2018 field activities for disposal at the end of the field mobilization. Daily reports describing field activities are provided in **Appendix B**, and groundwater purging/sampling logs are presented in **Appendix D**. Sample results are discussed in Section 4.2 and laboratory data is provided in **Appendix E**.

2.5 Quality Assurance/Quality Control

Field duplicates, matrix spikes/matrix spike duplicates (MS/MSD), equipment blanks, and trip blanks are often collected and analyzed as needed for quality assurance/quality control (QA/QC) purposes. In December 2018, AECOM did not collect any QA/QC samples in conjunction with the IDW and tap water samples. During the permanent well groundwater monitoring event in March 2019, AECOM collected a duplicate sample (DUP) from EH-162, and MS/MSD samples were collected from EH-19B. Additionally, equipment blanks were collected from the 2-inch bailers and twine and field blanks were collected using the PFAS-free water provided by ALS Environmental on each sampling day. All QA/QC samples were stored and shipped with the PFAS groundwater samples.

2.6 Site Survey

On March 4, 2019, C.T. Male completed a survey of all permanent MWs during the groundwater sampling mobilization. Collected data for each location included grade elevation, top of casing, top of PVC, northing, easting, latitude, and longitude. A revised Monitoring Well Locations map which includes the coordinates of the six new permanent wells is provided as **Appendix F**.

2.7 IDW Sampling

IDW drums containing soil cuttings, water from drilling activities, and water from well development and sampling were generated on-site in December 2018 and March 2019. The drums were stored in temporary secondary containment structures consisting of a wooden frame and polyethylene sheeting and covered with polyethylene sheeting. IDW sampling was performed on December 14, 2018 following the installation and development of the permanent MWs.

Three composite IDW samples were collected: two from drums containing soil cuttings and one from a purge water drum. The IDW samples were preserved on ice, packaged, and submitted under standard COC procedures to ALS Environmental and analyzed for the list of 21 PFAS compounds, TCLP volatile organic compounds, TCLP semi-volatile organic compounds, TCLP pesticides, TCLP herbicides, TCLP metals, pH and/or flash point as required for transportation and disposal of the drums. Sample results are discussed in Section 4.3 and laboratory data is provided in **Appendix E**.

3. Physical Setting

3.1 Site Topography and Drainage

Ground elevations on-site range between 30 and 55 feet above Mean Sea Level, based on data collected during the monitoring well survey. Some areas of higher elevation exist to the west and south. The airport property is developed with numerous buildings and includes large expanses of paved (impermeable) surfaces. The remainder of the property is characterized by open fields and wooded areas.

3.2 Site Geology and Hydrogeology

The Site geologic setting consists of a glacial outwash plain that slopes south from the Ronkonkoma Moraine to bays and barrier islands, which form the southern boundary of Long Island. Shallow soils are generally comprised of glacial outwash sands with intermittent non-continuous silt and clay lenses that originated from the receding Wisconsin ice sheets at the end of the Pleistocene epoch.

Groundwater beneath the airport is found within three different aquifers:

- 1. Lloyd Aquifer: the deepest aquifer, providing a reliable source of drinking water unimpacted by the salt water intrusion that commonly affects shallow aquifers on Long Island;
- 2. Magothy: a productive source of drinking water; and
- 3. Upper Glacial: the unconfined, shallow surficial aquifer, which is the major source of potable water around the Site. This unconfined aquifer consists of very porous and highly permeable coarse sand and gravel and can yield large quantities of water.

Depth to groundwater at the Site varies from 15 feet bgs in the northern portion of the Site to 30 feet bgs at the industrial park located along the southern boundary of the airport. Groundwater flows from northwest to southeast across the Site with a gradient of 4.0×10^{-4} ft./ft.

4. Analytical Results

The following sections present the laboratory results for samples collected during the December 2018 and March 2019 SC activities. All samples were analyzed for 21 PFAS compounds via US EPA Method 537 unless otherwise noted.

4.1 East Hampton Executive Terminal Tap Sampling

During the permanent well installation activities, one water tap was sampled inside the East Hampton Executive Terminal. These results are provided in **Table 2**. Although PFOA and PFOS were not detected at elevated concentrations, PFOA was detected at a low concentration of 0.64 J ng/L, while PFOS was not detected. One other PFAS compound, Perfluorooctane sulfonamide (FOSA), was detected in the tap water sample; however, there is not currently a state or federal advisory level for this PFAS for comparison purposes. The laboratory report containing the tap sample results is provided in **Appendix E**.

4.2 Permanent MW Groundwater Sampling

During SC field activities in March 2019, AECOM collected groundwater samples from six permanent monitoring wells (EH-1, EH-19A, EH-19B, EH-19A2, EH-B1, and EH-162). The laboratory data package containing the groundwater sample results was submitted to EDS for data validation. The sample results are presented in **Table 1** and portrayed on **Figure 3**. **Figure 4** displays approximate groundwater elevation contours for the East Hampton Airport site based on permanent well data only. QA/QC sample results are also included in **Table 1**. None of the QA/QC samples contained detectable concentrations of PFAS except the DUP sample, which contained similar concentrations as sample EH-162.

PFOS and/or PFOA were detected in all six of the permanent monitoring wells, with combined concentrations ranging from 6.99 ng/L to 207 ng/L. The HAL of 70 ng/L was exceeded in samples from five of the six permanent monitoring wells. The only well with concentrations below the HAL was EH-1 located on the East Hampton Police Department lease property south of the airport.

As previously stated, there are no current state or federal advisory levels for PFAS compounds other than PFOS and PFOA. Many of the remaining 19 PFAS analytes were identified in at least one groundwater sample at a variety of concentrations. In addition to elevated PFOS/PFOA impacts, samples from wells in Parcel 19 exhibited concentrations of other perfluoroalkyl carboxylic acids that were one to two orders of magnitude higher than wells for other target areas. The laboratory report containing the permanent well groundwater sample results is provided in **Appendix E**.

4.3 IDW Sampling and Disposal

During the field activities in December 2018, AECOM collected one purge water and two soil IDW samples. PFAS were not detected in the soil samples. In the IDW water sample, PFOS was detected at a concentration of 150 ng/L and PFOA was detected at 130 ng/L, exceeding the US EPA lifetime HAL for both compounds. 11 of the 19 other PFAS compounds were also detected in the sample. The PFAS sampling results are provided in **Table 2**. The laboratory reports containing all IDW analytical data are provided in **Appendix E**. On March 6, 2019, EP&S transferred a total of 19 soil drums and three water drums to a box truck using a rented skid steer from Sunbelt Rentals and transported the waste off-site. The drums were disposed at Waste Recovery Solutions in Myerstown, Pennsylvania. A bill of lading for the shipment is provided as **Appendix G**.

4.4 Data Quality

A Data Usability Summary Report (DUSR) was prepared by EDS for the permanent well groundwater sampling data; this process included a review of the full Category B analytical packages. Data qualifiers were modified on the laboratory data sheets provided in the DUSR and in the electronic data deliverables (EDDs), as appropriate, and final values are presented in the tables, figures and appendices attached to this report. All data was deemed usable by the data validator. The DUSR is provided in **Appendix E**.

4.5 Electronic Data Deliverables

All laboratory data was received in a format compatible for submission to NYSDEC's centralized database. A separate electronic data deliverable submission will be made to the NYSDEC for the permanent well groundwater results, which will include validated analytical data and well survey coordinates.

5. Conclusions and Recommendations

The following conclusions and recommendations can be made based on the SC findings for the East Hampton Airport PFAS assessment. As additional information for this site becomes available, it will be reviewed by NYSDEC and NYSDOH officials and incorporated into the site conceptual model to determine whether site contamination presents public health exposure concerns.

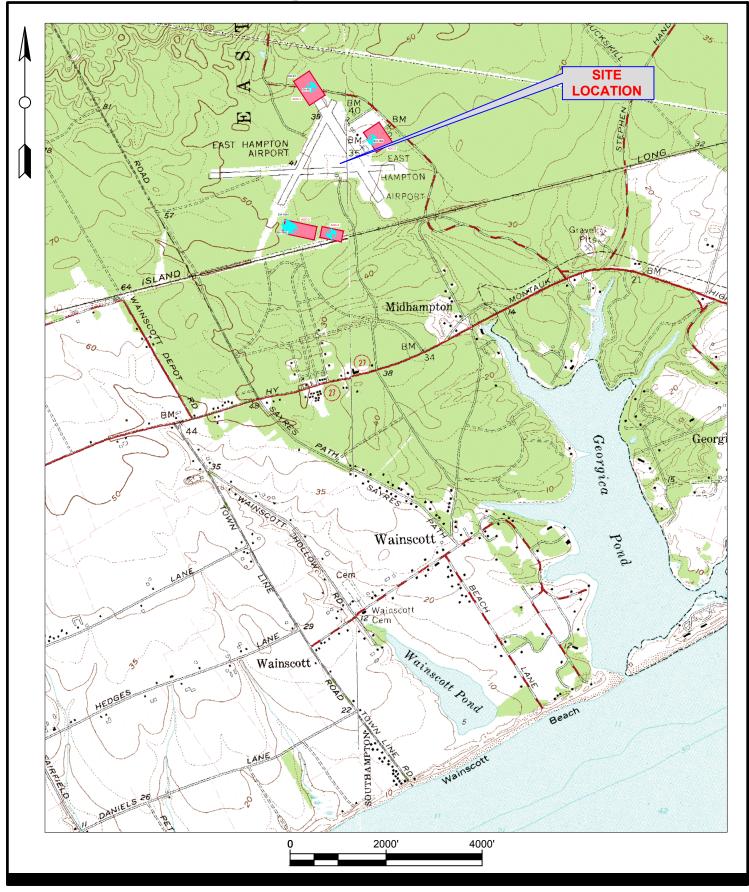
5.1 Conclusions

- Drinking Water: Samples were collected from the tap located within the East Hampton Executive Terminal. Trace amounts of PFOA were detected in the tap sample, with a concentration of 0.64 ng/L; however, this was well below other tap sample results collected during the initial SC.
- Groundwater: Investigation findings show that the historic use and/or storage of AFFF have impacted Site groundwater quality. In particular, PFOS and PFOA have been identified in Site groundwater at concentrations above the US EPA HAL of 70 ng/L in five of the six permanent monitoring wells installed as part of the supplemental SC. Consistent with the findings of the November 2018 SC Report, analytical results from upgradient and downgradient wells indicate that there are four distinct areas of concern including:
 - AOC-1: Groundwater beneath Area B located north of the airfield, where firefighting foam was historically used for crash response and training. PFOS (110 ng/L) and PFOA (25 ng/L) are present in permanent well EH-B1. These levels are relatively similar to the previous sampling event.
 - AOC-2: Groundwater beneath Area 16, where AFFF was deployed during a mass casualty training exercise, is impacted by PFOS above the HAL. PFOS was reported at 130 ng/L in the groundwater sample from downgradient permanent well EH-162, with lower levels of PFOA (9.5 ng/L). Previously recorded levels were relatively similar (PFOA = 9.3 ng/L and PFOS = 290 ng/L).
 - AOC-3: Groundwater beneath Parcel 19, where the ARFF station is located, has been impacted by both PFOS and PFOA above the HAL. Although no documented discharge of AFFF could be confirmed, AFFF is stored in the station. Analytical results for three permanent wells in this area (EH-19A, EH-19A2, and EH-19B) exhibited exceedances of the HAL for PFOA and/or PFOS, with a maximum reported concentration of 207 ng/L for combined PFOS/PFOA. The level recorded in March 2019 was greater than the previously reported maximum concentration in Parcel 19 (174 ng/L).
 - AOC-4: Groundwater beneath Parcel 1, occupied by the East Hampton Police Department, has been impacted with low levels of PFOA/PFOS. Permanent monitoring well EH-1, located adjacent to the burn training structure, contained PFOA at a concentration of 6 ng/L and PFOS at a concentration of 0.99 J ng/L. This is significantly lower than the previously reported levels of 160 ng/L and 1.8 J ng/L, respectively, from the temporary well sampled during the initial SC. Additional monitoring is required to determine if there is a seasonal or other variable that may be the cause of the differing results.

5.2 Recommendations

The NYSDEC combined the multiple AOCs into one site listing. The NYSDEC reclassified the three individual parcels back into one site as a Class 2 Inactive Hazardous Waste Site. Based on the reclassification and guidance from the NYSDEC AECOM can offer further recommendations regarding how to precede.

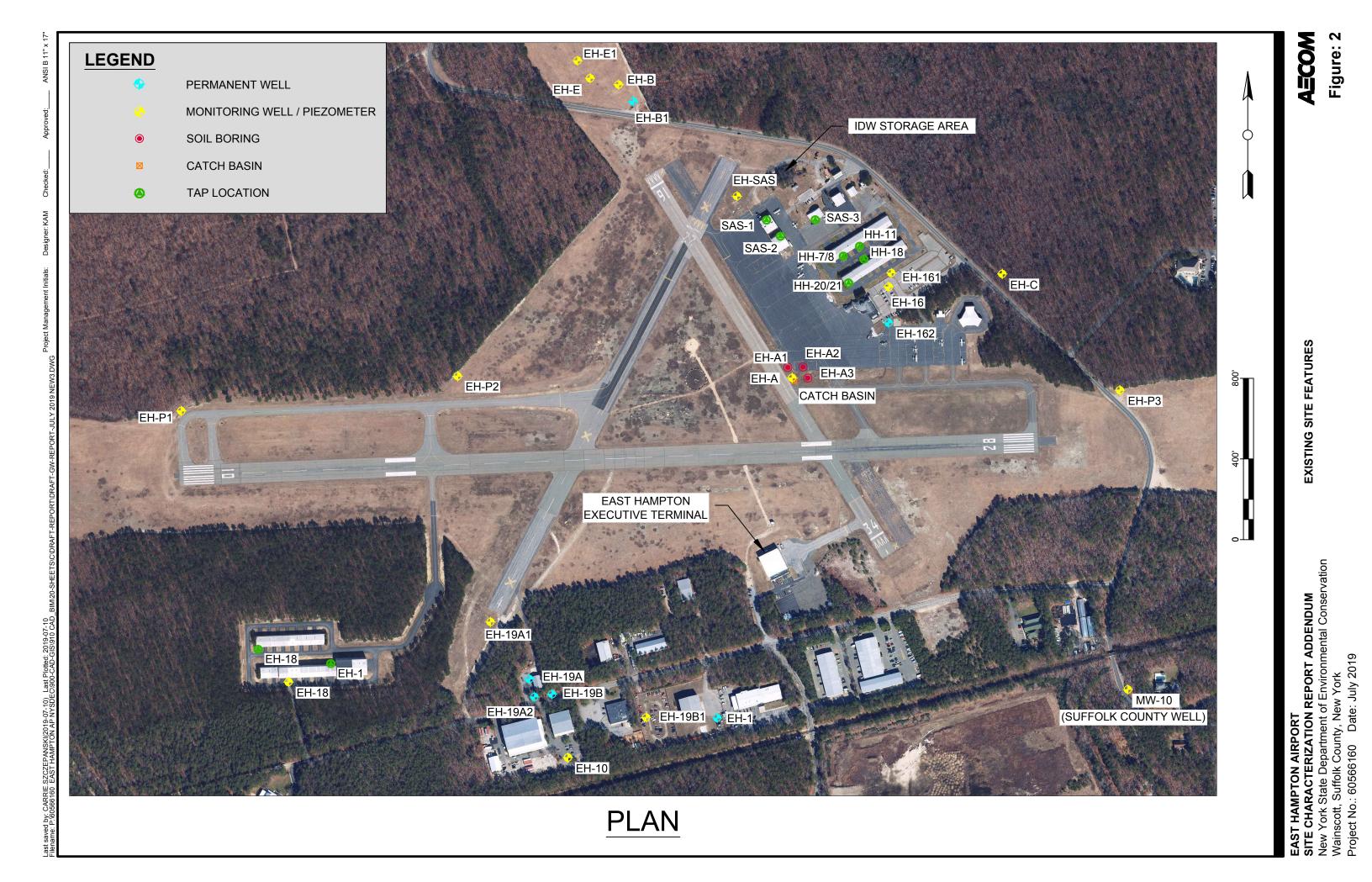
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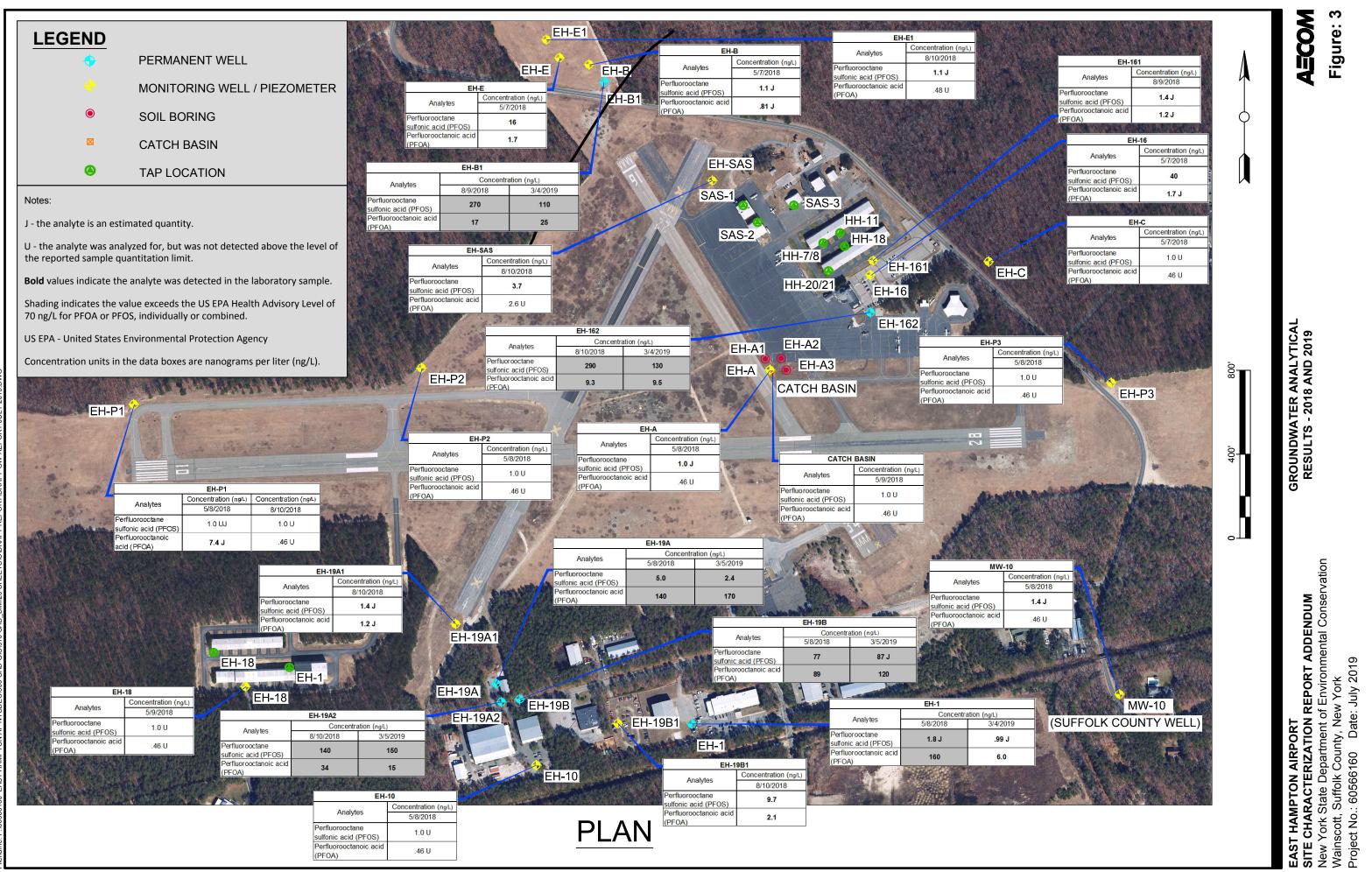


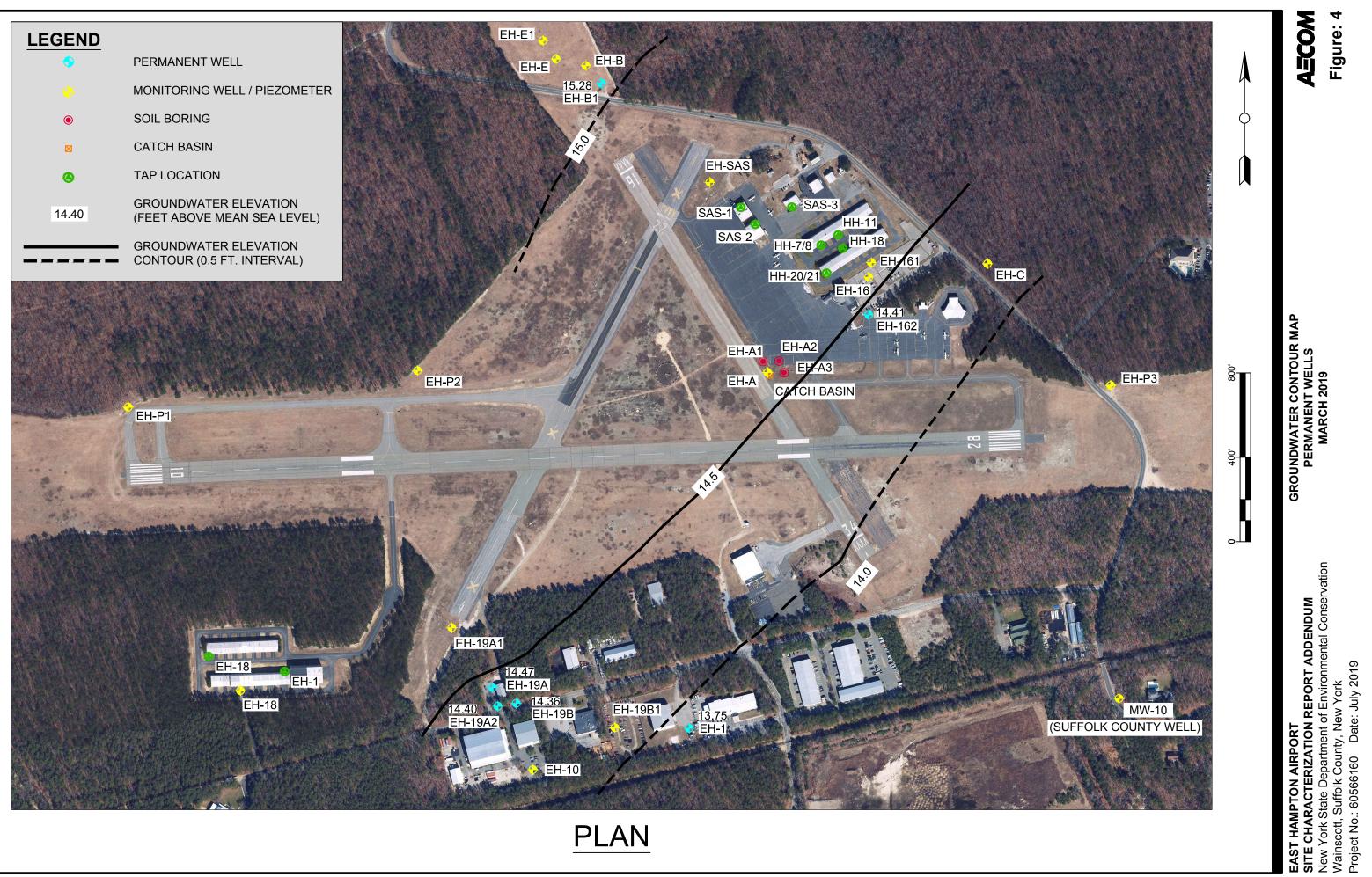
EAST HAMPTON AIRPORT SITE CHARACTERIZATION REPORT ADDENDUM New York State Department of Environmental Conservation Wainscott, Suffolk County, New York Project No.: 60566160 Date: July 2019

SITE LOCATION PLAN









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TA LES

								Ground	dwater Sar	npling Dat	a					
Analytes	Health Advisory Water	Area			North Field			Sound Aircraft Services		Airport Pa	arking Lot		Northwest Woods	Daniels Hole Road	East Har	mpton PD
	Quality Standards ¹	MW ID	EH-B	EH	-B1	EH-E	EH-E1	EH-SAS	EH-16	EH-161	EH-	162	EH-C	MW-10*	Eŀ	1 -1
		Date	5/7/2018	8/9/2018	3/4/2019	5/7/2018	8/10/2018	8/10/2018	5/7/2018	8/9/2018	8/10/2018	3/4/2019	5/7/2018	5/8/2018	5/8/2018	3/4/2019
Perfluoroalkane Sulfonic Acids																
Perfluorobutane sulfonic acid (PFBS)	NS		42	2.4 J	4.1 J	4.9	9.4	.90 U	.90 U	.90 U	4.2 J	4.1 J	.90 U	.90 U	8.3	8.8
Perfluorohexane sulfonic acid (PFHxS)	NS		130	34	57	52	24	1.8 J	2.1 J	1.3 J	68	32	.94 U	.94 U	730	25
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	2.8 J	5.0	.88 U	.88 U	.88 U	.88 U	.88 U	4.4	1.8 J	.88 U	.88 U	36	.72 J
Perfluorooctane sulfonic acid (PFOS)	70		1.1 J	270	110	16	1.1 J	3.7	40	1.4 J	290	130	1.0 U	1.4 J	1.8 J	.99 J
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	.30 U	1.3 U	1.3 U	1.3 U	.30 U
Perfluoroalkane Carboxylic Acids											<u>.</u>					
Perfluorobutanoic acid (PFBA)	NS		37	6.5 J	13	5.6 J	2.7 U	2.7 U	5.4 J	2.7 U	4.2 J	3.9 J	2.7 U	2.7 U	37	43
Perfluoropentanoic acid (PFPeA)	NS		120	5.9	20	17	8.1	1.1 U	1.1 U	1.1 U	3.0 J	2.9 J	1.1 U	1.1 U	76	110
Perfluorohexanoic acid (PFHxA)	NS		150	13	32	17	11	.92 U	2.0 J	.92 U	8.9	8.8 U	.92 U	.92 U	65	110
Perfluoroheptanoic acid (PFHpA)	NS		8.9	2.7 J	9.8	2.2 J	1.2 U	1.2 U	2.1 J	1.2 U	3.3 J	3.3 J	1.3 J	1.2 U	40	30
Perfluorooctanoic acid (PFOA)	70		.81 J	17	25	1.7	.48 U	2.6 U	1.7 J	1.2 J	9.3	9.5	.46 U	.46 U	160	6.0
Perfluorononanoic acid (PFNA)	NS		.94 U	1.0 J	1.4 J	1.7 U	.94 U	1.5 J	1.5 U	.94 U	.94 U	1.1 U	.99 U	.94 U	1.2 U	1.1 U
Perfluorodecanoic acid (PFDA)	NS		.92 U	.52 U	1.2 U	1.6 U	.52 U	.60 U	1.0 U	.70 J	.52 U	1.2 U	1.1 U	.67 U	.82 U	1.2 U
Perfluoroundecanoic acid (PFUnDA)	NS		1.6 U	.31 U	1.5 U	1.1 U	.31 U	.31 U	1.8 U	1.6 J	.31 U	1.5 U	1.1 U	1.0 U	1.4 U	1.5 U
Perfluorododecanoic acid (PFDoDA)	NS		.76 U	.46 U	1.3 U	.87 U	.46 U	.46 U	1.4 U	.46 U	.46 U	1.3 U	.78 U	.89 U	1.2 U	1.3 U
Perfluorotridecanoic acid (PFTrDA)	NS		.83 U	.75 U	1.3 U	.82 J	.75 U	.75 U	.94 J	.75 U	.75 U	1.3 U	1.2 J	.75 U	.90 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	2.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.0 U	1.2 U	1.2 U	1.2 U	2.0 U
Perfluoroalkyl Sulfonamides	-															
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.52 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.52 U	.35 U	.35 U	.35 U	.52 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 UJ	1.4 U	4.2 UJ	4.2 U	4.2 U	4.2 UJ	4.2 UJ	4.2 U	1.4 U	4.2 UJ	4.2 UJ	4.2 UJ	1.4 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.50 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.50 U	8.3 U	.83 U	.83 U	.50 U
(n:2) Fluorotelomer Sulfonic Acids	•	•														
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	1.2 U	7.1	1.2 U	1.2 U	1.6 J	1.2 U	1.2 U	1.2 U	4.5	1.2 U	1.2 U	7.0	3.0 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	.65 U	.15 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.15 U	.65 U	.65 U	.65 U	.15 U
			Notes:					U						·1		<u> </u>

NS - No standard exists

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1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

East Hampton Airport 200 Daniels Hole Road Wainscott, New York

									Gro	undwater \$	Sampling D	Data						
Analytes	Health Advisory Water	Area				AF	RFF				Aircraft/H Taxi			d of Main way	Middle of Main Runway	East Field	Local Television Inc.	East End Hangars
	Quality Standards ¹	MW ID	EH·	·19A	EH-19A1	EH-	19A2	EH-	·19B	EH-19B1	EH-A	CATCH BASIN	EH	I-P1	EH-P2	EH-P3	EH-10	EH-18
		Date	5/8/2018	3/5/2019	8/10/2018	8/10/2018	3/5/2019	5/8/2018	3/5/2019	8/10/2018	5/8/2018	5/9/2018	5/8/2018	8/10/2018	5/8/2018	5/8/2018	5/8/2018	5/9/2018
Perfluoroalkane Sulfonic Acids																		
Perfluorobutane sulfonic acid (PFBS)	NS		360	40	12	8.5	7.8	29	200	8.5	.90 U	.90 U	1.0 J	.90 U	.90 U	.90 U	.90 U	.90 U
Perfluorohexane sulfonic acid (PFHxS)	NS		240	150	1.5 J	85	18	750	930	3.7 J	.94 U	.94 U	3.0 J	1.0 J	.94 U	1.0 J	.94 U	.94 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	.44 U	.88 U	2.1 J	2.1 J	12	17	.88 U	.88 U	.88 U	0.88 UJ	.88 U	.88 U	.88 U	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		5.0	2.4	1.4 J	140	150	77	87 J	9.7	1.0 J	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	.30 U	1.3 U	1.3 U	.30 U	1.3 U	.30 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	NS		710	400	3.9 J	82	51	61	120	8.8	2.7 U	2.7 U	3.7 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Perfluoropentanoic acid (PFPeA)	NS		2600	1200	1.1 U	140	120	170	360	6.5	1.1 U	1.1 U	6.8 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		2800	1100	1.9 J	150	93	200	380	7.7	.92 U	.92 U	9.9 J	.92 U	.92 U	.92 U	.92 U	.92 U
Perfluoroheptanoic acid (PFHpA)	NS		1500	1100	1.2 U	99	46	180	290	1.2 U	1.6 U	2.6 U	8.0 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluorooctanoic acid (PFOA)	70		140	170	1.2 J	34	15	89	120	2.1	.46 U	.46 U	7.4 J	.46 U	.46 U	.46 U	.46 U	.46 U
Perfluorononanoic acid (PFNA)	NS		7.0 U	1.1 U	.94 U	17	10	14	28	.94 U	1.5 U	2.1 U	8.9 UJ	.94 U	1.0 U	1.1 J	.94 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		1.8 U	1.2 U	.52 U	4.1 J	4.4	2.3 U	1.8 J	.52 U	2.3 U	1.5 U	9.5 UJ	.52 U	1.0 U	.93 U	1.0 U	.71 U
Perfluoroundecanoic acid (PFUnDA)	NS		2.6 U	1.5 U	.31 U	2.2 J	1.5 U	2.2 U	1.9 J	1.1 J	1.5 U	1.6 U	12 J	.43 J	1.3 U	1.1 U	1.4 U	1.2 U
Perfluorododecanoic acid (PFDoDA)	NS		1.1 U	1.3 U	.46 U	.46 U	1.3 U	.63 U	1.3 U	.46 U	.67 U	1.7 U	21 J	.46 U	1.1 U	.87 U	.96 U	.86 U
Perfluorotridecanoic acid (PFTrDA)	NS		1.7 U	1.3 U	.75 U	.75 U	1.3 U	1.2 U	1.3 U	.75 U	1.1 U	1.5 U	20 J	.75 U	1.2 U	1.3 J	1.1 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	2.0 U	1.2 U	1.2 U	2.0 U	1.2 U	2.0 U	1.2 U	1.2 U	1.2 U	19 J	1.3 J	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides																		
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.52 U	.35 U	.35 U	.52 U	.35 U	.52 U	.35 U	.35 U	.35 U	.35 UJ	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	1.4 U	4.2 UJ	4.2 UJ	1.4 U	4.2 UJ	1.4 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.50 U	.83 U	.83 U	.50 U	.83 U	0.5	.83 U	.83 U	.83 U	.83 UJ	.83 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids																		
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		7.0	4.6	1.6 J	3.9 J	2.8 J	120	120	1.2 U	1.2 U	1.2 U	1.4 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		2.8 J	.65 J	.65 U	50	63	14	8.7	5.0	.65 U	.65 U	.65 UJ	.65 U	.65 U	.65 U	.65 U	.65 U

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1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

Analytes	Health Advisory Water	Area									QA	VQC Sam	ples								
	Quality Standards ¹	MW ID		DUP				EQUIPN	IENT BLANK				I	FIELD BLANI	ĸ				MS/MSD		
	i	Date	5/8/2018	8/10/2018	3/4/2019	5/7/2018	5/8/2018	5/9/2018	8/10/2018	3/4/2019	3/5/2019	5/7/2018	5/8/2018	8/10/2018	3/4/2019	3/5/2019	5/8/2018	5/8/2018	8/10/2018	8/10/2018	3/5/2019
Perfluoroalkane Sulfonic Acids																	•			•	
Perfluorobutane sulfonic acid (PFBS)	NS		.90 U	9.1	3.8 J	.90 U	.90 U	.90 U	.90 U	.28 U	.28 U	.90 U	.90 U	.90 U	.28 U	.28 U	.90 U	.90 U	.90 U	.90 U	.28 U
Perfluorohexane sulfonic acid (PFHxS)	NS		.94 U	57	35	.94 U	.94 U	.94 U	.94 U	1.3 U	1.3 U	.94 U	.94 U	.94 U	1.3 U	1.3 U	.94 U	.94 U	.94 U	.94 U	1.3 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	1.6 J	1.9 J	.88 U	.88 U	.88 U	.88 U	.44 U	.44 U	.88 U	.88 U	.88 U	.44 U	.44 U	.88 U	.88 U	.88 U	.88 U	.44 U
Perfluorooctane sulfonic acid (PFOS)	70		1.3 J	100	120	1.0 U	1.0 U	1.0 U	1.0 U	.44 U	.44 U	1.0 U	1.0 U	1.0 U	.44 U	.44 U	1.0 U	1.0 U	1.0 U	1.0 U	.44 U
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	.30 U	1.3 U	1.3 U	1.3 U	1.3 U	.30 U	.30 U	1.3 U	1.3 U	1.3 U	.30 U	.30 U	1.3 U	1.3 U	1.3 U	1.3 U	.30 U
Perfluoroalkane Carboxylic Acids				<u>.</u>												•			-		
Perfluorobutanoic acid (PFBA)	NS		2.7 U	73	4.2	2.7 U	2.7 U	2.7 U	2.7 U	.40 U	.40 U	2.7 U	2.7 U	2.7 U	.40 U	.40 U	2.7 U	2.7 U	2.7 U	2.7 U	.40 U
Perfluoropentanoic acid (PFPeA)	NS		1.1 U	160	3.1 J	1.1 U	1.1 U	1.1 U	1.1 U	1.7 U	1.7 U	1.1 U	1.1 U	1.1 U	1.7 U	1.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.7 U
Perfluorohexanoic acid (PFHxA)	NS		.92 U	130	8.8 U	.92 U	.92 U	.92 U	.92 U	8.8 U	8.8 U	.92 U	.92 U	.92 U	8.8 U	8.8 U	.92 U	.92 U	.92 U	.92 U	8.8 U
Perfluoroheptanoic acid (PFHpA)	NS		1.2 U	100	3.7 J	1.2 U	1.2 U	1.2 U	1.2 U	.63 U	.63 U	1.2 U	1.2 U	1.2 U	.63 U	.63 U	1.2 U	1.4 J	1.2 U	1.2 U	.63 U
Perfluorooctanoic acid (PFOA)	70		.46 U	28	9.1	.46 U	.46 U	.46 U	.46 U	.35 U	.35 U	.46 U	.46 U	.46 U	.35 U	.35 U	.46 U	.46 U	.46 U	.55 J	.35 U
Perfluorononanoic acid (PFNA)	NS		.94 U	13	1.1 U	.94 U	.94 U	.94 U	.94 U	1.1 U	1.1 U	1.0 J	.94 U	.94 U	1.1 U	1.1 U	.94 U	1.1 J	.94 U	.94 U	1.1 U
Perfluorodecanoic acid (PFDA)	NS		.82 U	3.4 U	1.2 U	.52 U	.73 U	.68 U	.52 U	1.2 U	1.2 U	.71 U	.52 U	.52 U	1.2 U	1.2 U	.87 J	.84 J	.52 U	.60 J	1.2 U
Perfluoroundecanoic acid (PFUnDA)	NS		1.0 U	1.3 J	1.5 U	.85 U	.90 U	.73 U	.31 U	1.5 U	1.5 U	.94 U	.87 U	.31 U	1.5 U	1.5 U	1.1 J	1.0 J	.31 U	.31 U	1.5 U
Perfluorododecanoic acid (PFDoDA)	NS		.58 U	.46 U	1.3 U	.55 U	.80 U	.73 U	.46 U	1.3 U	1.3 U	.75 U	.46 U	.46 U	1.3 U	1.3 U	.81 J	.95 J	.46 U	.46 U	1.3 U
Perfluorotridecanoic acid (PFTrDA)	NS		.78 U	.75 U	1.3 U	.75 U	.75 U	.75 U	.75 U	1.3 U	1.3 U	.75 U	.75 U	.75 U	1.3 U	1.3 U	.75 U	.79 J	.75 U	.75 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	2.0 U	1.2 U	1.2 U	1.2 U	1.2 U	2.0 U	2.0 U	1.2 U	1.2 U	1.2 U	2.0 U	2.0 U	1.2 U	1.2 U	1.2 U	1.2 U	2.0 U
Perfluoroalkyl Sulfonamides																					
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.52 U	.35 U	.35 U	.35 U	.35 U	.52 U	.52 U	.35 U	.35 U	.35 U	.52 U	.52 U	.35 U	.35 U	.35 U	.35 U	.52 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 U	1.4 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	1.4 U	1.4 U	4.2 UJ	4.2 UJ	4.2 UJ	1.4 U	1.4 U	4.2 U	4.2 U	4.2 U	4.2 U	1.4 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.50 U	.83 U	.83 U	.83 U	.83 U	.50 U	.50 U	.83U	.83 U	.83 U	.50 U	.50 U	.83 U	.83 U	.83 U	.83 U	.50 U
(n:2) Fluorotelomer Sulfonic Acids																					
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	5.1	3.7 J	1.2 U	1.2 U	1.2 U	1.2 U	.55 U	.55 U	1.2 U	1.2 U	1.2 U	.55 U	.55 U	1.2 U	1.2 U	1.2 U	1.2 U	.55 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	46	.15 U	.65 U	.65 U	.65 U	.65 U	.15 U	.15 U	.65 U	.65 U	.65 U	.15 U	.15 U	.65 U	.65 U	.65 U	.65 U	.15 U
			Notes:																		

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			Drum W	aste Sampl	ing Data	East Hampton
Analytes	Health Advisory Water		Sc	bil	Water	Executive Terminal
	Quality Standards ¹	Sampling Location	IDW 1	IDW 2	IDW	Tap Water
		Date	12/14/2018	12/14/2018	12/14/2018	12/14/2018
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	NS		.22 U	.22 U	200	.28 U
Perfluorohexane sulfonic acid (PFHxS)	NS		.30 U	.30 U	610	1.3 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		.062 U	.062 U	34	.44 U
Perfluorooctane sulfonic acid (PFOS)	70		.13 U	.13 U	150	.44 U
Perfluorodecane sulfonic acid (PFDS)	NS		.17 U	.17 U	.30 U	.30 U
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	NS		.39 U	.39 U	180	.40 U
Perfluoropentanoic acid (PFPeA)	NS		.21 U	.21 U	490	1.7 U
Perfluorohexanoic acid (PFHxA)	NS		.31 U	.31 U	510	8.8 U
Perfluoroheptanoic acid (PFHpA)	NS		.19 U	.19 U	300	.63 U
Perfluorooctanoic acid (PFOA)	70		.13 U	.13 U	130	.64 J
Perfluorononanoic acid (PFNA)	NS		.33 U	.33 U	27	1.1 U
Perfluorodecanoic acid (PFDA)	NS		.26 U	.26 U	1.3 J	1.2 U
Perfluoroundecanoic acid (PFUnDA)	NS		.18 U	.18 U	1.5 U	1.5 U
Perfluorododecanoic acid (PFDoDA)	NS		.27 U	.27 U	1.3 U	1.3 U
Perfluorotridecanoic acid (PFTrDA)	NS		.21 U	.21 U	1.3 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		.18 U	.18 U	2.0 U	2.0 U
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	NS		.067 U	.067 U	.52 U	2.1 J
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		.27 U	.27 U	1.4 U	1.4 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.20 U	.20 U	.50 U	.50 U
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		.15 U	.15 U	100	.55 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.029 U	.029 U	14	.15 U

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Units are in ng/L (nanograms/liter)

1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

NYSDEC records for Spill #98-10855



NYSDEC Region 1, SUNY, Bldg. 4	40. Stony Brook, NY 11790-2356		
	00 N	1955	
		time in	time ou
Location	Representatives on site		
Name East Hampton Airport	DEC Matt Dascungelo		
Address Daniel Hole Kd			<u> </u>
Town Gast Hampton			
Phone Weather Temperature General conditions	PRP		
humidity Cold Sunny	-		<u> </u>
Humid Warm Cloudy			-
Very humid Hot Rain / Snow			
Date Time	Inspection Narrative		
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NYSDEC Region 1, SUNY, Bldg. 40, Stony Brook, NY 11790-2356

Field	Notes	Phone	Conversation D	Aceting Notes Spill No. 96-10	0855	
Location	1			Representatives on site	time in	time out
Address	Dani God Ie	Kamp tar cl_1tol	General conditions	DEC Matt Darcangelo John Clatten Town Patt Ryan Town 537-1130 PRP Dauged Scheinberg	ord	638
(Dr) Humid Very humi	W	ir, and 5t	Partly Cloudy Cloudy Rain / Snow			
Date	Time		· · · · · · · · · · · · · · · · · · ·	Inspection Narrative		
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	•		-275	Continued	Page 1	<u>n JC (d(</u> _0f

Fiel	d Notes	L Phone	Converse			Spill No. <u>9</u> 5-		1.
Locatio)n				Representatives on	site	time in	time ou
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NYSDEC Region 1, SUNY, Bldg. 40, Stony Brook, NY 11790-2356



Field Notes	Phone Conversation	leeting Notes Spill No. <u>98-</u>	0855	
Location		Representatives on site	time in	time out
Address Danie	Hampton Air Port	DEC MattDarcangelo		
	mpten			· · ·
Phone		PRP		1
Weather Tem humidity Col Dry Fair Humid War Very humid Hot	Partly Cloudy m Cloudy			
Date Time		Inspection Narrative		
11/30/18 10:57	Teleon to Tom Spa - Rob Defand	datora of Blue Was Dia is onsite	ler,	
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New York State Department of Environmental Conservation Building 40 - SUNY, Stony Brook, New York 11790-2356

TEL # (516) 444-0320 FAX # (516) 444-0373

REQUEST FOR CLEANUP NOTIFICATION FORM - FIELD ISSUE

IMMEDIATE CLEANUP REQUIRED

WITHIN 10-DAY PERIOD (Unless otherwise specified, the 10-day period will begin with the above date.)

SPILL #: 98-10855 SPILL LOCATION: Daniel Hole Rol East Hempton
RESPONSIBLE PARTY INFORMATION:
Address: <u>Storizon Rd Apt 1102</u>
Telephone: (201) 224 -7547
Contact Person(s): David Scheinberg
FINDINGS: <u>Elevated</u> reading of Volatile organic Compounds in sort Beneath location were plane incedent occurred releasing
Aviation Gasoline into soil.
WORK TO BE PERFORMED: Excavate all impacted soil. Properly
Dispose of soil according to all state and federal regulation
WORK TO BE PERFORMED: Excavate all impacted soil. Properly Dispose of soil according to all state and federal regulations and supply acopy of the disposal documents to the above eddress.

This letter serves as notice that the Department is directing you or your company to proceed with a cleanup of the abovereferenced site within the time frame indicated. You may either hire a contractor or do the work yourself. However, you must use a contractor with a 364 Transporter Permit to transport the contaminated material to a proper disposal facility.

If you do not proceed with the required cleanup within the time frame noted above, this office will proceed with the cleanup of the site, and the New York State Department of Law will seek reimbursement along with an assessment of penalties from you in accordance with Article 12/of the New York State Navigation Law.

Finded III	1/24/48	(S
Responsible Party/Agent	Pate	
Spill Response Investigator	11/25/58 Date	(C

(Signature acknowledges receipt only)

Original to RP, Copy to DEC)

(CNF rev 10/96)

98-10855



Endofhuncous where Plane Crashes spilling AU. Gas Cone in Cocation of spill Form surrow org spill East Hampton Air Port msp

Airport / RP 50 do Clean of Today 11/30 - Need to Backfill today - Will need a inspection doolay. - Conduct Airport Pathganger John Chitken Secretary manica To see what time. - Blue water will most likely Be contractor.

w York State Department of Environmental Conservation ailding 40 - SUNY, Stony Brook, New York 11790-2356

TEL # (516) 444-0320 FAX # (516) 444-0373

REQUEST FOR CLEANUP NOTIFICATION FORM - FIELD ISSUE

Date 1/ 24/95/

____ WITHIN 10-DAY PERIOD (Unless otherwise specified, the 10-day period will begin with the above date.)

SPILL #: 98-10855 SPILL LOCATION: Daniel Hole Roy Good Hampton
RESPONSIBLE PARTY INFORMATION:
Address: <u>SHOrizon Rd Apt 1102</u>
Telephone: $(a01) aa4 - 7547$
Contact Person(s): David Scheinberg
FINDINGS: <u>Elevated</u> reading of Volatile organic Compounds in sort <u>Beneath</u> location were plane incedent occurred releasing Aviation Gasoline into mil
Aviation Gasoline into soil
WORK TO BE PERFORMED: Excavate all impacted soil. Property
WORK TO BE PERFORMED: Excavate all impacted soil. Properly Dispose of soil acroiding to all state and federal regulation, and supply acopy of the disposal documents to the above address.
above address.

This letter serves as notice that the Department is directing you or your company to proceed with a cleanup of the abovereferenced site within the time frame indicated. You may either hire a contractor or do the work yourself. However, you must use a contractor with a 364 Transporter Permit to transport the contaminated material to a proper disposal facility.

If you do not proceed with the required cleanup within the time frame noted above, this office will proceed with the cleanup of the site, and the New York State Department of Law will seek reimbursement along with an assessment of penalties from you in accordance with Article 12/of the New York State Navigation Law.

Responsible Party/Agent Date Spill Response Investigator Date

(Signature acknowledges receipt only)

(Original to RP, Copy to DEC)

(CNF rev 10/96)

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From the desk of...

Matthew Darcangelo Environmental Engineer Spill Response (516) 444-0336 Fax: (516) 444-0373

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NYSDEC Region 1, SUNY, Bldg. 40, Stony Brook, NY 11790-2356



□ Field Notes □ Phone Conversation □ Meeting Notes

ing Notes Spill No. <u>18-10855</u>

time in time out Representatives on site Location AIN PONT DEC GAST HAMPTON Name Address Town Phone PRP General conditions Temperature Weather <u>humidity</u> Sunny Cold Partly Cloudy Fair Dry Cloudy Humid Warm Rain / Snow Very humid Hot Inspection Narrative Date Time 11/30/98 Da SITE 10 50 DECANDIA met ut terminal Ton Dolor JD possillico o danted in markel 2 fr estaco 11:30 ica (dore by mD) G-10 yos at continuated soil eraiche to be stack pled near JD construction trule & londer who hold at an 12/1 for deposer off site 12:00 Det desan -6H

East Hampton Town Police Records



EAST HAMPTON TOWN POLICE

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Event List

Case Folder No.	Event No.	Event Occurrence Date	Event Type	Street Address	Event Received Date
EHT-CR-711-20			ACCIDENT PLANE	468 E LAKE DR	8/10/2020 12:47:24 PM
EHT-CR-314-20	EHT-EV-3687-20	4/25/2020 1:39:36 PM	ACCIDENT PLANE	173 DANIELS HOLE RD	4/25/2020 1:39:30 PM
EHT-CR-775-18	EHT-EV 6007-18			WELLS HWY	PM
EHT-CR-1135-16	EHT-EV-11792-16	8/4/2016 1:07:30 PM	ACCIDENT PLANE	200 DANIELS HOLE RD	8/4/2016 1:07:30 PM
	EHT-EV-9721-15		ACCIDENT PLANE	AIRPORT E LAKE	PM
HT-CR-270-15	EHT-EV-2628-15	3/18/2015 4:57:56 PM	ACCIDENT PLANE	DR 200 DANIELS HOLE RD	3/18/2015 4:57:56 PM
	PHT-EV-12228-12	8/26/2012 5:24:03 PM	ACCIDENT PLANE	200 DANIELS HOLE RD	8/26/2012 5:24:03 PM
	PHT-EV-7728-12	7/2/2012 4:09:21 PM	ACCIDENT PLANE	200 DANIELS HOLE RD	7/2/2012 4:09:21 PM
	2HT-EV-10836-11	8/5/2011 8:30:27 PM	ACCIDENT PLANE	DEFAULT UNKNOWN	8/5/2011 8:30:27 PM
l	54TT-EV-4136-11	4/30/2011 6:47:00 PM	ACCIDENT PLANE	200 DANIELS HOLE RD	4/30/2011 6:47:00 PM
(9/0/2010 E/0/00 BM			PM
•	EV 11227.10.	8/28/2010 2:27:00 PM			072072010 2.27.0 0 PM
•	FUT FV, 2742-10			AND DE LARCE AND	47 <i>572010 5.52.00</i> PM
l	ЕНТ-EV-15192-09	12/27/2009 3:07:00 PM	ACCIDENT PLANE	75 DANIELS HOLE RD	12/27/2009 3:07:00 PM
	EHT 5V 11718-09	9/19/2009 3:02:00 PM	ACCIDENT PLANE		971973009 3:02:00 PM
			ACCIDENT PLANE	414 EAST LAKE DR	
	PHT-EV-4958-08	5/22/2008 5:29:00 PM	ACCIDENT PLANE	DANIELS HOLE RD	5/22/2008 5:29:00 PM
· ·····	EUT EV 9428-07	8/12/2007 11:51:00 AM	ACCIDENT PLANE	EAST LAKE DR	0/12/2007
					11:51:00 AM
					12:52:00 PM
1	EHT-EV-5025-07	5/29/2007 2:00:00 PM	ACCIDENT PLANE		5/29/2007 2:00:00 PM
					<i>элтугоот э.эг.</i> ос РМ
· · · · ·	El -Carlo (1968) - 05	8/12/2005-2-24/09-111	A DENTPLANE	EAST LAKE DRIVE	87 1272005 5.2 1.00 PM
<u>i</u>	FA-012084-04	10/29/2004 3:28:00 PM	ACCIDENT PLANE	DANIELS HOLE ROAD	10/29/2004 3:28:00 PM

,se Folder No.	Event No.	Event Occurrence Date	Event Type	Street Address	Event Received Date
					PM
	EH-011604-03	11/6/2003.9:08:00.PM			PM
				E 414 EAST LAKE D	R 16/6/2003 9:30:0 AM
	EH-013453-02	12/11/2002 9:18:00 AM	ACCIDENT PLAN	E STEPHEN HANDS PATH	12/11/2002 9:18:00 AM
					PM
	EH-007365-02			AIRPORT	PM
	EH-006842-02				771272002 7.40. PM
	E4-003625-01	5/18/2001 3:32:00 PM	ACCIDENT PLANE	DANIELS HOLE ROAD	5/18/2001 3:32:0 PM
	EH_000637-01	1/28/2001 7:42-00 814 800 80	ACCIDENT PLANE	AIRPORT	172872001 7.47. PM
	EH MAARGE OR MAN		ACCIDENT PLANE	AIRPORT	4:54:00 PM
V	EH-007629-00	8/15/2000 4:41:00 PM	ACCIDENT PLANE	EAST HAMPTON AIRPORT	8/15/2000 4:41:0 PM
V	EH-005039-00	6/21/2000 10:59:00 AM	ACCIDENT PLANE		6/21/2000 10:59:00 AM
	EH-003266-00	5/3/2000 10:24:00 444			
	FU-010402-00				АМ
	EH 010403.99		ACCIDENT PLANE	AIRPORT LAST	PM
V	FH-006588-99	7/29/1999 3:10:00 PM	ACCIDENT PLANE	AIRPORT DANIELS HOLE ROAD	7/29/1999 3:10:0 PM
V	ÆH-002169-99	4/2/1999 11:18:00 PM	ACCIDENT PLANE	EAST HAMPTON AIRPORT	4/2/1999 11:18:0 PM
V	ЕН-010273-98	11/29/1998 12:31:00 PM	ACCIDENT PLANE	EAST HAMPTON AIRPORT	11/29/1998 12:31:00 PM
V	EH-010193-98	11/26/1998 11:36:00 AM	ACCIDENT PLANE	EH AIRPORT DANIELS HOLE RD	11/26/1998
V	FH-007596-98	8/30/1998 2:20:00 PM	ACCIDENT PLANE	DANIELS HOLE	8/30/1998 2:20:00 PM
И	H-008533-97	10/11/1997 2:13:00 PM	ACCIDENT PLANE	EH AIRPORT	10/11/1997 2:13:00 PM
ų.	EH 004602-07	7/4/1997 1:00:00 PM			
	/			AIRPORT	PM
				1	
V	EH-003906-97	6/15/1997 12:13:00 PM	ACCIDENT PLANE		6/15/1997 12:13:00 PM
V	EH-003906-97	6/15/1997 12:13:00 PM		AIRPORT	12:13:00 PM
V				AIRPORT AMAGANSETT	12:13:00 PM 9-15:10:00 PM AM 97:10:10:00 PM
V	H-004115-96	6/16/1996 1 30:00 AM		AIRPORT AMAGANSETT AIRPORT FAST	12:13:00 PM 07-07-090 - 15000 AM
	H-004115-96	6/16/1996 1 30:00 AM	ACCIDENT PLANE	AIRPORT AMAGANSETT AIRPORT FAST AIRPORT FAST MONTAUK EAST HAMPTON	12:13:00 PM 9-15:10:00 PM AM 9/2:01-10:00 PM

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e Folder No.	Event No.	Event Occurrence Date	Event Type	Street Address	Event Received Date
				HAMPTON	
V	EH-006486-95	8/21/1995 2:19:00 PM	ACCIDENT PLANE	DANIELS HOLE RD, WAINSCOTT	8/21/1995 2:19:00 PM
	EH-008685-93	12/3/1993 8:22:00 AM	ACCIDENT PLANE	SOUND AIRCRAFT SERVICE, EAST HAMPTON	12/3/1993 8:22:00 AM
V	EH-007470-93	10/6/1993 12:38:00 PM	ACCIDENT PLANE	,	10/6/1993 12:38:00 PM
	EH-006696-91				44:00
			· · ·	MONTAUK	PM
	EH-006350-91	8/23/1991 12:31:00 AM	ACCIDENT PLANE	EAST HAMPTON AIRPORT	8/23/1991 12:31:00 AM
	EH-006357-91	8/23/1991 12:31:00 AM	ACCIDENT PLANE		8/23/1991 12:31:00 AM
	FUL-BOCODO-O-PHONE	57-67-19-5-00 AIV	ACCIDENT CANE		
				AIRPORT, MONTAUK	AM
	Elementaria	11/15/1990 11:14:00 AM	ACCIDENT PLANE	SOMEWARD	
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Record Count: 57

		1. Agency EAST HAMPTON TO			INCIDEN	rk State REPORT	3. ORI NY 0515	1	. 📋 Orig 🔀 Supp	5. Case No EHT-CR	i	6. Incident No. EHT-EV-3687-20
	Ì	7. Report Day 8. Date Sat 04 2	, .	Ort Time Occurred On/From:	10. Day 11. Day 51. Da		12. Time 20 1339	To:		14. Date	.	15. Time
	Ξ	16. Incident Type		· ···	usiness Name	20 1	18. Weap		Sat	04 28	5 20	1339
THE COLON		ACCIDENT PLAN 19. Incident Address (Street No		No., Apt. No.)			0. City, State, Zip		T			
3		173 DANIELS HO					AST HAMP				de	
		22. OFF. NO. LAW	SECTION SUB	CL CAT	DEG ATT		NAME OF	OFFENSE		CTS 2	23. No. of Vi	ctims
		2									24. No. of St	uspects
\vdash	+	3 25. Person Type: CO = Compl	lainant OT = Other Pl	= Person Interviewen	PR = Parson Ron	orting Wil - Milt-		·				
v.		TYPE/NO NAME (LAS	ST, FIRST, MIDDLE, TIT	LE) Date of Bi	th STREET NO.	, STREET NAME	E, BLDG. NO., AP	FIND., CITY	STATE. ZIP		EPHONE N	
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	1.	4. Victim DID receive information 5. Type/No. 36. Name (Last,		to Services pursuant l			Last, First, Middl	e)	38. Apparent (Condition		
DEPCON		9. Address (Street No., Street M	Name Bido No. Apl. N	City State Ziel)		· · · · · · · · · · · · · · · · · · ·		·	Impaired D Impaired A	rugs 🛄 Ment Ico 🛄 inj / III	al Dis App No	Unk. orm
			nano, olag. No., Apt. N	o., ony, oraie, zip/)		4	IO. Phone No.	L] Home	41. Social S	Security No.		1
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ERTY	╞	60. Vehicle 61. Licens	e Plate No.	Euli 62. State	63. Exp. Yr.	64 Olava 7			· · · · · · · ·			
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	74	WH Police Officer (To:		0.44		1975 Piper Warrier PA28 s	51/161 both rings dama	grd Kontwheel cover, a	ngise housing damaged lew	ed back to EHT Airpo	off tarmad
	p.	 Police Officer (f a plane accident lane bearing tail 	# N33005 on	the opposite	- HILPOIL O	i che ruma) Undersign ay, Upon a	ned offi arrival,	cer resp undersi	onded to	a repo erved a	ort
	a. p:	irport personnel a llot, Eleanor McAu	and EHFD Chier	f on scene. T	the plane wa	as right s	ide up and	st Hampt 1 all oc	on Town cupants	Airport were out	with	
TIVE	aı ma	nd at approximatel	ly 400ft in al	ltitude she a	ttempted to	make a r	ight hand	ig to ta turn wh	ke off f en the e	rom the engine	runway	
NARRATIVE	a	reraft prior to c	Coming in cont	and solution	co rand bat		ne runway.	She was	s unable	to stop	the	
Ň	pe	rsonnel Dana Bran	icato (Senior	airport atta		ging the	rence and	plane. 1	East Ham	pton Town	n Airpo	rt
	ir	vestigator respon	ided to interi	riow the pile		cowed bac	A LO EHT A	urport p	property	'while th	heir	
	wł	o is the		ound Aircraft	Services a	t 1455 ho	urs under	the dire	ection o	#925 of 1 f Evan Ca	the atarell	
Ĕ		Inquiries (Check all that apply) DMV Want/Warr	ani Scofflaw	76. NYSPIN	Message No.	77. Complainar	nt Signature			<u></u> -		B Use cover sheet
TRAT		Crim. History Stolen Prop Reporting Officer Signature (In		1 79. ID I	io.	80. Supervisor	s Signature (Inclu	de Rank)	<u></u>	91 (5) 11-		^{85.} 1
ADMINISTRATIVE	0.2	Ptotus 110								81. ID No.	:	Page
<u>ā</u>	σ Ζ .	Status Open Closed (i Pros Declined Warrant Advi	it Closed, check box be isedCBIJuv N	low) Unfounded lo Custody Arrest	- Juv Offender	i to Coop.	Arrest Declin L. j Unk.	83. Status D	ate	84. Notified/T	от	<u>0</u>
		CJS-3205 (11/06) *FALSE STA	**************************************	· · · · · · · · · · · · · · · · · · ·	1999 - 1999 - 1994 - 1994 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -			::			i 	Pages
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	1. Agency 2. Division/Precinct New York	n orare	3. ORI	4	I. [] Orig	5. Case N	D.	6. Incident N
	EAST HAMPTON TOWN POLICE: EHTPD INCIDENT 7. Report Day 8. Date 9. Report Time Occurred 10. Day 11. Date		^{NY} 0515	200	🗙 Supp	EHT-CI	R-314-20	EHT-EV-3
Í	Sat 04 05 00 00/From: 0. Day 11, Date	1	12. Time	Occurred To:		14. Date	 	15. Time
		25 2		>	Sat	04 2	5 20	13:
INCIDENT			18. Weapo	on(s)				
18	19. Incident Address (Street No., Street Name, Bldg. No., Apt. No.)	20	City State Zin		T (] \ 0 \ 7			
≝	173 DANIELS HOLE RD		City, State, Zip				ode	
	22. OFF. NO. LAW SECTION SUB CL. CAT DEG ATT	······	NAME OF		11937 3	1		
1		↓				CTS	23. No. of V	ictims
	2	4 <u></u> .		,		+	24 No -4 0	
	3	,					24. No. of S	
	25. Person Type: CO = Complainant OT = Other PI = Person Interviewed PR = Person Report	ting WI = Witnes	s NI = Not Inte	erviewed VI	= Victim 26. \	/ictim also cor	mplainant	
SNC	TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Date of Birth STREET NO., S	STREET NAME,	BLDG. NO., APT	T. NO., CITY ,	STATE, ZIP			· · ·
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	27. Date of Birth 28. Age 29. Sex 30. Race 31. Eth	hnia	20 11					
VICTIM	M F White Black L Other H H	panic 🖸 Unk, 🗍	32. Handicap	Reside	nce Status nt 🗌 Touris	st L. Studeni	s Foreign M	~
ź	34. Victim DID receive information on Victim's Rights and Services pursuant to New York State Law		<u>]</u> No	Commu	iter 🗋 Militar	y 🗌 Homete	ss 🗍 Unk	·
z	25 Tuto Ale 0.00 M		NO	<u> </u>	19 Ann			
PERSON		onviaicien Name (I	_ast, ⊢irst, Middli	· · · · · · · · · · · · · · · · · · ·	38. Apparent C Impaired Dr	nas 🗍 Mer	ital Dis	Unk.
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MISSING/ARREST	No Contacts Me	nall 🖾 Large			jo. Addri	533		
Ϊ	57. Scars/Marks/Tattoos (Describe) 58. M				<u>l</u>		• ••••• ••	
	59. Viclim or Property Property Quantity Make or Model	Serial	Nó,		Description	ande Neerse di Gradie anders	Vatu	
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3	60. Vehicle 61. License Plate No. 62. State 63. Evo V.							
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	B 66. Veh. Yr. 67. Make 68. Model 69. Style		70. VIN.			·		
	71. Cotor(s) 172. Towed By:		<u> </u>					
	To:	}	73. Vehicle Note	es				
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1	74. operations manager for that company and would be parked Services hangar at the EHT Airport for inspection.	ed on the	tarmac n	learest	to the S	ound Air	craft	
1								
+7	75. Inquiries (Check all that apply) 76. NYSPIN Message No. 7	7 Comela'	<u> </u>					B 4
	DMV Want/Warrant Scofflaw	7. Complainant S	signature	_				use cover sheet
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		30. Supervisor's S	signature (Includ	de Rank)		81. ID No.		<u> </u>
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		1. Agency 2. Division/F EAST HAMPTON TOWN POLICE EHTPD 7. Report Day 8. Date 9. Report Time		NCIDENT	rk State REPORT	3. O NY	05152	200	4. 🗌 Orig 🔀 Supp	5. Case M EHT-CI		6. Incident No. EHT-EV-11792-1
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SONS		TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE)	Date of Birth	STREET NO.	STREET NAM	IE, BLD	G. NO., APT	. NO., CITY	, STATE, ZIP	TI	ELEPHONE	NO
PER		OT1 TROTTA, FRANK PO	09/02/1973	131 WAI	ISCOTT	NW F	RD ,WA	INSCO	TT, NY 1	1975		
ASSOCIATED PERSONS		PI1 HARRIS, ANDREW	02/17/1949	23 SCH	NDLER	WA	Y ,FAIF	RFIEL	D, NJ 07	7004		
ASSO	-	OT3 MILLER, BRUCE						·		•		
	1	OT5 CHARLTON, JEMILLE				R ,S	OUTHA	MPTO	N, NY 1 [.]	1968		
VICTIM		27. Date of Birth 28. Age 29. Sex 30. Ra M M M M M U Indi Indi 4. Victim DID receive information on Victim's Rights and Services	ite 🗀 Black 🗌 an 🗍 Asian 🗍	Other	Ethnic Iispanic LJ Uni Ion-Hispanic	K. []		Resid	ence Status ent	ist 🗌 Temp. R ist 🔲 Studer ary 门 Home	nt i ⊡o⊪h	or 1
	1.5	5. Type/No. 36. Name (Last, First, Middle)			w L. YES me/Maiden Nan	ne (Last,		a)	38. Apparent	Condition		
DERSON		9. Address (Street No., Street Name, Bldg. No., Apt. No., City, St	ate, Zip))			40. Pho	one No.		Impaired (Impaired A 41. Social	Drugs L Me Mco Dinj / Security No.	ental Dis 🛄 III 🛄 App N	Unk. orm
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S AF	4	9. Height 50. Weight 51. Hair 52. Eyes	an Asian 53. Glasses	54.	Non-Hispanic Build	55.	Medium Employer/Se		, 56, Add	ress	···	
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		39. Viclim or Property Property Quantity	Make or	Model			an a	a (Stanoward)	The set address of			·
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PRO	LE LE	11-TOWED N47TJ Partial Partial <th< td=""><td>el</td><td>69, Style</td><td></td><td>17</td><td>D. VIN.</td><td></td><td></td><td></td><td></td><td></td></th<>	el	69, Style		17	D. VIN.					
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		71. Color(s) 72. Towed By: WHITE To:					Vehicle Note					
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	a	ircraft. He departed Caldwell NJ arm	iving in 1	n IOWN A:	LIPOIL A	NDRE	W HARRI	S was I	che pilo	t of his	s own	
ш	a	nd he eventually landed on the belly	of the p	aled thei lang The	e were (Three	e Green	's) mea	aning the	e gear w	as down	unc
NARRATIV	t) ri	he terminal were he met with FAA Ins inway by Grimes Company and towed to	pector Mcl	Dougal fo	or questi	oning	rport m J. The	anager) aircrai	escort	ed Mr. H	larris t	o
NARI	we	ere not injured during the incident.	Tail wing	g # N47TJ	1988 Be	echc	raft Bo	Mr Hai nanza.	ris and	his wif	e Patri	cia
IVE	÷. 1	DMV Wani/Warrant Scofflaw	6. NYSPIN Mes	sage No.	77. Complain	ant Sign	ature	<u> </u>				B use cover sheet
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		OT9 MCDOUGAL, THOMAS										
			1 11 	IDU REP	UBLIC AIRI	PORT , FAF		LE, NY	11735	en en se		
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F,	1.	Victim DID receive information on Victim's Rights and Service Type/No. 36. Name (Last, First, Middle)			_							
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ADMINISTRATIVE	82.	Status () Open () Closed (if Closed, check box below) () Pros Declined () Warrant Advised () CBI () Juv No Custod	Unfounded El Vic y El Arrest - Juv	tim Refused	to Coop.	Arrest	83. Status D	ale	84. Noti	fied/TOT	 	of 2 Pages

INCIDENT	1. Agency 2. Division/Precinct EAST HAMPTON TOWN POLICE EHTPD 7. Report Day 8. Date 9. Report Time Wed 03 18 15 1722 16. Incident Type 17. Bus 17. Bus ACCIDENT PLANE 17. Bus EH / 19. Incident Address (Street No., Street Name, Bldg. No., Apt. No.) 200 DANIELS HOLE RD 22. OFF. NO. 22. OFF. NO. LAW SECTION SUB CL CAT 1 2 3 3 14 15 17. Bus	New York State INCIDENT REPORT 3. ORI NY 4. jx Orig 0515200 5. Case No. 6. Incident No. 10. Day 11. Date 0515200 □ Supp EHT-CR-270-15: EHT-EV-2628 10. Day 11. Date 12. Time Occurred 13. Day 14. Date 15. Time Wed 03 18 15 1722 → Wed 03 18 15 1722 Jusiness Name 18. Weapon(s) 18. Weapon(s) 14. Location Code 1722 10. City, State, Zip (C X T V) 21. Location Code 5252 DEG ATT NAME OF OFFENSE CTS 23. No. of Victims 0 24. No. of Suspects 0 24. No. of Suspects 0
ASSOCIATED PERSONS	25. Person Type: C0 = Complainant OT = Other PI = Person Interviewed TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Date of Birth OT1 BULGIN, EDWARD, D 07/23/1953	IPR = Person Reporting WI = Witness NI = Not Interviewed VI = Victim 26. Victim also complainant □ Y ⊠ N rth STREET NO., STREET NAME, BLDG, NO., APT. NO., CITY, STATE, ZIP TELEPHONE NO. 152 163 OLD MILLSTONE RD ,SAG HARBOR, NY 11963 1110000000000000000000000000000000000
SUSPECT SUSPECT MISSING/ARRESTED PERSON VICTIM	 34. Victim DID receive information on Victim's Rights and Services pursuant to I 35. Type/No. 36. Name (Last, First, Middle) 39. Address (Street No., Street Name, Bldg. No., Apt. No., City, State, Zip)) 	an Unk. Non-Hispanic No Commuter Military Homeless Unk. o New York State Law YES NO 38. Apparent Condition Impaired Drugs Mental Dis Unk. 37. Alias/Nickname/Maiden Name (Last, First, Middle) 38. Apparent Condition Impaired Drugs Mental Dis Unk. 40. Phone No. Home Home Work 41. Social Security No. 46. Ethnic 47. Skin Unk. Home 48. Occupation n Unk. Dark Unk. Unk.
PROPERTY	S9. Victim or Suspect No. Property Status Property Type Quantity/ Measure Make or Drug Type 60. Vehicle Status 61. License Plate No. Full 62. State 66. Veh. Yr. 67. Make 68. Model 71. Color(s) 72. Towed 8y: To:	Model Serial No. Description Value 63. Exp. Yr. 64. Plate Type 65. Value 69. Style 70. VIN. 73. Vehicle Notes
NARRATIVE	a twin prop plane had skidded off the runway damage to the props and undercarriage. Conta lone occupant and pilot of said aircraft. Bu airport and upon landing it appeared that his control and skid off runway. BULGIN was unir off the plane's fuel valves. Det Honson #915	U/s and P.O. Montiel #194 responded to the EH airport for the /s pulled onto the main runway of the airport and observed that y and came to rest on the grass. The plane had significant tact was made with BULGIN, David who reported that he was the BULGIN further reported that he had just arrived from Islip is left side landing gear malfunctioned causing him to loose injured. North Sea FD chiefs where present at scene to shut 17 responded to the scene to initiate the investigation. ime later the FAA was contacted and informed of the incident.
ADMINISTRATIVE	Crim. History	Victim Refused to Coop Arrest 83 Status Date 84 Notified/TOT 1
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EAST HAMPTON, NY 11937 [5252 Z2, OPR, WW 84CTON State Control State Contro State Control							. Apt. No.)					20. City	, State, Zip (T ⊡V)	21. Locatio	on Code			
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TYPENO NAME LAST: REST. MODILE. TITLE) Date of Rem TREET NOME BLOG AND, APT MOD, GTY, STATE, 2# TOEPHONE HOD VII BOCHTER, STEVEN OSTION HARRIS DR, ASSONET, MA 02702 VII BRILLO, KIM GRIDGE DR, SAG HARBOR, NY 11963 WII THE DATE OF TO					‡					·f				•	•••		24. /	No. of Sus	pects	
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DCJS-3205 (11/06)	"FALSE STATEMENTS ARE PUNISHABLE AS A CRIME, PURSUANT TO THE NEW YORK STATE PENAL $ u$
0033-3203 (11/00)	FALSE STATEMENTS ARE PUNISHABLE AS A CRIME, PURSUANT TO THE NEW YORK STATE PENAL L

	1. Agency 2. Division/Precinct EAST HAMPTON TOWN POLICE EHTPD 7. Report Day 8. Date 9. Report Time Sun 08 26 12	New York State INCIDENT REPORT	3. ORI 4. ○ Orig NY 0515200 Supp 12. Time Occurred 13. Day 70: To: To: To:	5. Case No. 6. Incident No. EHT-CR-1661-12 EHT-EV-12228-1 14. Date 15. Time
NCIDENT	16. Incident Type 17 Busi	iness Name	2 1724 → Tue 18. Weapon(s) . City, State, Zip (□ C ⊠ T □ v)	08 28 12 1155
N	200 DANIELS HOLE RD 22. OFF. NO. LAW SECTION SUB CL CAT		AST HAMPTON, NY 11937	
			· · · · · · · · · · · · · · · · · · ·	24. No. of Suspects
	25. Person Type: CO = Complainant OT = Other PI = Person Interviewed F			
ERSONS	TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Date of Birth WI3 12/29/1994		BLDG. NO., APT. NO., CITY , STATE, ZI WAINSCOTT, NY 1	
ASSOCIATED PERSONS	WI4 .06/08/1979		,BROOKLYN, NY 1	
ASSOC	OT1 FERRARA, STEVEN	7150 REPUBLIC AV	/E ,FARMINGDALE, NY	11735
	OT2 ALVI, SHAUKAT	7150 REPUBLIC A	/E ,FARMINGDALE, NY	11735
VICTIM	27. Date of Birth 28. Age 29. Sex 30. Race 5 10 61 0051 0 White Black 34. Victim DID receive information on Victim's Rights and Services pursuant to N	Other Unk. Unk. Verk State Law YES	Yes 🛛 🗠 Resident 🖵 To	☐ Temp. Res Foreign Nat. urist ☐ Student ☐ Other litary ☐ Homeless ⊠ Unk.
Z		37. Alias/Nickname/Maiden Name	(Last, First, Middle) 38. Appare	nt Condition
T ED PERSON		i4	D. Phone No. 41. Soci	I Drugs □ Mental Dis □ Unk. <u>I Alco □ Inj / III □ App Norm</u> al Security No.
SUSPEC	42. Date of Birth 43. Age 44. Sex 45. Race M J F White Black	📖 Unk. 📃 Non-Hispanic		Occupation
SUSPECT MISSING/ARRESTED	49. Height 50. Weight 51. Hair 52. Eyes 53. Glasses 1 Yes 1 1 57. Scars/Marks/Tattoos (Describe) No	Contacts 54, Build Small Large Medium 58, Misc,	55. Employer/School 56. A	ddress
	59. Victim or Property Property Quantity/ Make or Suspect No. Status Type Measure Drug Type	Model	l No.	Non
'≿				
PROPERI	60. Vehicle 61. License Plate No. Full 62. State	63. Exp. Yr. 64. Plate Ty	pe 65. Value	
PR	Bartiat Line 66. Veh. Yr. 67. Make 68. Model	69. Style	70. VIN.	
	71. Color(s) 72. Towed By: To:		73. Vehicle Notes	
 I	74.	······································	<u> </u>	
ΥË				
NARRATIVE				
-				
ЧE	75. Inquiries (Check all that apply) DMV Want/Warrant Scofflaw	flessage No. 77. Complaina	nt Signature	B use cover
ADMINISTRATIVE	Crim. History Stolen Property Cother 78. Reporting Officer Signature (Include Rank) 79. ID No.	o. 80. Supervisor	s Signature (Include Rank)	81. ID No. 85. 2 Page
ADMIN	82. Status Open Closed (if Closed, check box below) Unfounded	Uictim Refused to Coop.	Arrest 83. Status Date Declin Unk.	84. Notified/TOT <u>3</u> Pages

	-	1. Agency 2. Division/f EAST HAMPTON TOWN POLICE EHTPE 7. Report Day 8. Date 9. Report Time Sun 08 26 12 1724 16. Incident Type ACCIDENT PLANE 11 11 11 19. Incident Address (Street No., Street Name, Bildg. No., Apt. N 200 DANIELS HOLE RD 22. OFF. NO. LAW SECTION SUB CL 1 2 3 1 12 1	Converse Incide Occurred On/From: 10. Day Sun 17. Business Name 17. Business Name Interviewed CAT Dec Interviewed PR = Person Date of Birth STREE 1600	08 26	T N 12 20. Ci EAS Witness ME, BL T AV	12. Time Occurre 12. Time Occurre 1724 To: 18. Weapon(s) Its. State, Zip (□ C ST HAMPTON, I NAME OF OFFENSE NI = Not Interviewed DG. NO., APT. NO., CI (E, WESTBU)	VI = Victim 26. TY, STATE, ZIP	4. Date 08 28 1. Location Code 2252 CTS 23. 24. Victim also compl L590	6. Incident No. 361-12 EHT-EV-12228-1 15. Time 12 1155 No. of Victims 2 No. of Suspects almant Y X N
		OT5 SMITH, COURTNEY	ace	31. Ethnic		,, NY	seidence Statue		
MITON			hite 🔲 Black 🛄 Other Jian 🛄 Asian 🛄 Unk.	Hispanic 🗆	Jnk. [Yes Re	sidence Status sident	st 🗍 Student	C Other
SUSPECT	SUNUARKES ED FERSON	35. Type/No. 36. Name (Last, First, Middle) 39. Address (Street No., Street Name, Bidg. No., Apt. No., City, S 42. Date of Birth 43. Age 44. Sex 45. Re ↓ M F ↓ Wh ↓ U ↓ U 49. Height 50. Weight 51. Hair 52. Eyes 57. Scars/Marks/Tattoos (Describe)	37. Alias, State, Zip))	/Nickname/Maiden f 46. Ethnic Hispanic Non-Hispan 54. Build	40. F		41. Social : ome /ork 48. C	Drugs I Mental Mco I Inj / III Security No. Decupation	Dis I Unk. App Norm
 ≻		59. Victim or Property Property Quantity/ Suspect No. Status Type Measure	Make or Drug Type		Serial N	36 2 1988 (1, 2, 4) (2, 10) (1, 10) (Descriptic	bn	Value
PROPERI		60. Vehicle 61. License Plate No. Full T Status Partial	62. State 63. E	Exp. Yr. 64, Pl	ite Type	65. Value	·····		
		66. Veh. Yr. 67. Make 68. Mo 71. Color(s) 72. Towed By: 70:	del 69). Style	7	70. VIN. 73. Vehicle Notes			
NARRATIVE		74.							
TIVE	7	75. Inquiries (Check all that apply) ☐ DMV Want/Warrant Scofflaw ☐ Crim. History Stolen Property Other	76. NYSPIN Message N	io. 77. Comp	lainant \$	Signature			B use cover sheat 85.
ADMINISTRATIVE	7	8. Reporting Officer Signature (Include Rank)	79. ID No.	80. Supe	visor's S	Signature (Include Rant	()	81, ID No.	 Page
ADMI	8 L	2. Status COpen LClosed (if Closed, check box below)	Unfounded DiVictim dy DArrest - Juv DiC	Refused to Coop. Offender Dead	A 🗌 A		itus Date	84. Notified/TC	DT Of Bages

EAST HAMPTON TOWN POLICE

Record Agency: EAST HAMPTON TOWN POLICE

Event Report

		Event Info	
· .		Basic Info	
ase Folder No.:		Event No.:	EHT-EV-7728-12
vent Date:	07/02/2012 04:09 PM	Event Disposition:	Closed Via CAD
reated By:	,	Is Juvenile:	
esk Officer:	LAMBERT, THOMAS	Desk Officer Rank:	SERGEANT
esk Officer Serial No.:	20161	Desk Officer Shield No.:	423
eceived Via:	EHFD	Event Type:	ACCIDENT PLANE
riority:	PRIORITY 1	Received Date:	07/02/2012 04:09 PM
Dispatch Date:	07/02/2012 04:10 PM	Completed Date:	07/02/2012 04:30 PM
tart Time: 04:21 PM	End Time: 04:30 PM	Total Time:	0:09
		Location	
Organization Name:			
Address:	200 DANIELS HOLE RD WAINSCOTT,	NY 11975	
ity/Town/Village:	TOWN	Nearest Cross Street:	INDUSTRIAL RD
/ap:		Grid:	
atitude:	40.9622	Longitude:	-72.247559
SF:		Sector:	5
Precinct:	CENTRAL - HEADQUARTERS	Post:	995
ocation Code:		County:	
		Community:	
Premise:		Jurisdiction:	
Coverage Area:		Between: INDUSTRIAL	RD And: WAINSCOTT NW RD
Common Place Name:	EAST HAMPTON AIRPORT	1. Officer	
Name:	THOMAS LAMBERT	Last Rank:	SERGEANT
Serial No.:	20161	Shield No.:	423
		2. Officer	
Name:	NATHAN P OSBORN	Last Rank:	Police Officer
Serial No.:	20215	Shield No.:	215
- ,		3. Officer	
Name:	JOSEPH P KEARNEY	Last Rank:	SERGEANT
Serial No.:	20127	Shield No.:	425
		4. Officer	
Name:	DAVID M ORLANDO	Last Rank:	Police Officer
	20203	Shield No.:	159

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EHT-EV-7728-12

			1. Unit	
Unit Name:	990	Primary	Description:	Patrol Sergeant
Unit Type:			Department/Agency:	EAST HAMPTON TOWN POLICE
			nit History	在"接口",已经是自己正确的问题。
Unit Status:	Dispatch		Status Date/Time:	7/2/2012 4:10:34 PM
Location:			Post:	990
Equipment:			Comment:	
Unit Status:	Freed		Status Date/Time:	7/2/2012 4:10:40 PM
Location:			Post:	990
Equipment:			Comment:	
Unit Status:	Dispatch		Status Date/Time:	7/2/2012 4:10:41 PM
Location:			Post:	990
Equipment:			Comment:	
Unit Status:	ENROUTE		Status Date/Time;	7/2/2012 4:10:47 PM
Location:			Post:	990
Equipment:			Comment:	
Unit Status:	Freed		Status Date/Time:	7/2/2012 4:21:30 PM
Location:			Post:	990
Equipment:			Comment:	
			2. Unit	
Unit Name:	995	Backup	Description:	Patrol
Unit Type:			Department/Agency:	EAST HAMPTON TOWN POLICE
		U	nit History	a a secondaria da companya br>Deservativa da companya da c
Unit Status:	Dispatch		Status Date/Time:	7/2/2012 4:10:42 PM
Location:			Post:	995
Equipment:			Comment:	
Unit Status:	ENROUTE		Status Date/Time:	7/2/2012 4:10:50 PM
Location:			Post:	995
Equipment:			Comment:	
Unit Status:	Arrive		Status Date/Time:	7/2/2012 4:12:36 PM
Location:	200 DANIELS HOLE RD		Post:	995
Equipment:			Comment:	
Unit Status:	Cleared		Status Date/Time:	7/2/2012 4:30:28 PM
Location:			Post:	995
Equipment:			Comment:	

Printed On: 8/12/2020 1:38:13 PM EHT-EV-7

[•] EHT-EV-7728-12

			3. Unit	
Unit Name:	980	Backup	Description:	DESK SGT
Unit Type:			Department/Agency:	EAST HAMPTON TOWN POLICE
			Unit History	
Unit Status:	Dispatch		Status Date/Time:	7/2/2012 4:14:34 PM
Location:			Post:	980
Equipment:	1		Comment:	
Unit Status:	Arrive		Status Date/Time:	7/2/2012 4:21:33 PM
Location:	200 DANIELS HOLE RE	0	Post:	980
Equipment:			Comment:	
Unit Status:	Arrive		Status Date/Time:	7/2/2012 4:21:34 PM
Location:	200 DANIELS HOLE RE)	Post:	980
Equipment:	6	4	Comment:	SGT KEARNEY CONFIRMS PLANE LANDED SAFELY AT EAST HAMPTON AIRPORT
Unit Status:	Cleared		Status Date/Time:	7/2/2012 4:30:30 PM
_ocation:			Post:	980
Equipment:			Comment:	
			4. Unit	
Jnit Name:	981	Backup	Description:	Patrol
Jnit Type:			Department/Agency:	EAST HAMPTON TOWN POLICE
	$(\tilde{\partial}_{1}, \sigma_{1}, \sigma_{2}, \sigma_{3}, \sigma_{$	Ĺ	Init History	
Jnit Status:	Dispatch		Status Date/Time:	7/2/2012 4:15:34 PM
ocation:			Post:	981
Equipment:			Comment:	
Jnit Status:	ENROUTE		Status Date/Time:	7/2/2012 4:15:43 PM
ocation:			Post:	981
quipment:			Comment:	
Jnit Status:	Freed		Status Date/Time:	7/2/2012 4:21:52 PM
ocation:			Post:	981
quipment:			Comment:	
		E	vent Caller	
		COLOR PROPERTY AND PROPERTY AND PROVIDENT AND ADDRESS OF ADDRESS O	Basic Info	
Jame:	EHFD,		Restrict Print:	n nander en erstellenen en en erstellen Grader en erstellen erstellen erstellen erstellen erstellen erstellen e
Gender:	X NOT APPLICABLE		Date of Birth:	
SN:				
			Features	

Height:		Eye Color:		
		Address		
Address Type:	HOME	Description:	 A second state and a second state on the weat weat weat second state (0) in the state (0). 	and and sold of \$2555,5455
Address:	1 CEDAR ST EAST HAMPTON, NY 11937			
✓ Current:				
		Phone		
Phone Type:	Emergency	Description:	FIRE	
Phone Number:	(631) 324-6868			
✓ Current:				

POTTEND OF ADVIDUATION FOR ADVIDUATION ADVID		
		Licenses
		1. Person
		Basic Info
Name:	FAULKNER, JAMESON S	Role:
Gender:	M MALE	Date of Birth: 4/28/1985
SSN:	1	Restrict Print:
		Features
Height:		Eye Color:
		Address
Address Type:	НОМЕ	Description:
Address:	168 WESTBROOK RD ESSEX, CT 06426	
✓ Current:		
		Phone
Phone Type:	Cell	Description:
Phone Number:	(860) 810-0193	
✓ Current:		

Licenses 2. Person **Basic Info** Name: SULLIVAN, RILEY S Role: Gender: M MALE Date of Birth: 5/2/1987 SSN: **Restrict Print:** Features Height: 6 ft. Eye Color: HAZ Address Address Type: HOME Description: Address: **17 FREDERICKA LN** EHT-EV-7728-12 Printed On: 8/12/2020 1:38:13 PM Page 4 of 5

EAST HAMPTON, NY 11937-2633

✓ Current:		
	and the second second	Phone Phone
Phone Type:	Office	Description:
Phone Number:	(631) 335-2223	
✓ Current:		
e na suad server i la		Licenses
		Narrative
20146 7/2/2012 16: VILLAGE DISPATCH	12:42 REPORTS PLANE IS ON (*********************	GROUND SAFELY ******** ** *****
	t: SGT KEARNEY CONFI	RMS PLANE LANDED SAFELY AT EAST HAMPTON AIRPORT
	TES WHILE FLYING A LAI PTON AIR PORT WITH A	NCAIR COLUMBIA 350 REGISTRATION #N6501U HE HAD A MECHANICAL PROBLEM AND POSSIBLE EMERGENCY. MR. FAULKNER WAS ABLE TO CORRECT THE PROBLEM AND LAND
Approved By:		Date:

	1. Agency EAST HA	MPTON T	OWN PO	LICE EH	vision/Precinct	INCIDE	York Sta	10	. ori ¹⁴ 051	5200	4. 😿 Orig	- 1	ase No. T-CR-13	30-11 [.] ЕНТ
	7. Report Day	8. Date		9, Report	Time Occurred On/From:	10. Day 11	1. Date		12. Time	I To		14. Date		1
	Fri	08	05 11	203	0	Fri	08 05	5 11	203)	Fri	08	05	11
F	16. Incident Typ					usiness Name			18. Wei	apon(s)				
INCIDENT	ACCIDE					ST HAM	PTON A			ip (🗌 C 🕻	κ τ Πγ	1 21. Loca	tion Code	
INC	DANIEL	-		nie, olag. 116.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					DTT, NY				
	22. OFF. NO.	LAW	SECTION	SUB	CL CAT	DEG	ATT	}	NÁME C	F OFFENSE			CTS 23.	No. of Victim
;	1	LI	160	-	X V		0 LO	CAL INV	ESTIGA	TION PLA	NE CR	ASH	1	
	2												24.	No. of Suspe
	3 25 Person Tw	: 	n'ainant OT :	= Other Pi = I	Person Interviewed	PR ≃ Persor	Reporting V	VI = Witnes	s NI=Not	Interviewed	VI = Victim	26. Victim	also compli	ainant 🗍 Y 🔯
s	TYPE/NO			IDDLE, TITLE		1	T NO., STREE			•••			1	PHÓNE NO.
PERSONS												4470	t tosta	~:
PER	CO1	HEN	SHAW	', KEVII	N 08/31/19	72 2348	BEEC	HUVE	, vvAr	TAUG	Π, Ν Τ	11/9		
	WI1				12/26/19	963 15 W	20TH \$	ST .NE	EW YC	RK. NY	′ 1001	1-370	3	
CIAI														
ASSOCIATED	PI1	BR	UNDIG	SE, JIM	07/01/19	944 EAST HAN	IPTON AIRPOR	T MANAGER	200 DANIEL	SHOLE ROAD,	EAST HAMP	ION, NY 1193	17	
٩														
			20.4-	20 644	20 Bacc	!	31. Ethnic		32. Handid	an 33 Da	sidence Sta	atus 🗇 T	e.	
ICTIM	27. Date of Bir	ih i	28. Age	29. Sex			🛄 Hispanic		🗋 Yes	🗌 Re:	sident 🗌	Tourist		Other
2IC	34 Victim DID	receive inform	ation on Victin	n's Rights and	Services pursuant		tate Law		□ No □ NO		mmuter 🗌	Military L	Dimeless	
7	35. Type/No.						Nickname/Mai	den Name (Last, First, N	liddle)		arent Cond		l Dis 🗌 Un
ERSON						ļ					🔄 🗔 Impa	aired Alco	C) toj / III	
o_	39. Address (S	treet No., Stre	et Name, Bldg	g. No., Apt. No.	., City, State, Zip)}			40	. Phone No	П н П v	41. 5 Iome	Social Secu	ity No.	
	42. Date of Bir		43. Age	44. Sex	45. Race	<u> </u>	46. Ethnic	;	47. Skin			48. Occup	ation	
L S S S S S S S S S S S S S S S S S S S		•		⊡M⊡F ⊡U	; []] White []] 8I		Hispan	ic 🗀 Unk. Ispanic		m 🗔 Oark	l Unk.			
0				1. Hair 52	. Eyes 53. Gla							<u> </u>		
	49. Height	' 50. We	inght 57	1. HAN JZ			54. Build		55, Emplo	yer/School	5	6. Address		
SSING/A		;	·	1. HAN J2.		sses	Small		55. Emplo	yer/School	5	6. Address		
SUSPECT MISSING/ARRESTED	49. Height 57. Scars/Mar	;	·	ייייע דעמון ער יייייייייייייייייייייייייייייייייייי	Yes		🗌 Small		55. Emplo	yer/School	5	6. Address	·	
MISSING/A	57. Scars/Mar	ks/Taltoos (De	scribe)	Quantity/	Yes No	Contacts	Small	<u>n</u>	55. Emplo	yer/School		6. Address		Value
MISSING/A	57. Scars/Mar	ks/Taltoos (De	scribe)		Yes	Contacts	58. Misc.	<u>n</u>		yer/School		·		Vaue
2	57. Scars/Mar	ks/Taltoos (De	scribe)	Quantity/ Measure	Yes No	Contacts	58. Misc.	<u>n</u>				·		Value
2	57. Scars/Mar 59. Victim or Suspect No.	ks/Taltoos (De	scribe) Property Type	Quantity/ Measure	Make or,	Contacts	Codel	n Sene	<u>I No</u>			·		Value
2	57. Scars/Mar	Property Status e 61. Lic	scribe)	Quantity Measure	Yes No	Contacts	Codel	<u>n</u>	<u>I No</u>	ser/School		·		Value:
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2	57. Scars/Mar 59. Victim or Suspect No. 60. Vehicl Status 68. Veh, Y 71. Colori 74. 20198 FRONT OF	ks/Taltoos (De Property Status e 61. Lic r. 67. Ma s) 9/13/20 THE ATB	scribe) Property Type Cense Plato N ake 77 111 09:24	Quantity/ Measure o. 2. Towed By: To: 4:41 C/d N THE RU	Full [] 62, Stat Full [] 62,	Contacts	Small Mediur 58. Misc. Codel Exp. Yr. 3. Style	n Serie 64. Plate Ty LE LANIE R COLLJ	pe 1 70. VIN 73. Vehic DING AI LOING W	35, Value I. Ie Notes RPLANE # ITH THE	N34NY DEER.	SCIPTION	DEER RA	AN IN HIS TWC
×	57. Scars/Mar 59. Victim or Suspect No. 60. Vehicl Status 66. Veh. Y 71. Colori 74. 20198 FRONT OF DAUGHTER 62.1 – 405	ks/Taltoos (De Property Status e 61. Lic r. 67. Ma s) 9/13/20 THE AIR S WERE C	scribe) Property Type Type cense Plate N ske 7 Plane OI N BOARD D EDVI 15E1	Quantity/ Measure	Full [] 62, Stai Full [] 62, Stai fill [] 68, Model 0 HENSHAW E NWAY, HE LO NOBODY WE	Contacts	Small Mediur 58. Misc. 60001 Exp. Yr. 9. Style CHAT WH I I COL AFTED 2D. UNDED BPLANE CC	n 64. Plate Ty 64. Clate Ty LE LANI R COLLI RSIGNET OULD BE	Pe 70, VIN 73, Vehic DING AI DING AI CONTA S MOVED	35. Value I. I. I. I. I. I. I. I. I. I. I. I. I.	N34NY DEER. SPECTOR	THREE MUNICIPAL STR	DEER RA LY AND FO AT F FE FFA	AN IN HIS TWO
PROPERTY	57. Scars/Mar 59. Victim or Suspect No. 60. Vehicl Status 68. Veh. Y 71. Colori 74. 20198 FRONT OF DAUGHTER 631-495- REPRESEN TO PLCK	e 61. Lic r. 67. Ma s) 9/13/20 THE AIR S WERE C 8583 WHC ITATIVES UP ATRPI	scribe) Property Type Type Cense Plate N ske 111 09:2 PLANE 01 N BOARD ANE AND ANE AND	Quantity/ Measure o. 2. Towed By: To: 4:41 C// N THE RU AS WELL D TO SEC E OUT TO MOVE IT	Full [] 62. Stai artial [] 68. Model 68. Model 68. Model 0 HENSHAW E NWAY, HE LC , NOBODY WA URE COCKPTI MORROW TO] 0 OFF RUNWAN	Contacts	Small Mediur 58. Misc. 6069 Exp. Yr. 9. Style CLAFTEL CD. UNDEL RPLANE CC ATE. BRUD N SCENE	n 64. Plate Ty 64. Plate Ty 65. COLLI RSIGNET DULD BE NDIGE, DUE TC	pe 70, VIN 73, Vehic 73, Vehic DING AI IDING AI CONTA 2 MOVED AIRPOR D FUEL	35, Value I. I. I. I. I. I. I. I. I. I. I. I. I.	N34NY DEER. SPECTOR WAY AL ER CONT D ASSIS	THREE I W/I DAI DIPIN' SO STA' ACTED I T WITH	DEER RA LY AND TO AT F TE FFA KEITH C AIRPLA	AN IN HIS TWC TAA GRIMES C
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EAST HAMPTON TOWN POLICE

Record Agency: EAST HAMPTON TOWN POLICE

Event Report

Event Info

Basic Info

Case Folder No.:		Event No.:	EH-003625-01
Event Date:	05/18/2001 03:32 PM	Event Disposition:	Dispatched
Created By:		is Juvenile:	
Desk Officer:		Desk Officer Rank:	
Desk Officer Serial No.:	20037	Desk Officer Shield No.:	
Received Via:	*	Event Type:	ACCIDENT PLANE
Priority:		Received Date:	05/18/2001 03:32 PM
Dispatch Date:	05/18/2001 03:32 PM	Completed Date:	05/18/2001 04:01 PM
Start Time: 03:39 PM	End Time: 04:01 PM	Total Time:	0:22
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Organization Name:

Address:	DANIELS HOLE	ROAD EAST HAMPTON,	NY	
City/Town/Village:			Nearest Cross Street:	
Map:			Grid:	
Latitude:			Longitude:	
ISF:			Sector:	
Precinct:			Post:	*4
Location Code:			County:	
Premise:			Community:	
Coverage Area:			Jurisdiction:	
Common Place Name:			Between:	And:
		1.	Officer	
Name:			Last Rank:	
Serial No.:	20127		Shield No.:	
		2.	Officer	
Name:			Last Rank:	
Serial No.:	20124		Shield No.:	
			Unit	
Unit Name:	173	Primary	Description:	173
Unit Type:			Department/Agency:	EAST HAMPTON TOWN POLICE
andar An an		uni Uni	t History	
		Eve	nt Caller	
· · ·		Ba	sic Info	
Printed On: 8/12/20	020 1:51:46 PM	EH-003625-01		Page 1 of 2

Name:	EHFD,	Restrict Print:
Gender:		Date of Birth:
SSN:		
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Height:		Eye Color:
		ddress
Address Type:		Description:
Address:	1 CEDAR STREET EAST HAMPTON,	
Current:		
		Phone
Phone Type:	НОМЕ	Description:
Phone Number:	(631) 324-6868	
✓Current:		

Licenses

Narrative

REPORT OF A PLANE LANDING WITH ONE ENGINE SHUT DOWN AT THE EH AIRPORT. THE PLANE LANDED SAFELY WITHOUT INCIDENT. THE PLANE IS A 1974 BEACH BARON 58. THE PILOT, CURTIS DOUPE, 08/25/66, OF #2 BOW OARSMAN ROAD, EAST HAMPTON STATED HE SHUT DOWN THE RIGHT ENGINE AS A PRECAUTION TAIL NUMBER IS N625M.

EAST HAMPTON TOWN POLICE

Record Agency: EAST HAMPTON TOWN POLICE

Event Report

Event Info

Basic Info

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Case Folder No.:		Event No.:	EH-007629-00
Event Date:	08/15/2000 04:41 PM	Event Disposition:	Dispatched
Created By:	,	Is Juvenile:	
Desk Officer:		Desk Officer Rank:	
Desk Officer Serial No.:	20016	Desk Officer Shield No.	:
Received Via:	*POLICE OFFICER	Event Type:	ACCIDENT PLANE
Priority:		Received Date:	08/15/2000 04:41 PM
Dispatch Date:	08/15/2000 04:41 PM	Completed Date:	08/15/2000 05:14 PM
Start Time: 04:43 PM	End Time: 05:14 PM	Total Time:	0:31
		Location	
Organization Name:			
Address:	EAST HAMPTON AIRPORT EAST HAI	MPTON, NY	
City/Town/Village:		Nearest Cross Street:	
Мар:		Grid:	
Latitude:		Longitude:	
ISF:		Sector:	
Precinct:		Post:	*5
Location Code:		County:	
Premise:		Community:	
Coverage Area:		Jurisdiction:	
Common Place Name:		Between:	And:
		Officer	
Name:		Last Rank:	
Serial No.:	20064	Shield No.:	
		Unit	
Unit Name:	166 Primary	Description:	166
Unit Type:		Department/Agency:	EAST HAMPTON TOWN POLICE
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		Basic Info	

Restrict Print: Date of Birth:

Gender: SSN:

Printed On: 8/12/2020 1:52:41 PM EH-007629-00

EHFD, PSD LABROZZI

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Name:	PETER, LARKIN	Role:	
Gender:		Date of Birth:	1/19/1966
SSN:		Restrict Print:	
		Features	
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		2. Person	
	 An in the off offstate state of the state of	Basic Info	
Name:	MICHAEL, MANN	Role:	
Gender:		Date of Birth:	9/11/1964
SSN:		Restrict Print:	

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Height:

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P.O. MARKOWSKI REPORTS RESPONDING TO EAST HAMPTON AIRPORT WITH E.H.F.D. DUE TO AN AIRPLANE UNABLE TO LOCK LANDING GEAR- PILOT MICHAEL MANN 9-11-64 113 CHIPPY COLE RD MILFORD PA 18357 PH# 570-296-8330 WAS UNABLE TO GET GEAR LOCKED AND LAND SUCCESSFULLY. CO PILOT PETER LARKIN 1-19-66 109 CHIPPY COLE RD MILFORD, PA

		Agency		OWN PO		ivision/P רומדנ	ł		ork State	- 3. 0 - NY		200	4. 🔀 Orig	5. Case No		6. Incident No.	
		Report Day	8. Date		9. Report	Time	Occurred	10. Day 11, D			05152	200 Occurred	L	14. Date	<u> 19-00</u>	EH-005039-	-00
	V	Ved	06	21 00			On/From:	Wed 00	· ·	00	1059	To:	Wed	06 2	1 00	i	
	16	. Incident Typ	э Э				17, Busi	ness Name			18. Weapo	n(s)		<u> </u>			
INCIDENT	A	CCIDE	IT PLA	NE			EAS	T HAMPT	ON AIRP	ORT	1						
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						Service	s pursuant to I	New York State	Law 🗌 YES		NO						
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	1. Agency EAST HAMPTON TOWN POLICE EHT 7. Report Day 8. Date 9. Report Tim		REPORT NY 0515200		6. Incident No. 23-99 EH-006588-99			
INCIDENT	Thu 07 29 99 1600 16. Incident Type 16.00 16.	e Occurred 10. Day 11. Date On/From: Thu 07 17. Business Name		urred 13. Day 14. Date ^{b:} Thu 07 29	99 <u>1510</u>			
	ACCIDENT PLANE 19. Incident Address (Street No., Street Name, Bldg. No., Apr 200 DANIELS HOLE ROAD	EAST HAMPTO		C [] T [] V) 21. Location Cod	e			
	22. OFF. NO. LAW SECTION SUB CL 1 LI 160 - X 2 - X		NAME OF OFFER	PLANE CRASH 1	3. No. of Victims			
RSONS	2 24. No. of Suspects 3 25. Person Type: CO = Complainant OT = Other PI = Person Interviewed PR = Person Reporting WI = Wilness NI = Not Interviewed VI = Victim 26. Victim also complainant □Y ⊠ N							
	TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) OT1 RYAN, PATRICK, A		TREET NAME, BLDG. NO., APT. NO.	PDF 5	EPHONE NO.			
ASSOCIATED PERSONS	OT2 SUDIMICK, GERALD	····•••	SEVELT DRIVE ,SEYN					
ASSOC				1, A () 				
VICTIM	27. Date of Birth 28. Age 29. Sex 30	Race 31, El White Black Other His Indian Asian Unk. (C No.	panic 🖾 Unk. 🛄 Yes 👘 🕴 🛄	Residence Status Temp. Res Resident Tourist Student Commuter Military Homele:	Foreign Na1. □ Other ss □ Unk.			
SUSPECT MISSING/ARRESTED PERSON VI	34. Victim DID receive information on Victim's Rights and Sen			38. Apparent Condition				
	42. Date of Birth 43. Age i 44. Sex 45 ↓ M I → F 1 ↓ U L → F	Indian 🗌 Asian 👘 Unk, 📋 Ne	hnic 47. Skin ispanic Unk. Light Dai on-Hispanic Ott					
MISSING/	49. Height 50. Weight 51. Hair 52. Eyes 53. Glasses 54. Build 55. Employer/School 56. Address 57. Scars/Marks/Tattoos (Describe) 58. Misc. 58. Misc.							
	59. Victim or Property Quantity Suspect No. Status Type Measure	Make or Model	Serial No.	Description	Value			
7	99 0 0	208	D	DES NOT APPL	0			
PROPERT	60. Vehicle Status Partial		64. Plate Type 65. Value					
	68.	Model 69. Style	70. VIN.		·····			
	To:							
	74. CO, WHO IS THE MANAGER OF THE EAST HAMPTON AIRPORT REPORTS A MINOR INCIDENT OF AIRPLANE LANDING WITHOUT THE LANDING GEAR DOWN. PI WAS THE PILOT AND ONLY PERSON ABOARD THE CESSNA CARAVAN MODEL 208, REGISTRATION #N208L8. PI REPORTS THAT HE "DID EVERYTHING HE WAS SUPPOSED TO" AND DID NOT KNOW THERE WAS A PROBLEM UNTIL HE LANDED. THE PLANE REMAINED UPRIGHT AND SUSTAINED ONLY MINOR DAMAGE.							
NARRATIVE								
N								
ADMINISTRATIVE	75. Inquiries (Check all that apply)	76. NYSPIN Message No.	77. Complainant Signature		B use cover			
	DMV Want/Warrant Scofflaw Crim. History Stolen Property Other 78. Reporting Officer Signature (Include Rank)	79. ID No.	80. Supervisor's Signature (Include I	Rank) 81. ID No.	85. 1 Page			
ADMIN	82. Status Dopen Closed (if Closed, check box below) Unfounded Victim Refused to Coop. Arrest 83. Status Date 84. Notified/TOT Pros Declined Warrant Advised CBI Juv No Custody Arrest - Juv Offender Dead Extrad. Declin Junk.							

INCIDENT	1. Agency 2. Division/f EAST HAMPTON TOWN POLICE EHTPE 7. Report Day 8. Date 19. Report Time	New JOIK		Occurred 13. Day 14	5. Case No. EH-00504-9	6. Incident No. 9 EH-002169-99 15. Time			
	Fri 04 02 99 2318 16. Incident Type ACCIDENT PLANE	Fri 04 17. Business Name EAST HAMPTON		n(s)		9 2318			
	19. Incident Address (Street No., Street Name, Bldg. No., Apt. N DANIELS HOLE ROAD 22. OFF. NO. LAW SECTION SUB CL	····· ·	EAST HAM	PTON, NY	Location Code				
	1 LI 160 - X 3	└── ──	NAME OF C		1	of Victims			
RSONS	25. Person Type: CO = Complainant OT = Other PI = Person Interviewed PR = Person Reporting WI = Witness NI = Not Interviewed VI = Victim 26. Victim also complainant V 🗵 N								
	OT1 BRANDT, PHILIP, D	Date of Birth STREET NO., ST 04/28/1965 1668 32NE	STREET NAME, BLDG. NO., APT			<u>IE NO.</u>			
ASSOCIATED PERSONS	OT2 RAUCH, JULIUIS, B	08/20/1962 1668 32NE		· ·					
ASSOCI									
VICTIM		nite 📃 Black 💭 Other 🛄 Hisp	anic 🗍 Unk. 📋 Yes	33. Residence Status	it 🗌 Student 🛛 🗌	Other			
<u> </u>	34. Victim DID receive information on Victim's Rights and Services pursuant to New York State Law 🗍 YES 📋 NO								
SUSPECT SSING/ARRESTED PERSON	35. Type/No. 36. Name (Last, First, Middle) 37. Alias/Nickname/Maiden Name (Last, First, Middle) 38. Apparent Condition 39. Address (Street No., Street Name, Bldg. No., Apt. No., City, State, Zip)) 40. Phone No. 41. Social Security No. Home								
		nite 🗌 Black 🛄 Other 📋 His		Work 48. O	ccupation				
	49. Height 50. Weight 51. Hair 52. Eyes	53. Glasses 54. Bu	ild 55. Employer/S nall		ess				
MISS	57. Scars/Marks/Tatloos (Describe) 58. Misc.								
PROPERTY	59, Victim or Property Property Quantity Suspect No. Status Type Measure 00 0	Make or Drug Type Model	Serial No	Description DOES NOT APP		Value			
						·** · · · ·			
	60. Vehicle 61. License Plate No. Full [] Status Partial []	62. State 63. Exp, Yr.	64. Plate Type 65. V	alue	<u> </u>				
	백 56. Veh. Yr. 67. Make 68. Mo	odet 69. Style		· · ·					
	71. Color(s) 72. Towed By: To:	· · · · · · · · · · · · · · · · ·	73. Vehicle No	73. Vehicle Notes					
NARRATIVE	74. PI STATED THAT AS HE CAME IN FOR A LANDING AND LANDED "HARD" ON THE FRONT LANDING GEAR. THE FRONT GEAR SNAPPED OFF THE PLANE UPON LANDING, CAUSING THE NOSE PART OF THE PLANE TO DRAG ON THE ROADWAY. THE PROPELLER WAS ALSO BENT. FAA WAS NOTIFIED, BUT DECLINED TO RESPOND. EHFD CHIEFS TONY GANGA AND LESTER BAYLINSON RESPONDED TO INVESTIGATE. NO FUEL SPILLED FROM THE PLANE. BOTH THE PI AND THE OT, WHO WAS IN THE FRONT PASSENGER SEAT WERE UNINJURED. J.B. CLAFLIN-AIRPORT MANAGER ALSO RESPONDED TO THE SCENE. STEVE TUMA OF SOUND AIRCRAFT REMOVED THE PLANE. PLANE WAS A 1980 BEECHCRAFT, TAIL NUMBER- N67056 REGISTERED TO								
	TUMA OF SOUND AIRCRAFT REMOVED THE P JBR, LLC CORP. CHIEF SCOTT AND SUPE	LANE, PLANE WAS A RVISOR LESTER WERE I	1980 BEECHCRAFT, T NOTIFIED. ASSISTE	AIL NUMBER- N67 D AT THE SCENE)	056 REGISTER BY PO SARLO,	ED TO			
						B A			
ADMINISTRATIVE	75. Inquiries (Check all that apply) DMV Swant/Warrant Scofflaw Crim. History Stolen Property Other	76. NYSPIN Message No.	77, Complainant Signature	··· · <i>, ,</i>		use cover sheet			
	78. Reporting Officer Signature (Include Rank)	79. ID No.	80. Supervisor's Signature (Inc	lude Rank)	81. ID No.	Page			
ADMIN	82. Status Open Closed (if Closed, check box below)			83. Status Date	84. Notified/TOT	Pages			

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Z	35. Type/No.	36. Name (Las	st, First, Middle	9)			37. Alias/	Nicknami	e/Maiden Nar	ne (La	ast, First, Mide	dle)		rent Conditi red Drugs		IDis [.	Junk, J
PERSON													🗌 🗌 İmpair	red Alco	inj / Ill		
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ASSOCIATED PERSONS INCIDENT	Mon 08 31 98 1005 16. Incident Type ACCIDENT PLANE	New York State INCIDENT REPORT INCIDENT REPORT INCIDENT REPORT Sun 08 30 17. Business Name EAST HAMPTON All CAT DEG ATT V O LOC Brviewed PR = Person Reporting Wi ate of Birth STREET NO., STREET W04/1923 303 E W04/1948 123 MIDDLE H	RT NY 0515200 12. Time Occurred 98 1420 18. Weapon(s) 20. City, State, Zip (□ C □ EAST HAMPTON, NAME OF OFFENSE AL INVESTIGATION PLA	13. Day 14. Date Sun 08 30 1 08 30 1 08 30 1 08 30 NY 21. Location Code NY CTS 23. No NE CRASH 1 24. No 1= Victim 26. Victim also complain (, STATE, ZIP TELEPH 10022 00, NY 11937	ONE NO.
PERSON VICTIM	34. Victim DID receive information on Victim's Rights and Services pt 35. Type/No. 36. Name (Last, First, Middle) 39. Address (Street No., Street Name, Bldg, No., Apt. No., City, State 42. Date of Birth 43. Age 44. Sex 45. Race	Black Other Hispanic Asian Unk. Non-Hispanic Non-Hispani	nic 🚺 No 🔤 Com		Other Unk.
SUSPECT MISSING/ARRESTED	49. Height 50. Weight 51. Hair 52. Eyes 5 57. Scars/Marks/Tattoos (Describe) 59. Victim or Property Property Quantity/ Me Suspect No. Status Type Measure Dru	Black Other Hispanic Asian Unk. Non-Hisp 53. Glasses 54, Build Yes Contacts S64, Build Medium 58. Misc. ake or 19 Type Model	anic Other Other	56. Address	Value
PROPERTY	OO O 60. Vehicle Status 61. License Plate No. Full 6 66. Veh. Yr. 67. Make 68. Model 71. Color(s) 72. Towed By: To;		DOES Plate Type 65. Value 70. VIN. 70. VIN. 73. Vehicle Notes 73. Vehicle Notes		
NARRATIVE	74. Ryan states a Cessna 182RG Skylane, having landing gear down. Airport emplo Baron and his grandaughter got out of gas leak and possible fire. F.A.A. not not talk to authorities. Lt. Claflin, 1 T.O.T. Detecetive Division.	oyees attempted to no airplane and escaped ified and Hughes resp	tify pilot of proble without injury. E.H. onded. Baron left so	m before plane lande Fire Dept. on scene vene after accident	d. for and did ion
ADMINISTRATIVE	OMV U Want/Warrant L Scofflaw Crim, History Stoten Property Other 78. Reporting Officer Signature (Include Rank) 82. Status Open Closed (if Closed, check box below)	79. ID No. 80. Si			B sheet 85.
×	CI Pros Declined Warrant Advised CI CBI ' Juv No Custody DCJS-3205 (11/06) *FALSE STATEMENTS ARE PUNISHABLE AS				Pages

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INCIDENT		ACCIDEN					EAS	F HAM	IPTO	N AIRPO				· • · · · ·	<u> </u>	·		
			HOLE ROA		, Bidg. No	., Apt. No	•.)					, State, Zip (TLIANAC			21. Locati	on Code		
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		1. Agency 2. Division/Precir EAST HAMPTON TOWN POLICE EHTPD 7. Report Day 8. Date 9. Report Time OCCU	rred 10. Day 11. Date		12. Time Occur To:		5. Case No. EH-02002 4. Date	15. Time
		Sat 10, 11 97 1319 -	→ Sat 10 17. Business Name	11 97	1319	► Sat	10 11	97 1319
ENT		ACCIDENT PLANE	EAST HAMPTO	N AIRPORT	• • • •			
INCIDENT		19. Incident Address (Street No., Street Name, Bldg. No., Apt. No.) DANIELS HOLE ROAD			ty, State, Zip (🗌 C		1. Location Code	
			AT DEG ATT		NAME OF OFFENS		CTS 23. N	lo. of Victims
	-	1 LI 160 - X	V O	LOCAL INVE	STIGATION P	LANE CRASH	!	
		2					24. N	o, of Suspects
	╞	25. Person Type: CO = Complainant OT = Other PI = Person Inter	viewed PR = Person Report	ing WI=Wilness	NI = Not Interviewed	1 VI = Victim 26.	Victim also complai	nant 🗋 Y 🔀 N
SNS	-	TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Day	te of Birth STREET NO., S	STREET NAME, BL	DG, NO., APT. NO., (CITY , STATE, ZIP		IONE NO.
ASSOCIATED PERSONS		······································	14/1954 61 JOHN					
ATE		OT2 CLAFLIN, JOHN, B 02/	08/1975 18 CHUF	RCH LANE	E,EAST HA	AMPTON,	NY	
ASSOC		OT3 MELCER, RAY		F.	A.A. ,,			
		OT4 KONATICH, NICHOLAS, J 08/	20/1974 18 PLYMO	UTH ROAD	,PT WASHING	GTON, NY 1	1050	
WI	1			spanic 🗔 Unk. 🕻		Residence Status Resident [] Touri	Temp. Kes ri ist 🔲 Student	Oreign Nat.
VICTIM	3	34. Victim DID receive information on Victim's Rights and Services pu	,		<u> № [] (</u>] NO	Commuter D Milita	ary [] Homeless	Unk.
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D PERSON		39. Address (Street No., Street Name, Bidg. No., Apt. No., City, State,	Zip))	40. F		41. Social Home	Nico Inj / Ili Security No.	
SSING/ARRESTED	4	42. Date of Birth 43. Age 44. Sex 45. Race		lispanic 🗋 Unk. 🗌	47. Skin	L.J Unk.	Occupation	
NG/AI	4	the second s	3. Glasses 54. B		5. Employer/School	56. Add	dress	
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ERT	┝		2. State 63. Exp. Yr.	64. Plate Type	65. Value			
PROPERT	Ι.	Partial						
	10173	66. Veh. Yr. 67. Make 68. Model	69. Style		70, VIN.			
		71. Color(s) 72. Towed By: To:			3. Vehicle Notes			····· · - ······
	1	1 74. PO VIRGA REPORTS RESPONDING TO EAST INSTRUCTOR AND PILOT STUDENT WERE UNIN. AND SPRAYED FOAM UNDERNEATH THE AIR CR/	JURED. EH FD WAS AFT FOR FIRE PREA	ON THE SCE VENTION. PI	NE AND HAD T LOT INSTRUCT	HE PLANE SA	AFELY BOOST 5 J KONATIC	ED UP H STATED
IVE	i V	THAT IT WAS A LONG LANDING AND HE ATTEN TO FINAL REST. THE PLANE HAD A BENT PRO WITNESS/COMPLAINANT JOHN B CLAFLIN STAT AIRPORT MANAGER, SGT. FAULHABER SPOKE W	OP, TWO WHEELS BE FED HE CALLED THE	ROKE OFF, T E INCIDENT	HE UNDERCARR INTO THE F.A	IAGE WAS DA	AMAGED. SO NOTIFIED	
NARRATIVE	1	FAULHABER, SINCE THERE WAS NO FURTHER N SCENE. DET. DOANE WAS ON THE SCENE AND	NEED FOR POLICE A	ASSISTANCE,	PAT RYAN AI	RPORT MANAG	GER TOOK OV	ER THE
								B ▲
VTIVE	7	75. Inquiries (Check all that apply) DMV U Want/Warrant Scofflaw Crim. History Stolen Property Other	NYSPIN Message No.	77. Complainant	Signature			use cover sheet
13	7	78. Reporting Officer Signature (Include Rank)	79. ID No.	80. Supervisor's	Signature (Include Ri	ank)	81, ID No.	
ST								Page
ADMINISTRATIVE	8	32. Status Open Closed (if Closed, check box below)	nfounded CVictim Refuse	d to Coop.	Arrest 83.	Status Date	84. Notified/TO	of

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	7. Report Day 8. Date 9. Report Time Occurred 0//From:	0010	Occurred 13. Day 14.	EH-00973-97 EH-003906-97 Date 15. Time
Í	Sun 06 15 97 1213 Sun	06 15 97 1200	- hu	06 15 97 1213
L L	ACCIDENT PLANE 17. Business Name	18. Weap	on(s)	
NCIDENT	19. Incident Address (Street No., Street Name, Bidg. No., Apt. No.)		([] C [] T [] V) 21.	Location Code
≦	- DANIELS HOLE ROAD	EAST HAM		
	22. OFF. NO. LAW SECTION SUB CL CAT DEG	ATT NAME OF	OFFENSE	CTS 23. No. of Victims
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	3	·		24. No. of Suspects
	25. Person Type: CO = Complainant OT = Other PI = Person Interviewed PR = Person		The second secon	tim also complainant 🗍 Y 🔀 N
ONS	YPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Date of Birth STREE	NO., STREET NAME, BLDG. NO., AF	T. NO., CITY , STATE, ZIP	TELEPHONE NO.
PERS	꽃 OT1 LIPTON, JAMES, L 09/19/1926 159 F	. 80TH STREET ,NE	V YORK, NY 100)21 1
ASSOCIATED PERSONS	OT2 MONTERROSA, RICHARD, R 02/09/1969 4240 0	REEN TREE DRIVE ,SACR/	MENTO, CA 95823-1	941
So So	OT3 WIGGINS, BRUCE, M 10/23/1948 1295			
As			ARBOR, NY 119	
WIL	27. Date of Birth 28. Age 29. Sex 30. Race	31. Ethnic 32. Handicap	33. Residence Status	Temp. Res Foreign Nat.
VICTIM	34. Victim DID receive information on Victim's Rights and Services pursuant to New York S	Non-Hispanic 🗔 No		Gildent Other Homeless C. Unk.
z		ite LawYES LNO	le) <u>38</u> . Apparent Co	ndition
RSO	35. TyperNo. 36. Name (Last, First, Middle) 37. Alias/i 39. Address (Street No., Street Name, Bldg. No., Apt. No., City, State, Zip))			gs ☐ Mental Dis ☐ Unk. > ☐ Inj / III ☐ App Norm
		40. Phone No.	41. Social Se	curity No.
SUSPECT MISSING/ARRESTED	20 42. Date of Birth 43. Age 44. Sex 45. Race → M F White Black Other	46. Ethnic 47. Skin	Work 48, Occ	cupation
SUS	M F White Black Other	🗌 Non-Hispanic 🔤 🛄 Medium i		
NG/	49. Height 50. Weight 51. Hair 52. Eyes 53. Glasses Yes Contacts	54. Build 55. Employer/	School 56. Addres	3S
MISS	57. Scars/Marks/Tattoos (Describe)	58. Misc.	<u> </u>	
	59. Victim or Property Property Quantity Make or			
	Suspect No. Status Type Measure Drug Type Measure	See State - descendent - State State Mandale (1994) - Anthe State Man	Description	Value
		DKEE 1J4FJ68S3SL61423	DOES NOT APPL	0
RT			BOLONOTATE	
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A A	66. Veh. Yr. 67. Make 68. Model 69.	0 Style 70, VIN.		······
	В В 66. Veh. Yr. 67. Маке 68. Model 69. 1995 JEEP CHEROKEE 41	i	8833SL614231	
	71. Color(s) 72. Towed By:	73. Vehicle N	bles	······································
	74. PO HATCH REPORTS CONTACTING P1, P2, P3 AT ABOVE 1/	L WHERE AN INCODUCTOR	DI AND ANDORA	
	ISTRUCK THE REAR WINDOW AND REAR DOOR UPRIGHT W/ITS	LEFT WING TIP. THE PLA	ME ODEDATED BV TH	JE OFFICENT NEAVE
	PI AND CO-PILOTED BY INSTRUCTOR P2 WAS TAXIING OUT LINE WHEN COLLISION OCCURRED. ABOVE VEHICLE WAS PAR	KED ILLEGALLY ON THE R	DGE OF THE TAVE &	
Ä	WAS NAVIGATING PAST PARKED PLANES ON RIGHT SIDE NOT	EXPECTING VEHICLE TO BROKEN OUT DAMAGE TO	BE LOCATED AT ITS	S POSITION
NARRATIVE	COMMISSION. TOWN ORDINANCE ISSUED TO P3 WHO PARKED P2,PILOT CERT #567250347.	VEHICLE AT ITS LOCATIO	N. P1, PILOT CERT	386142928,
NAR				
				B A
۶	75. Inquiries (Check all that apply) DMV Want/Warrant Scotflaw	77. Complainant Signature		use cover T
RAT	Crim. History Stolen Property Other 78. Reporting Officer Signature (Include Rank) 79. ID No.	80. Supervisor's Signature (Inc	iude Rank)	85. 81. ID No.
ADMINISTRATIVE			······	Page
No.	82. Status			84. Notified/TOT
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15		16. Incident Ty	pe					usiness N		_	··	18. Weap	on(s)						
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VICTIM	-		 		i JM JF IJU	Ind	lian 🗌 Asia	n Li U	nk. 🖂 N	on-Hispani		LJ Yes	Resi	dent 🗐 1 muter 🗔 N	fourist L	Student	િંગ	ler	
	1.	34. Victim DID				Service	s pursuant lo					□ NO							
RSON	3	35. Type/No.	36. Name (La	asi, First, Midd	le)			37. A	lias/Nickna	ne/Maiden	Name (L	ast, First, Mide	ile)	38. Appar	ed Drugs	🗌 Menta	(Dis 🗆	Unk,	
PER	3	39. Address (S	reet No., Stre	et Name, Bldg	. No., Apt. No.	, City, S	tate, Zip))		·		40.	Phone No.		41. So	ed Alco cial Secu	Inj / III rity No.	L. J App N	lorm	
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SI	4	19. Height	50. Wei	ight 51		L : Ind Eyes	ian [] Asiar 53. Glasse			Von-Hispan Build		55, Employer/			Address	···			
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ADMINISTRATIVE	1.1	DMV Crim. History	Want/V Stolen		Scofflaw Other					1		. •						sheet 85.	
STRA	78	8. Reporting OI	ficer Signature	e (Include Ran	k)		79. ID	No.		80. Supe	rvisor's	Signature (Inc	lude Rank)	··	81	. ID No.		11	
MINI	01	Chatura : 10	inon Cloi-	ad /// Ota				1.7		<u> </u>								Page	e
Ā	82	2. Status 🔄 C ' Pros Decline	vpen !∷Clos ol¦ Warrant/	ed (if Closed) Advised Cl	cneck box bel Bl Juv N	ow) I o Custo	⊺Unfounded dy Í ÍArresi	u…⊥Vic t-Juv	tim Refuse	to Coop. Dead	، لــــ xtrad. C	Arrest Jeclin 🛄 Unk	83. Statu	is Date	84	. Notified/T	στ	<u>2</u> Page	15
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	1. Agency 2. Division/Precinct EAST HAMPTON TOWN POLICE EHTPD	New York State	3. ORI	4. Orig 5. Case No.	6. Incident No.
	7. Report Day 8. Date 9. Report Time Occurred	10. Day 11. Date	NY 0515200 12. Time Occurred		7-95 EH-007067-95
1	Mon 09 04 95 1601 ^{On/From:}			13. Day 14. Date Mon 09 04	^{15. Time} 95 1824
5		siness Name	18. Weapon(s)		00 1024
NCIDENT	19. Incident Address (Street No., Street Name, Bldg. No., Apt. No.)	EAN WINGS			
	EAST HAMPTON AIRPORT			T V) 21. Location Code	
	22. OFF. NO. LAW SECTION SUB CL CAT		NAME OF OFFENSE		No. of Victims
	1			23.1	to or victims
	2			24. ١	Vo. of Suspects
-	3 25. Person Type: CO = Complainant OT = Other PL = Person Integriguent	PR - Borner Repeting Mile Mile			
0	25. Person Type: CO = Complainant OT = Other PI = Person Interviewed TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Date of Birt				
ASSOCIATED PERSONS			··· · · · · · · · · · · · · · · · · ·		HONE NO.
l H	OT5 GRAND-JEAN, MICHAEL 12/29/198	9 32 GROVE STRE	ET ,NEW YOR	K, NY 10014	
10	OT6 WATTS, JENNIFER 07/01/196	32 GROVE STRE			
M			ET, NEW TOR	K, NY 10014	-
 					· •
E	27. Date of Birth 28. Age 29. Sex 30. Race 	C Other Hispanic Unk.	32. Handicap 33. Res	idence Status 🔲 Temp. Res Fo dent 🛄 Tourist 🛄 Student	
VICTIM	34. Victim DID receive information on Victim's Rights and Services pursuant to	Unk. Don-Hispanic	No Com	muter I Military I Homeless	Unk.
	35. Type/No. : 36. Name (Last, First, Middle)	New York State Law YES 37. Alias/Nickname/Maiden Name	(Last First Middle)	38. Apparent Condition	
PERSON			(Last, First, Middle)	Impaired Drugs I Mental E	Dis Dunk.
E	39. Address (Street No., Street Name, Bldg. No., Apt. No., City, State, Zip))	4	0. Phone No.	41. Social Security No.	
	42. Date of Birth 43. Age 44. Sex 45. Race		Ho Wa	ne rk	
USP	M G F White G Black	46. Ethnic		48. Occupation	
GAF		s 54. Build	55. Employer/School	56. Address	
SUSPECT MISSING/ARRESTED	. Yes	Contacts C Small C Large		DU. Address	
MIS	57. Scars/Marks/Tattoos (Describe)	58. Misc.	-k	······································	
	59. Victim or Property Property Quantity/ Make or	The coll one field mean at the C. S. A. Demovier in			
	Suspect No. Status Type Measure Drug Type	Model	al No	Description	Value
RT					
PROPER	60. Vehicle 61. License Plate No. Full [] 62. State	63. Exp. Yr. 64. Plate Ty	pe 65. Value		
PR	Partial 66. Veh. Yr. 67. Make68. Model				
	86. Veh. Yr. 67. Make 68. Model	69. Style	: 70. VIN.		
I	71. Color(s) 72. Towed By:		73. Vehicle Notes		
	To:	· · · · · · · · · · · · · · · · · · ·			
	74. THE PILOT AND ALL PASSENGERS EXITED THE A NOTIFIED BY DET. DOANE AND PAT RYAN THE AIRP	IRCRAFT SAFELY WITH	UT ANY APPARENT	INJURIES. THE FAA.	WAS
	CONTRACT THE INVESTIGATION OF THIS INCLUENT.	FOR FURTHER INFO 9	ΓΓ ΟΜΛΟΝ ΟΦλΦΕΝ	ENDO OF BIOUNDE I OF	
	STATES THAT GRENIER WAS PREOCCUPIED WITH THE	LANDING GEAR AND WA	T IS SUBSTANTIA	IV DUD ONVO DVODDO	TRACE AND AND ADDRESS OF ADDRESS OF ADDRESS ADDRES
۲ <u>۲</u>	TIME. HE ALSO THINKS THAT SHE WAS LANDING AT	TOO HIGH A RATE OF	SPEED.	I'II IIII KOUNAT TAMI	OF THE
NARRATIVE					
NAF					
					TOTAL
ň	75. Inquiries (Check all that apply) 76. NYSPIN DMV WantWarrant Scofflaw	Message No. 77. Complaina	nt Signature		B use cover
ATIV	Crim. History				85.
STR	78. Reporting Officer Signature (Include Rank) 79. ID N	lo. 80. Supervisor	's Signalure (Include Rank)	81. ID No.	2
ADMINISTRATIVE	82. Status Open Closed (if Closed, check box below) Unfounded		1	- P-4	Page of
P	B2 Status Open Closed (if Closed, check box below) Unfounded Pros Declined Warrant Advised CBI U.v No Custody Arrest	Victim Refused to Coop.	Arrest 83. Statu	s Date 84. Notified/TOT	2 Pages
		· · · · · · · · · · · · · · · · · · ·	<u>i</u>		
	DCJS-3205 (11/06) 'FALSE STATEMENTS ARE PUNISHABLE AS A CRIME.	PURSUANT TO THE NEW YORK S	TATE PENAL LAW.		

S A CRIME, PURSUANT TO THE NEW YORK STATE PENAL LAW.	- 11		ļ	Ш	I	
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EAST HAMPTON TOWN POLICE

Record Agency: EAST HAMPTON TOWN POLICE

Event Report

			Event Info	
			Basic Info	
Case Folder No.:			Event No.: EH-006486-95	
Event Date:	08/21/1995 02:19 PM		Event Disposition: Unable to locate	
Created By:	,		Is Juvenile:	
Desk Officer:			Desk Officer Rank:	
Desk Officer Serial No.:	20015		Desk Officer Shield No.:	
Received Via:	*		Event Type: ACCIDENT PLANE	
Priority:			Received Date: 08/21/1995 02:19 PM	
Dispatch Date:	08/21/1995 02:19 PM		Completed Date: 08/21/1995 02:38 PM	
Start Time: 02:25 PM	End Time: 0	2:38 PM	Total Time: 0:13	
	· · · · · · · · · · · · · · · · · · ·		Location	
Organization Name:				
Address:	DANIELS HOLE RD, WA	AINSCOTT	, NY	
City/Town/Village:			Nearest Cross Street:	
Мар:			Grid:	
Latitude:			Longitude:	
ISF:			Sector:	
Precinct:			Post: *4	
Location Code:			County:	
Premise:			Community:	
Coverage Area:			Jurisdiction:	
Common Place Name:			Between: And:	
			1. Officer	
Name:			Last Rank:	
Serial No.:	20065		Shield No.:	
			2. Officer	
Name:			Last Rank:	
Serial No.:	20076		Shield No.:	
Unit Name:	994	Primary	Unit Description: 994	
Unit Type:	-	<i></i>	Department/Agency: EAST HAMPTON TOWN POLICE	
* •			Init History	
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			Basic Info	na gyr
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EH-006486-95

Name:	EH AIRPORT,	Restrict Print:
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Height:		Eye Color:
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Address Type:		Description:
Address:	DANIELS HOLE RD WAINSCOTT, NY 11937	
✓ Current:		
'w.	Ph	one
Phone Type:		Description:
Phone Number:		
Current:		

		Licenses
		Person
		Basic Info
Name:	DOMINICK, DERANIERI	Role:
Gender:		Date of Birth: 5/23/1942
SSN:		Restrict Print:
		Features
Height:		Eye Color:
		Address mail and the state of t
Address Type:		Description:
Address:		
Current:		
		Phone Phone
Phone Type:	HOME	Description:
Phone Number:		
√ Current:		

Licenses

Narrative

P.O. SCHAEFER RESPONDED TO I/L REFERENCE TO A PLANE THAT DOMINICK DERANIERI WAS FLYING HAD ENGINE TROUBLE AND WENT OFF RUNWAY. NOBODY WAS INJURED NOR WAS THE PLANE DAMAGED. THE PLANE WAS A RENTAL PLANE(CHEROKEE WARRIOR/SINGLE PROPELLER/SERIAL# N81869) AIRPORT PERSONNEL WILL TAKE CARE OF THIS MATTER.

Page 2 of 3



		1. Agency 2. Division/Prec EAST HAMPTON TOWN POLICE EHTPD 7. Report Day 8. Date 9. Report Time Qcc.	INCIDENT R	EPORT NY	0515200 2. Time Occurred	Supp E		6. Incident No. 3 EH-008685-93
	ĺ	Fri 12 03 93 0845 -	-rom: → Tue 11	a a b b a		13. Day 14. Da Tue 11	23 9	15. Time 3 1 <u>100</u>
	INCIDENT		17. Business Name EHAIRPORT	1	8. Weapon(s)			
		19. Incident Address (Street No., Street Name, Bldg. No., Apt. No.) DANIELS HOLE RD			tate, Zip (📋 C 📋		ation Code	
			CAT DEG ATT	-	IPTON, NY 119 AME OF OFFENSE	···	CTS 23. No. of	Victime
		1 LI 160 - X	V O L	OCAL INVEST			1	vicums
		3			- <u> </u>		24. No, of	
	,	25. Person Type: CO = Complainant OT = Other PI = Person Inter TYPE/NO NAME (LAST, FIRST, MIDDLE, TITLE) Da	viewed PR = Person Reporting	y WI≃Witness NI:	= Not interviewed VI	I = Victim 26. Victim	also complainant	
1000				REET NAME, BLDG.			TELEPHONE	NO.
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1ATE		OT2 DINIZIO, DOUGLAS, J 102/	24/1963 16 SQUAW	ROAD ,EAS		N, NY 1193	7	
ASSOCIATED DEDECANS		OT3 ALPERT, SEYMOUR	ONE PAR				•••	
	•						T.	
		27. Date of Birth 28. Age 29. Sex 30. Race	31. Ethni		andicap 33. Resid	lence Status	mp Res - Foreign	Nat
MITTIN		4. Victim OID receive information on Victim's Rights and Services pur	Asian Unk Non-H		es Comm	ent 🗌 Tourist 🔲 1uter 🗌 Military 🗌	Student 10	ther
		5. Type/No. 36. Name (Last, First, Middle)	37. Alias/Nickname/M	YES NC	rst Middle)	38. Apparent Condit	ion	
		9. Address (Street No., Street Name, Bldg. No., Apt. No., City, State,	Zio))	40. Phone		Impaired Drugs	🗆 İnj / III 🗀 App	Unk. Norm
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SUSPI		M F White		anic 🗆 Unk. 📋 Lig	kin pht 🗌 Dark 🗔	48, Occupa	tion	
	4		Glasses 54. Build		adlum 🗌 Other nployer/School	56. Address		
MICC	n · ·	7. Scars/Marks/Tatloos (Describe)	No Media 58. Misc	um		<u> </u>		· •
		9. Victim or Property Property Quantity Mak	e or		And Mr. of Sciences 11			
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		71. Color(s) 72. Towed By: To:	· · · · · · · · · · · · · · · · · · ·	73. Ve	hicle Notes			
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NARRATIVE								
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2	gn.	Status Onen El Claradi et cu		······	·····			
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1	EAST HA	r -	FOWN PC	en de la service					REPORT	- N	00102		Supp		-0168	39-93	<u> </u>	07470-93
	7, Report Day Wed		06 93	9. Repo 3 12	7 9 P	Occurred On/From:	10. Day Wed	11. Date 10	06	93	12. Time 1238	Occurred To:	13. Day Wed	14. Date	06	02		Time
	16. Incident Ty		00 3.	<u>, 12</u>	<u> </u>	17. Bus	iness Nam			93	18. Weapor		weu	10	06	93	· _!	1238
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_	DANIEL		,						·	E . H	AMPTON,		937, NY					_
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	2	··		- j		+									24	. ND. OF 2	uspects	
<u> </u>	25, Person Ty	ре: СО = Сол	plainant OT	= Other PI =	Person	Interviewed	PR = Perso	n Repor	l ting Wi≃Wi	itnėss	NI = Not Inte	rvlewed -\	VI = Victim 2	6. Victim a	lso comp	lainant [YXN	
SN	TYPE/NO	NAME (L	AST, FIRST, M	NIDDLE, TITL	.E)	Date of Birth	STREE	T NO., 8	STREET NA	VE, BI	DG. NO., APT	NO., CIT	Y , STATE, ZI	P	TELE	PHONE	NO.	
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N	27. Date of Bir	lh	28. Age	29. Sex	30. R		k 🗌 Other	31.E	thnic spanic []] U	nk.	32. Handicap	33. Res	sidence Status ident [] To	i 🗋 Ter	np. Res	Foreign		
VICTIM				U	II. Inc	dian 🗍 Asian	Unk.		on-Hispanic		No		nmuter 🗌 Mi					~
	34, Victim DID		· · · · · - · - · · · · ·		d Service	es pursuant to	1						38. Appare	nt Conditie				
SON	35. Type/No.	30. Name (La	ası, Firsi, Midu	ne)			57. Alias	амсклап	ne/maiden Na	ime (L	ast, First, Middl	e)	Impaire	d Drugs	Menta	I Dis	Unk.	
PERSON	39. Address (S	treet No., Stre	et Name, Bidg	. No., Apt. N	o., City, S	State, Zip))	. I	1.4		40.	Phone No.			a Alco			Norm	
E												⊟ Ha ⊡ Wa	ome					
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ISSI	57. Scars/Marl	s/Talloos (De	scribe)	! .		L. No		· · · · · · · · · · · · · · · · · · ·	ledium Misc,			·-· - ·						
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	- 59, Victim or Süspect No.	Property Status	Property Type	Quantity/ Measure		Make or Drug Type	Ň	lodel		Serial	No.		Descri	ption		Va	lue ;	
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RA	78. Reporting (<u> </u>				79. ID	No.		80. Super	visor's	Signature (Inc	lude Rank	\$)	81.	ID No.		<u> </u>	1
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ADMINISTRATIVE	82. Status										Arrest		itus Date	84.	Notified/	τοτ	7_	1
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Imagery @2020 Maxar Technologies, New York GIS, USDA Farm Service Agency, Map data @2020 500 ft

Wainscott Sand and Gravel Site Groundwater Data



1\OFFICESHARE\SECTIONFOLDERS\WASTE MGM				

5	Canal and the second	Örspartformet af Gestrienstaattal Committeettaar	
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		LIL BUILD DAY DUTIES IN	and the second s		Contraction and state		11523	Perfluorooctane Sulfonic Acid (PFOS)	36.2	44.2	31.8
4					200 Sto 70 1		13.78	Perfluorooctanoic acid (PFOA)	39.6	23.5	14.3
		6.5	201		and the state of the state of the state of the state of the state of the state of the state of the state of the		10005	Total PFOA and PFOS	75.8	67.7	46.1
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and the second s	5 7 S		CTICATION CONTRACT	1-				0	1 1. 0 1		Contraction in the second state
Samp	le: WSG-GW4-5-0	WSG-GW4-15-0	WSG-GW4-25-0	Sample:	WSG-GW7-6-0	WSG-GW7-15-0					
Dat	te: 11/7/2019	11/6/2019	11/6/2019	Date:	11/5/2019	11/5/2019	Contraction of the	Sample:	WSG-GW8-19-0	WSG-GW8-29-0	WSG-GW8-39-0
Depth (f	t): 5	15	25	Depth (ft):	6	15		Date:	11/13/2019	11/13/2019	11/13/2019
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycir	ne 3.93 J	19.2 U	19.3 U	Perfluorobutanesulfonic Acid (PFBS)	0.69 J	2		Depth (ft):	19	29	39
Perfluorobutanesulfonic Acid (PFBS)	0.42 J	1.36 J	1.25 J	Perfluorodecanoic Acid (PFDA)	2.21	1.83 U		Perfluorobutanesulfonic Acid (PFBS)	1.11 J	0.89 J	1.36 J
Perfluorodecanoic Acid (PFDA)	2.49	1.92 U	1.93 U	Perfluoroheptanoic Acid (PFHpA)	5.1	0.54 J	and the second second	Perfluorodecanoic Acid (PFDA)	0.64 J	0.73 J	0.37 J
Perfluoroheptanoic Acid (PFHpA)	2.14	1.5 J	1.93 U	Perfluorohexanesulfonic Acid	7.84 B	29.9 B		Perfluoroheptanoic Acid (PFHpA)	3.69	2.11	1.64 J
Perfluorohexanesulfonic Acid	3.43 B	27 B	19.4 B	Perfluorohexanoic Acid (PFHxA)	4.55	1.29 J	10 m 1	Perfluorohexanesulfonic Acid	2.15 B	8.29 B	12.7 B
Perfluorohexanoic Acid (PFHxA)	2.82	2.69	1.93 U	Perfluorononanoic Acid (PFNA)	2.84	0.25 J		Perfluorohexanoic Acid (PFHxA)	4.48	3.64	2.4
Perfluorononanoic Acid (PFNA)	1.92 J	1.03 J	0.97 J	Perfluorotetradecanoic Acid (PFTeA)	0.34 BJ	1.83 U	a set of	Perfluorononanoic Acid (PFNA)	3.18	1.24 J	0.55 J
Perfluorooctane Sulfonic Acid (PFOS)	30.5	36.7	11.6	Perfluorooctane Sulfonic Acid (PFOS)	22.5	24	ALC: Y	Perfluorooctane Sulfonic Acid (PFOS)	50.5	10.9	9.14
Perfluorooctanoic acid (PFOA)	5.69	4.78	1.93 U	Perfluorooctanoic acid (PFOA)	13.4	2.41	ALC: NO.	Perfluorooctanoic acid (PFOA)	7.95	5.8	5.06
Total PFOA and PFOS	36.19	41.48	11.6	Total PFOA and PFOS	35.9	26.41	1251	Total PFOA and PFOS	58.45	16.7	14.2
Total PFAS	53.34	75.06	33.22	Total PFAS	59.47	60.39	A good a	Total PFAS	73.7	33.6	33.22
		* - A - 1	1212 613		A LE	Source: Esri, Digi	italGlobe,	, GeoEye, Earthstar Geographics, CN	IES/Airbus DS, USDA, U	SGS, AeroGRID, IGN, and	the GIS User Community

GS/GW6

GS/GW8

GS/GW7

Sample: Date:	WSG-GW5-8-0 11/6/2019	WSG-GW5-18-0 11/6/2019	WSG-GW5-28-0 11/6/2019
Depth (ft):	8	18	28
Perfluorobutanesulfonic Acid (PFBS)	4.26	2.31	2.69
Perfluorodecanoic Acid (PFDA)	0.33 J	0.33 J	0.35 J
Perfluoroheptanoic Acid (PFHpA)	22.3	7.76	9.45
Perfluorohexanesulfonic Acid	20.2 B	10 B	10.9 B
Perfluorohexanoic Acid (PFHxA)	28.8	12.6	15.9
Perfluorononanoic Acid (PFNA)	3.2	1.85 J	1.72 J
Perfluorotetradecanoic Acid (PFTeA)	1.92 U	0.31 BJ	1.9 U
Perfluorooctane Sulfonic Acid (PFOS)	29.2	27.8	37.8
Perfluorooctanoic acid (PFOA)	40.6	12.7	11.2
Total PFOA and PFOS	69.8	40.5	49
Total PFAS	148.89	75.66	90.01

Date: Depth (ft):	11/6/2019 8	11/6/2019 18	11/6/2019 28	
Sample:		WSG-GW5-18-0	WSG-GW5-28-0	
	() (Ek	4 (A 1)	S 4	1 Are
Total PFAS	313.05	391.97	787.41	
Total PFOA and PFOS	279.2	248	443	/
Perfluorooctanoic acid (PFOA)	41.2	118	200	
Perfluorooctane Sulfonic Acid (PFOS)	238	130	243	
Perfluorononanoic Acid (PFNA)	3.83	5.98	7.75	
Perfluoronexanoic Acid (PFHXA)	3.4	17.2	27.3	100

Sample: Date:	11/12/2019	WSG-GW9-16-0 11/12/2019	WSG-GW9-26-0 11/12/2019	
Depth (ft):		16	26	1
Perfluorobutanesulfonic Acid (PFBS)	0.84 J	3.59	7.1	100
Perfluorodecanoic Acid (PFDA)	1.13 J	0.7 J	0.56 J	and so its
Perfluoroheptanoic Acid (PFHpA)	2.85	15.5	27.7	6
Perfluorohexanesulfonic Acid	21.8 B	101 B	274 B	1
Perfluorohexanoic Acid (PFHxA)	3.4	17.2	27.3	
Perfluorononanoic Acid (PFNA)	3.83	5.98	7.75	
Perfluorooctane Sulfonic Acid (PFOS)	238	130	243	
Perfluorooctanoic acid (PFOA)	41.2	118	200	
Total PFOA and PFOS	279.2	248	443	
Total PFAS	313.05	391.97	787.41	

and the second second	1000	- Lines	
Sample: Date: Depth (ft):	WSG-GW9-6-0 11/12/2019	WSG-GW9-16-0 11/12/2019 16	WSG-GW9-26-0 11/12/2019 26
erfluorobutanesulfonic Acid (PFBS)	0.84 J	3.59	7.1
erfluorodecanoic Acid (PFDA)	1.13 J	0.7 J	0.56 J
erfluoroheptanoic Acid (PFHpA)	2.85	15.5	27.7
erfluorohexanesulfonic Acid	21.8 B	101 B	274 B
erfluorohexanoic Acid (PFHxA)	3.4	17.2	27.3
erfluorononanoic Acid (PFNA)	3.83	5.98	7.75
erfluorooctane Sulfonic Acid (PFOS)	238	130	243
erfluorooctanoic acid (PFOA)	41.2	118	200
Total PFOA and PFOS	279.2	248	443

Sample: Date:

Depth (ft):

Perfluorobutanesulfonic Acid (PFBS)

Perfluorodecanoic Acid (PFDA)

Perfluorohexanesulfonic Acid Perfluorohexanoic Acid (PFHxA)

Perfluorononanoic Acid (PFNA)

Perfluorooctanoic acid (PFOA) Total PFOA and PFOS

Total PFAS

Perfluoroundecanoic Acid (PFUnA)

Perfluorooctane Sulfonic Acid (PFOS)

Perfluoroheptanoic Acid (PFHpA)

WSG-GW1-9-0

11/14/2019

2.19

5.7 43.2

25 B

23.7

333

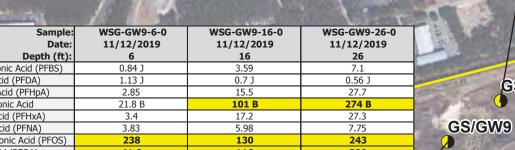
2.19

12.7

64.6 77.3

512.28

9



WSG-GW1-9-1 (DUP)

11/14/2019

2.19

5.53 41.7

24.4 B

24.7

343

1.89

12.4

62.9 75.3

518.71

WSG-GW1-19-0

11/14/2019

19

1.81 U

1.81 U

0.6 J

1.81 U

0.95 J

0.93 J

8.99

5.43

0.89 J

6.32

17.79

GS/GW1

ĢŚ/GW2

GS/GW3

GS/GW5

GS/GW4

WSG-GW1-29-0 11/14/2019 29	Sample: Date: Depth (ft):	WSG-GW2-9-0 11/8/2019 9	WSG-GW2-19-0 11/8/2019 19	WSG-GW2-29-0 11/8/2019 29	WSG-GW2-29-1 (DUP) 11/8/2019 29
14.6	Perfluorobutanesulfonic Acid (PFBS)	10.5	2.59	5.42	5.06
0.91 J	Perfluorodecanoic Acid (PFDA)	0.38 J	1.95 U	1.88 U	1.9 U
8.65	Perfluoroheptanoic Acid (PFHpA)	8.7	1.61 J	3.44	3.4
4 B	Perfluorohexanesulfonic Acid	229 B	32.5 B	50.1 B	50.4 B
56.8	Perfluorohexanoic Acid (PFHxA)	39.7	6.41	12.9	12.5
1.26 J	Perfluorononanoic Acid (PFNA)	15.5	4.8	13	12.9
1.83 U	Perfluorooctane Sulfonic Acid (PFOS)	84.6	37.9	52.1	52.1
6.27	Perfluorooctanoic acid (PFOA)	17.6	3.78	7.44	7.28
4.28	Total PFOA and PFOS	102.2	41.68	59.54	59.38
10.55	Total PFAS	405.98	89.59	144.4	143.64
96.77			- Hatelah		191



ALL MARKED CONTRACTOR

Probe Sampling Locations

Site Boundary

Notes:

1. Exceedances of the New York State PFAS Guidelines are shown in yellow. All detections are shown.

2. B qualifier indicates contamination was detected in the associated blank sample. 3. J qualifier indicates the result is estimated. 4. U qualifier indicates the result is non-detect; the result detection limit is shown. 5. Results are given in ng/l.

a survey of the second		5 5,				
3	Ai	nalyte		NYS 703.5 TOGS Class GA		
10.00	PFCs			ng/l		
CONTRACTOR OF	Perfluorohexanes	sulfonic Acid		100		
10.000	100					
ALC: NOT	100					
a family and	Perfluorooctane Sulfonic Acid (PFOS)					
10000	Perfluorooctanoio	erfluorooctanoic acid (PFOA)				
and the second second	Total PFOA a	nd PFOS		10		
CONTRACTOR OF	Total PFAS			500		
and a	A	0	Mile	s 0.1	_	
	1 11/00	01410 4 0 0				

Sample: Date:	11/7/2019	WSG-GW3-18-0 11/7/2019	WSG-GW3-28-0 11/7/2019
Depth (ft):	8	18	28
Perfluorobutanesulfonic Acid (PFBS)	4.15	4.35	3.8
Perfluoroheptanoic Acid (PFHpA)	3.29	0.99 J	0.25 J
Perfluorohexanesulfonic Acid	21.4 B	10.1 B	4.99 B
Perfluorohexanoic Acid (PFHxA)	6.68	2.81	1.89 U
Perfluorononanoic Acid (PFNA)	2.4	2.43	0.46 J
Perfluorotetradecanoic Acid (PFTeA)	1.9 U	0.35 J	1.89 U
Perfluorooctane Sulfonic Acid (PFOS)	33.6	17.5	2.79
Perfluorooctanoic acid (PFOA)	5.7	2.45	0.83 J
Total PFOA and PFOS	39.3	19.95	2.79
Total PFAS	77.22	40.98	13.12
	and the second		

		and the second se	The second secon
Sample: Date:		WSG-GW6-19-0 11/11/2019	WSG-GW6-29-0 11/11/2019
Depth (ft):	9	19	29
Perfluorobutanesulfonic Acid (PFBS)	3.84	2.79	2.93
Perfluorodecanoic Acid (PFDA)	0.53 J	0.65 J	1.87 U
Perfluoroheptanoic Acid (PFHpA)	12.9	8.65	6.64
Perfluorohexanesulfonic Acid	17.7 B	16.4 B	24.9 B
Perfluorohexanoic Acid (PFHxA)	21	14	12
Perfluorononanoic Acid (PFNA)	8.24	10.7	8.43
Perfluorooctane Sulfonic Acid (PFOS)	36.2	44.2	31.8
Perfluorooctanoic acid (PFOA)	39.6	23.5	14.3
Total PFOA and PFOS	75.8	67.7	46.1
Total PFAS	140.01	120.89	101
	A REAL PROPERTY AND A REAL	The state of the s	A second s

S, USDA, USGS, AEIUGRID, IGN, ali **GROUNDWATER PROBE PFAS ANALYTICAL RESULTS – DETECTIONS ONLY** WAINSCOTT SAND & GRAVEL

FIGURE 6A

SITE CHARACTERIZATION REPORT: WAINSCOTT SAND & GRAVEL SITE 152254

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Contraction of the second		China Martin Carlo	the state of the second second second	CONTRACTOR OF CASE OF
Sample:	WSG-MW-6-10-0		HIN HIN	Sample:	WSG-MW-7-10-0	A Monitoring	Vell Sampling Locations
Date:	11/6/2019			Date:	11/6/2019		
Depth (ft):	6		Salar Street Street Street	Depth (ft):	7	Site Bounda	rv
Perfluorobutanesulfonic Acid (PFBS)	2.5		The second second second second second second second second second second second second second second second s	Perfluorobutanesulfonic Acid (PFBS)	0.23 J		.,
Perfluorodecanoic Acid (PFDA)	92.3	MW	16	Perfluorodecanoic Acid (PFDA)	0.4 EMPC	Notes:	8
Perfluoroheptanoic Acid (PFHpA)	50			Perfluoroheptanoic Acid (PFHpA)	0.85 J		of the New York State
Perfluorohexanesulfonic Acid	58.9 B			Perfluorohexanoic Acid (PFHxA)	0.76 J	PFAS Guidelines are	
Perfluorohexanoic Acid (PFHxA)	61.1		MW7	Perfluorononanoic Acid (PFNA)	4.55		es contamination was
Perfluorononanoic Acid (PFNA)	2850	MW5		Perfluorooctane Sulfonic Acid (PFOS)	15	detected in the asso	
Perfluorotridcanoic Acid (PFTriA)	1.49 J			Perfluorooctanoic acid (PFOA)	3.9	3. EMPC (estimated	
Perfluoroundecanoic Acid (PFUnA)	333			Total PFOA and PFOS	18.9	concetration) qualified	er indicates indicates that
Perfluorooctane Sulfonic Acid (PFOS)	151		and the second	Total PFAS	25.69		ut did not meet all met
Perfluorooctanoic acid (PFOA)	26.1				1		
Total PFOA and PFOS	177.1						s the result is estimated.
Total PFAS	3626.39					5. All results are give	en in ng/l.
A REAL PROPERTY AND A REAL			MW2			Analyte	NYS 703.5
Sample:		MW3				PFCs	TOGS Class GA
Date:	11/7/2019					Perfluorohexanesulfoni	Acid 100
Depth (ft):	13		A			Perfluorononanoic Acid	(PFNA) 100
Perfluorobutanesulfonic Acid (PFBS)	4.58		A REAL PROPERTY OF			Perfluoroundecanoic Ac Perfluorooctane Sulfoni	
Perfluoroheptanoic Acid (PFHpA)	2.95		The Difference			Perfluorooctanoic acid	
Perfluorohexanesulfonic Acid	566 B		Loch the selfer			Total PFOA and PF	DS 10
Perfluorohexanoic Acid (PFHxA)	12		Carlinte Martin			Total PFAS	500
Perfluorononanoic Acid (PFNA)	1.64 J		Part Barbar Car An Int				
Perfluorooctane Sulfonic Acid (PFOS)	877		Kall + the				0 Miles 0.07
Perfluorooctanoic acid (PFOA)	69.4		and the second			and the state of the second	A CONTRACTOR OF A CONTRACTOR
Total PFOA and PFOS	946.4				SHELIRE	Sample:	WSG-MW2-10-0
Total PFAS	1533.57	MW4	and the second sec	Sector Andrews	1305035	Date:	11/6/2019
Sample:	WSG-MW3-10-0		12 42	The second second second	New York	Depth (ft):	10
Date:	11/7/2019			MW8	Perfluorobu	tanesulfonic Acid (PFBS)	9.33
Depth (ft):	10				Perfluorode	canoic Acid (PFDA)	2.32
Perfluorobutanesulfonic Acid (PFBS)	3.66				Perfluorohe	ptanoic Acid (PFHpA)	35
Perfluoroheptanoic Acid (PFHpA)	2.27		· · · ·		Perfluorohe	xanesulfonic Acid	23.9 B
Perfluorohexanesulfonic Acid	306 B				Perfluorohe	xanoic Acid (PFHxA)	35.5
Perfluorohexanoic Acid (PFHxA)	9.53		and the	A BANK AND AND AND	Perfluorono	nanoic Acid (PFNA)	58.2
Perfluorononanoic Acid (PFNA)	2.2				A REAL PROPERTY OF THE OWNER.	tane Sulfonic Acid (PFOS)	36.3
Perfluorooctane Sulfonic Acid (PFOS)	1010		127	1/2	La contraction of the second sec	tanoic acid (PFOA)	47.6
Perfluorooctanoic acid (PFOA)	27.5		MV	W1	Total PF	OA and PFOS	83.9
Total PFOA and PFOS	1037.5			and a second second	Total PF	AS	248.15
Total PFAS	1361.16				ALL ALL		
A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PRO		- Sample:			Sample:	WSG-MW8-25-0	WSG-MW8-25-1 (DUP)
Sample:		Date:			Date:	11/6/2019	11/6/2019
Date:	11/7/2019	Depth (ft):		and person the	Depth (ft):	25	25
Depth (ft):	10	Perfluorobutanesulfonic Acid (PFBS)	0.91 J	the party of the p	sulfonic Acid (PFBS)	5.16	5.58
Perfluorobutanesulfonic Acid (PFBS)	2.11	Perfluorodecanoic Acid (PFDA)	0.7 J	Perfluorodecano		0.47 J	0.77 J
Perfluoroheptanoic Acid (PFHpA)	1.09 J	Perfluoroheptanoic Acid (PFHpA)	3.46	and the second se	oic Acid (PFHpA)	13.6	12.2
Perfluorohexanesulfonic Acid	43.4 B	Perfluorohexanesulfonic Acid	2.38 B	Perfluorohexane		26.2 B	27.4 B
Perfluorohexanoic Acid (PFHxA)	5.06	Perfluorohexanoic Acid (PFHxA)	4.46	Perfluorohexand	<i>/</i>	25.1	25.7
Perfluorononanoic Acid (PFNA)	0.8 J	Perfluorononanoic Acid (PFNA)	1.33 J	Perfluorononano		4.63	3.81
Perfluorooctane Sulfonic Acid (PFOS)	232	Perfluorooctane Sulfonic Acid (PFOS)	11.6	Perfluorooctane	Sulfonic Acid (PFOS)	58.5	56.4
Perfluorooctanoic acid (PFOA)	5.57	Perfluorooctanoic acid (PFOA)	4.87	Perfluorooctano	ic acid (PFOA)	37.5	34.1
Total PFOA and PFOS	237.57	Total PFOA and PFOS	16.47	Total PFOA a	and PFOS	96	90.5
Total PFAS	290.03	Total PFAS	29.71	Source: Esri Dic Total PFAS		171.16	165.96

MONITORING WELL ANALYTICAL RESULTS – EXCEEDANCES ONLY WAINSCOTT SAND & GRAVEL

Environment of Conservation



Analyte	NYS 703.5 TOGS Class GA
PFCs	ng/l
Perfluorohexanesulfonic Acid	100
Perfluorononanoic Acid (PFNA)	100
Perfluoroundecanoic Acid (PFUnA)	100
Perfluorooctane Sulfonic Acid (PFOS)	10
Perfluorooctanoic acid (PFOA)	10
Total PFOA and PFOS	10
Total PFAS	500
A	

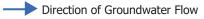
FIGURE 7A





Groundwater Contours

– (Dashed where inferred)





Site Boundary

Notes:

1. Groundwater elevations are shown in ft amsl.



0.06

S/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

GROUNDWATER CONTOURS WAINSCOTT SAND & GRAVEL FIGURE 8

SITE CHARACTERIZATION REPORT: WAINSCOTT SAND & GRAVEL SITE 152254

APPENDIX B PROJECT PERSONNEL RESUMES LABORATORY INFORMATION





Stephanie O. Davis, PG, RG, CPG

An **Olgoonik** Company

Engineering and Environmental Science



Ms. Davis has diversified experience in geology and hydrogeology. Her professional technical experience includes groundwater, soil, and soil vapor investigations, design and management of soil and groundwater remediation projects, design and installation of groundwater containment systems, design and evaluation of soil vapor intrusion mitigation systems, groundwater flow modeling, aquifer testing and interpretation, evaluation of site compliance with environmental regulations, and personnel training. Ms. Davis presently manages several large-scale investigation and remedial programs, including program scopes, budgets, staffing, and schedules.

Functional Role	Title	Years of Experience
QA/QC Officer	Corporate Vice President	30+

Personal Data

Education

M.S./1984/Geology/University of Southern California B.S./1981/Geology/Bucknell University

Registration and Certifications

New York Professional Geologist #000247, 2017 Certified Professional Geologist #9487, (AIPG) 1995 California Registered Geologist #5192, 1991 Pennsylvania Professional Geologist #PG-000529-G,1994 OSHA-approved 40-hour Health and Safety Training Course (1990) OSHA-approved 8-hour Health and Safety Training

- OSHA-approved 8-hour Health and Safety Training Refresher Courses (1991-Present)
- OSHA-approved 8-hour Site Safety Supervisor Training Course (2008)
- National Ground Water Association
- Long Island Association of Professional Geologists
- USEPA Triad Training for Practitioners
- NYC OER Gold Certified Professional

Employment History

- 1993-Present FPM Group
- 1992-1993 Chevron Research and Technology Co.
 1990-1992 Chevron Manufacturing Co.
 1984-1990 Chevron Exploration, Land, and Production Company

Continuing Education

- o Treatment of Contaminated Soil and Rock
- o Groundwater Pollution and Hydrology
- Environmental Law and Regulation
- o Remedial Engineering
- o Soil and Foundation Engineering
- Environmental Geochemistry
- o Project Management Professional (PMP) training

Detailed Experience

Site Investigations

• **Program Manager** for ongoing investigation and remedial projects at several New York State Inactive Hazardous Waste Disposal sites, Voluntary Cleanup Program (VCP) sites, and Brownfield Cleanup

Program (BCP) sites, and NYCOER e-designated sites. Investigations have included site characterization, Remedial Investigation/Feasibility Studies (RI/FS), and Resource Conservation and Recovery Act (RCRA) facility investigations and closures. Remedial services have included removal, in-situ contaminated soil chemical treatment, design, installation, and operation of air sparge/soil vapor extraction (AS/SVE) systems and depressurization sub-slab systems (SSDSs), capping, and other remedial measures.

- Program Manager, NYS Inactive Hazardous Disposal Waste Site, Greenpoint, NY. Responsible for project scoping, cost estimation, subcontracting, field services, report preparation, and agency negotiations for a former manufacturing Services included an RI. an FS. facility. implementation of an Interim Remedial Measure (IRM), and an underground utility survey, Α Remedial Action Work Plan (RAWP) was also prepared for an associated petroleum spill.
- Program Manager, NYS BCP Site, Far Rockaway, NY. Managed all aspects of pre-application investigation, BCP application, RI Work Plan development and implementation, and Citizen Participation Plan (CPP) for a chlorinated solvent site. Responsible for scope development, NYSDEC and NYSDOH coordination, budget, schedule, staffing, and report management.
- Program Manager, Site Characterization (SC) for NYS Inactive Hazardous Waste Disposal Site, Flushing, NY. Responsible for SC scope development, budget, schedule, SC Work Plan and report review, staffing, and agency negotiations for a chlorinated solvent site undergoing residential redevelopment.
- Program Manager, Investigation and Remedial Services, NYS BCP Sites, Far Rockaway, NY. Managed scope, budget, schedule, staffing and quality assurance for pre-application investigations of several associated BCP sites. Prepared the BCP applications and supporting documentation for the environmental issues, including chlorinated



solvents, a petroleum spill, petroleum tanks, and historic fill.

- Program Manager, Environmental Services for Senior Living Developer, Long Island, NY. Performs environmental analyses and directs investigation and remedial activities for property acquisition and redevelopment for senior residential facilities. Services included Phase I ESAs, investigation and remediation cost estimation, Phase II investigations, Site Management Plans, and transaction and regulatory agency negotiations.
- Program Manager, Environmental Services for Commercial Real Estate Developer, Long Island, NY. Managed all Phase I ESA, Phase II investigations, and remediation projects for a major commercial real estate developer. Projects included environmental services associated with purchase and redevelopment of office buildings, aerospace facilities, former research and development facilities, and large manufacturing plants. Remedial services have included RCRA closures, UIC closures, tank removals, and large excavations.
- Program Manager, RI/FS, RAWP, and Remedial Services, Levittown, NY. Managed all aspects of RI/FS for a Class 2 Inactive Hazardous Waste Disposal (Superfund) site involving chlorinated solvents. Responsibilities included RI/FS scope, budget and schedule development, RI/FS work plan, HASP, CAMP, and QAPP, coordination with client, tenants, and regulatory agencies, report review, remedial approach development, conceptual design, and cost estimation. Developed RAWP and negotiated the remedial scope with the NYSDEC. Remedial services included implementation of AS/SVE, SSDS, and site management.
- Program Manager, Environmental Investigation and Remediation, Communication Facility, Long Island, NY. Responsible for all aspects of investigation and remediation of a former communications facility during property acquisition and redevelopment for a medical facility use. Services included Phase I ESA, facility investigation scope, budget, staffing, and reporting, and remediation cost estimation. Environmental issues included obsolete communications and facility equipment, USTs, underground injection control systems, asbestos and other hazardous materials, and transaction and regulatory agency negotiations.
- Project Manager, RCRA Facilities Investigation (RFI), Barksdale AFB, LA. Responsible for all aspects of field program planning, solicitation and selection of subcontractors, mobilization and establishment of a field office, supervising multiple field crews, installation and sampling of monitoring wells, collection and soil samples, data tracking and

management and preparation of an RFI report. The scope of work included characterization of the nature and extent of groundwater and soil contamination at thirteen Solid Waste Management Units (SWMUs), performing a Base-wide evaluation of background contaminant concentrations, and developing a longterm monitoring (LTM) program for the Base.

Engineering and Environmental Science

- Field Services Manager, UST Investigation, Plattsburgh AFB, NY, AFCEE. Responsible for field crew training, coordination of sampling crews at multiple sites, sample labeling, handling, tracking, and shipping, field data management and remote field office management. The scope of work included collection of over 450 groundwater samples to characterize groundwater conditions in the vicinity of 150 USTs using a Geoprobe sampling rig, well points, and rapid turnaround-time analysis.
- Program Manager Environmental Investigation for Supermarket Developer, Long Island, NY. Conducted site investigations, including soil vapor sampling, soil sampling and analysis, groundwater sampling and analysis, and geotechnical evaluation for numerous sites in Suffolk County, New York. The resulting data were utilized by a major supermarket company in the negotiations for the purchase of the properties and in the property remediation prior to development.
- Project Manager, Site Investigation, Bronx, NY. Managed field sampling and data analysis activities, including soil vapor analysis, soil sample analysis, and groundwater sampling and analysis at an active commercial bus terminal. Made recommendations for site remediation, including UST removal, soil excavation and disposal, and free-phase product extraction.
- Project Manager, RCRA Facilities Investigation, City of Richmond, CA. Prepared RFI work plan, incorporating existing geologic, chemical, and historical data, evaluating newly-acquired site data, and developing recommendations for further investigation and remedial action at a former municipal landfill.
- Project Manager, Site Investigation, Bay Shore, NY, Manufacturing facility. Managed onsite and offsite soil and groundwater sampling program. Compiled and evaluated data and prepared a comprehensive report of the investigation results for approval by the SCDHS and NYSDEC. Proposed remediation technologies for onsite soil contamination and onsite and offsite groundwater contamination.
- Project Manager, Site Investigation for FAA, Newark Airport, NJ. Managed and conducted a soil and groundwater sampling program adjacent to



Runway 29. Analyzed chemical analytical data and developed recommendations.

- Project Manager, Remedial Investigation, Richmond Refinery, CA. Supervised and conducted drilling, soil sampling, cone penetrometer testing, and well installation at a refinery process water effluent treatment system and former municipal landfill.
- Program Manager, major New York Metro area automobile dealer. Managed all investigation and remedial activities for a major automobile retailer with multiple facilities. Sites included tanks, petroleum spills, underground injection control (UIC) systems, soil vapor intrusion issues, and hazardous waste management. Responsible for work scope and budget preparation, staffing and oversight, client and regulatory agency interactions, addressing insurance issues, reporting and certification, and project closeouts.
- groundwater Program Manager, SWTP • monitoring program, Town of East Hampton. Managed groundwater monitoring and reporting for the Scavenger Waste Treatment Plant (SWTP). Responsibilities included oversight of well installation, purging and sampling the SWTP groundwater monitoring wells, and providing data to the Town for reporting purposes.
- Program Manager, Site Assessments for Transportation Hub development, Suffolk County, NY. Manages Phase I ESAs, Phase II investigations, and remediation required for client acquisition of multiple parcels for redevelopment. Coordinates and oversees each project, interfaces with counsel and regulatory agency representatives, and develops comprehensive cost estimates.
- Expert Environmental Review Services. Nationwide Sites for Real Estate Developers. Reviews environmental investigation and remediation reports for several major real estate developers, advises clients regarding environmental concerns for property acquisition and redevelopment, develops comprehensive cost with estimates. coordinates construction contractors, architects, regulators and attorneys regarding environmental concerns.
- Expert Environmental Consulting Services, Multiple Sites, Town of Brookhaven, NY. Performed site inspections, investigations, and remedial cost estimation in response to Town Attorney requests. Assisted with Town Code revision and litigation. Coordinated with Town personnel, outside counsel, regulatory agency representatives, and law enforcement officers regarding environmental concerns.

Engineering and Environmental Science

• **Program Manager, Large Agricultural Property, Jamesport, NY.** Responsible for investigation scoping, budget and schedule, remedial cost estimates, staffing, and client interactions for evaluation of a large agricultural property for a property transaction.

Remediation

- Program Manager, NYSDEC BCP site, NY City, • major real estate developer. In responsible charge of all investigation and remedial activities at a NYSDEC BCP site in New York City. Prepared the RI and Remedial Work Plan; coordinated with the owner, contractors, and NYSDEC; prepared for and conducted citizen participation activities; supervised all waste characterization, profile preparation, and waste management; developed the Final Engineering Report (FER) and Site Management Plan (SMP) for NYSDEC approval; and ensured that all remedial requirements were met such that the Certificate of Completion (COC) was issued. Continuing activities include coordination of the ongoing site management, communications with the NYSDEC and NYSDOH, and preparation of the Periodic Review Reports (PRRs).
- Program Manager, Major Oil Storage Facility (MOSF) closure, Glen Harbor, NY. Responsibilities included coordination of the work scope with the NYSDEC and NCDOH, development of work plans for tanks, UIC, and petroleum spill closure, budget and schedule development, staffing and oversight, reporting and certification, and closeout of all environmental issues such that residential redevelopment could proceed.
- Program Manager, Delineation and Remedial Services, NYS Spill Site, Amityville, NY. Successfully managed all aspects of investigation remediation, and closure of a #6 fuel oil spill at a hospital site. Work included spill delineation, waste characterization, removal and proper disposal of about 4,000 tons of impacted soil and 6,000 gallons of petroleum, oversight, reporting, and regulatory agency negotiations.
- Program Manager, Delineation and Remedial Services, NYS Spill Site, St. James, NY. Responsible for client and agency coordination, budget, schedule, staffing, remedial design and reporting for a petroleum release at a service station property with offsite impacts.
- Program Manager, RCRA Closure Site, Freeport, NY. Successfully managed all aspects of RCRA Closure of a former printing facility, including scope, budget and schedule development, Closure Plan, NYSDEC interactions, QAPP, specifications for



Stephanie O. Davis, PG, RG, CPG

contractor services, remediation, and Closure Report.

- Program Manager, Sub-slab depressurization system (SSDS), Brooklyn, NY. Managed all aspects of SSDS implementation, including delineation sampling, remedial design, budget and schedule, construction services testing, reporting, and O&M manual development for a former dry cleaner site in an active shopping center.
- Program Manager, SSDS, Bronx, NY. Responsible for all aspects of SSDS implementation for a former dry cleaner site in a mixed-use building, including delineation sampling, SSDS design, construction contractor services, testing, reporting, and O&M manual development.
- Program Manager, Investigation and Remediation for Nassau County, NY Subdivision Coordinated investigation Approval. and remediation of a former school facility for redevelopment with multi-family housing. Services included Phase I ESA, Phase II investigation, NCDOH Remedial Work Plan development and implementation, and Remedial Action Reports. Issues addressed included soil, USTs, UICs, transformer areas, and water supply well closure.
- Project Manager, Soil Remediation of metal plating facility, Hauppauge, NY. Planned remedial project and managed contractor support for soil remediation. Project was completed and approved by SCDHS.
- Program Manager, Investigation and Remediation of Former Agricultural Properties. Responsible for all aspects of investigation and remedial plans required for redevelopment of former agricultural properties in Suffolk County, NY. Prepared Soil Management Plans (SMPs) and received regulatory agency approvals.
- Remedial Design, AS/SVE projects. Developed pilot test plans, evaluated pilot test results, and prepared conceptual designs for several air sparge/soil vapor extraction (AS/SVE) systems to treat petroleum and/or chlorinated solvent VOCs. These systems were subsequently installed and operated. Provides ongoing review of system operations and remedial monitoring results.
- Program Manager, Waste soil management, Brooklyn, NY. In responsible charge of several task orders for waste characterization of a 90,000-cy construction soil stockpile at a municipal sewer facility. Responsibilities included development and implementation of Sampling and Analysis Plan (SAP), coordination of staffing, review of lab data, preparation of Field Sampling Summary Reports, coordination with disposal facilities, and preparation of waste profiles.

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- Program Manager, NYS Inactive Hazardous Waste Disposal (Superfund) site, Hicksville, NY. Responsibilities included developing and implementing pre-demolition investigations, developing and implementing remedial actions (source removal) in conjunction with retail redevelopment, conceptual design and installation of sub-slab depressurization systems (SSDSs), and maintaining the ongoing OM&M program.
- Project Manager, Remedial project, Patchogue, NY. Designed and performed indoor underground storage tank abandonment program and leaching pool remediation plan, and managed contractor support for closure activities at a metal tape manufacturing facility. SCDHS provided oversight and approval.
- Senior Hydrogeologist, Groundwater Containment System, Richmond, CA. Contributed to the design of a groundwater containment and remediation system for a former municipal landfill, including subsurface groundwater barrier walls and extraction wells. Coordinated technical aspects of groundwater barrier wall construction, including routing, permitting, material selection, and field activities.
- Project Manager, Soil remediation, Carle Place, NY. Designed remedial plan and supervised soil remediation activities at an active construction site involving excavation and disposal of 5,000 tons of PCB-, metal-, and petroleum-contaminated soil. NYSDEC oversaw and approved the completed remediation.
- Project Manager, Multiple UIC investigations and closures, Suffolk and Nassau Counties, NY Responsible for investigation and remediation of contaminated cesspool and stormwater drain pool systems. Fully conversant with SCDHS SOP 9-95 and USEPA UIC regulations for investigation and cleanup of leaching pool systems, including Action Levels and Cleanup Standards, groundwater monitoring criteria, and remedial requirements.
- Project Coordinator, UIC Closure, Hempstead, NY. Coordinated and supervised all aspects of waste management for a UIC closure, including disposal facility review, waste sampling and classification, manifesting, project closeout, and taxation issues.

Hydrogeologic Evaluations

• Project Manager, Well Permitting, East Hampton, NY. Prepared Engineer's Report for Long Island Well Permit for a 230-gpm irrigation supply well. Responsible for evaluation of well interference, salt water upconing, impacts from contaminants, and other factors affecting the proposed well. Performed



well design (gravel pack size, screen size, etc.). Familiar with sieve analyses, well construction and development methods.

- Senior Hydrogeologist, groundwater modeling, East Hampton, NY. Utilized Visual Modflow to evaluate impact from a contaminant plume on a proposed SCWA wellfield. Model development included evaluation of recharge, aquifer properties, subsurface stratigraphy, boundary conditions, plume source and concentration, and wellfield locations and pumping rates.
- Hydrogeologist, aquifer testing, Manhattan, NY. NYCT. Participated in a multi-day, multi-well aquifer pumping test for NYCT subway extension. Responsible for operating and maintaining data logging equipment, coordinating manual water level measurements, and analyzing resulting drawdown data.
- Hydrogeologist, aquifer evaluation, Brooklyn, NY. Evaluated subsurface geologic conditions for subway site utilizing existing boring logs, topographic, and historic map data.
- Hydrogeologist, aquifer testing, Queens, NY. Performed slug tests on monitoring wells at an East Side Access site, and evaluated hydrologic properties using the HYDROLOGIC ISOAQX computer program.
- Hydrogeologist, Remedial well installation, USEPA Superfund site, Deer Park, NY. Supervised drilling, installation and development of groundwater extraction, injection, and monitoring wells at a USEPA Superfund site. Interpreted aquifer and well performance from development data and recommended modification of drilling and development procedures.
- Hydrogeologist, Aquifer testing, Manhattan, NY. Performed aquifer pumping and slug tests and evaluated hydrologic properties using the AQTESOLV computer program. Results were used to address dewatering and construction concerns for subway tunnels.
- Hydrogeologist, Aquifer evaluation, Mattituck Airport, Mattituck, NY. Performed water level and water quality monitoring at a NYSDEC Superfund site. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration.
- Senior Hydrogeologist, DEIS services, Lazy Point, NY. Prepared detailed evaluations of groundwater conditions and potential impacts for a water main extension to Lazy Point for a draft Environmental Impact Statement (DEIS). Evaluated current and historic groundwater data and analytical models to determine potential impacts for both Lazy

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Point and the drinking water source area and prepared associated portions of the DEIS.

Landfills

- Program Manager, Greenhouse gas monitoring program, Town of Islip, NY. Responsibilities include scope and budget management, staffing, client and USEPA coordination, reporting review, and troubleshooting.
- Project Manager, Landfill Closure Investigations, Town of East Hampton, NY. Prepared Closure Investigation work plans, including Hydrogeologic investigations, methane investigations, surface leachate investigations, and vector investigations. Prepared final Closure Investigation Reports, approved by the NYSDEC.
- Project Manager, Landfill monitoring networks, Town of East Hampton, NY. Supervised installation of groundwater and methane monitoring wells at the landfills, including hollow-stem auger and mud-rotary well installations, split-spoon soil sampling and boring log preparation, oversight and interpretation of wireline electric logging, and completion of initial baseline monitoring events.
- Hydrogeologist, Landfill groundwater monitoring, NJ. Performed groundwater sampling at a radio tower facility constructed on a landfill. Analyzed results and made recommendations.
- Program Manager, Landfill monitorina programs, Town of East Hampton, NY. Supervises ongoing groundwater and methane programs, including field monitorina team coordination, communications with the Town, report scheduling, data review, and report review prior to distribution to the client and NYSDEC. Negotiated with NYSDEC for reduced monitoring frequencies based on historic monitoring results.
- Senior Hydrogeologist, Landfill plume modeling, Town of East Hampton, NY. Conducted groundwater flow modeling to evaluate the nature and extent of a landfill plume and its fate. Findings were presented at public meetings and were used to determine the configuration of the landfill's groundwater monitoring network.
- Hydrogeologist, Septage lagoon Superfund site, Town of East Hampton, NY. Conducted sampling of former septage lagoons at a landfill. Evaluated the resulting data and prepared a delisting petition for this NYSDEC Superfund site.
- Hydrogeologist, containment system modeling, Richmond, CA. Used FLOWPATH modeling program to predict groundwater flow directions and evaluate extraction well locations and pumping rates for a groundwater containment and remediation system at a former municipal landfill.



- Program Manager, Landfill gas monitoring program, Town of Islip, NY. Manages monthly methane monitoring for all landfills, including onsite and offsite monitoring wells, methane collection systems, and flare systems. Data is recorded electronically and downloaded to computer for formatting prior to expedited delivery to Town.
- Program Manager, Landfill monitoring reporting program, Town of Smithtown, NY. Supervised and reviewed quarterly and annual monitoring reports for all monitoring programs at the landfills for Town compliance with NYSDEC requirements, including tabulation and reporting of groundwater and methane monitoring data, solid waste and recycling collection data, yard waste composting operations, and landfill leachate collection and disposal data.
- Program Manager, Landfill remediation, Town of Huntington, NY. An historic landfill was removed from parkland under the NYSDEC's ERP. Responsibilities included work scope development, schedule and budget management, staffing, client and regulatory agency coordination and reporting, and report review and certification.
- Program Manager, Landfill Financial Assurance Reporting, Town of Smithtown, NY. Prepares annual Financial Assurance Reports as per Town landfill closure requirements. Services include summarizing landfill closure and monitoring costs, calculating total costs over a 30-year period, evaluating available Town funds using Comptroller's financial reports, assessing available funds using NYSDEC-required procedures, and preparing annual reports.

Environmental Data Analysis

Ms. Davis has participated in multiple sessions of environmental geochemistry training provided by environmental geochemists, including physical ionic chemistry. thermodynamics. interactions. complexation, biologic effects, and other basic Training also included field sampling principles. procedures and effects on chemical data, chemical analytical methods and equipment, and QA/QC procedures and interpretation. Attended periodic environmental chemistry training sessions hosted by environmental laboratories and participated in handson training in data and QA/QC evaluation.

• Data Evaluation, multiple projects. Reviewed and evaluated numerous soil, groundwater, product, indoor/ambient air, and soil vapor chemical analytical datasets, including evaluation of batch and site-specific QA/QC samples, laboratory narratives, comparison to regulatory agency criteria, historic data, and background data.

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- Quality Assurance Project Plans (QAPPs), multiple projects. Developed and implemented numerous QAPPs, including QAPP design, sample delivery group (SDG) evaluations, sampling procedures and sequences, and QA/QC sample preparation/collection.
- Data Usability Summary Reports (DUSRs), multiple projects. Prepared DUSRs for numerous chemical analytical datasets for projects overseen by USEPA, NYSDEC and other regulatory agencies, including soil, groundwater, soil vapor, indoor air, and ambient air datasets.
- DUSR Preparation for Major RCRA Closure, Great Neck, NY. Prepared DUSRs for over 90 sites during RCRA closure of a major manufacturing facility. Coordinated with sampling personnel, laboratories and regulatory agency chemists to resolve QA/QC issues. Completed work under tight schedules to meet client deadlines.
- Electronic Data Deliverables (EDDs), multiple projects. Implemented protocols and procedures for all FPM sites for which NYSDEC EDDs are required. Responsibilities included staff training, data package QA/QC, client interactions, budget and schedule impact assessments, and dissemination of EDD training information.
- Data Evaluation, multiple sites. Performed forensic assessments of historic environmental chemical analytical data to resolve apparent discrepancies with modern data and other inconsistencies.
- Leachate test assessments. Assessed leachate test protocols and results to determine the most applicable methods to evaluate and develop soil cleanup objectives for non-regulated compounds.
- Organic parameter breakdown assessments. Interpreted numerous organic parameter datasets to evaluate breakdown sequences, likely original parameters, and rates of degradation.
- In-situ remediation assessments, multiple sites. Formulated chemical treatment plans for in-situ remediation, including assessment of contaminant concentrations and distribution, chemical processes and indicators, natural attenuation indicators, stochiometric demands, and hydrogeologic factors.

Community Impacts

• Community Monitoring Plans, multiple hazardous waste sites. Developed Community Air Monitoring Plans (CAMPs) for investigation and remediation projects, including monitoring procedures, action levels, and mitigation measures for odors, traffic, noise, dust, and/or vapors with the potential to affect surrounding communities. Each



CAMP was approved by the NYSDEC and NYSDOH and was implemented under agency oversight. Presented CAMP findings at numerous community meetings. Addressed community and agency guestions and issues.

- Odor Abatement, NYSDEC BCP site, NYC, NY. Developed and implemented an odor abatement plan for highly-odorous soil discovered during a remedial project. The site was surrounded by three public schools; complaints following discovery of odorous soil resulted in a job shutdown until the nuisance was abated. The odor abatement plan was prepared and implemented within 24 hours and involved immediate covering of the odorous soil followed by spot excavation and removal during nonschool hours (night work) and the use of odorcontrolling foam. The removal was completed within one week without further incident. The NYSDEC and NYSDOH approved the completed work, allowing the job to recommence.
- Vector Assessment, transfer station, Town of East Hampton, NY. Conducted inspections of intense fly infestations at a Town transfer station building to identify the locations and migration pathways of flies inside the building and to develop an abatement plan. This plan was successfully implemented and abated the nuisance flies.
- Soil Vapor Intrusion Assessments, multiple sites. Developed and implemented air and soil vapor investigations of residential and commercial properties, as approved by the NYSDEC/NYSDOH, to evaluate potential air quality impacts and determine if mitigation or monitoring was necessary. Monitoring/mitigation designs were developed for NYSDEC/NYSDOH approval.
- CAMP Monitoring, multiple sites. Conducted odor, dust, noise, and organic vapor monitoring in communities surrounding environmental sites. Data were collected and interpreted in accordance with NYSDEC and/or NYSDOH guidance and the results were submitted to these agencies together with recommendations for mitigation, if appropriate.
- Project Manager, Environmental data assessment, Windmill Village, Town of East Hampton, NY. Evaluated environmental data obtained during due diligence testing for a proposed housing development. Recommended additional sampling and confirmed the absence of impacts.

Expert Witness/Technical Services

• Expert Witness/Technical Services, residential project, Glen Harbor, NY. Provided expert witness and technical services regarding environmental conditions and remedial procedures for residential redevelopment of a former oil terminal, including

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preparing and obtaining NYSDEC and NCDOH approval of remedial work plans, preparing remedial cost estimates and schedules, and providing testimony at a public hearing before the Town Board from which a change of zone was requested. The proposed change of zone, although subject to considerable public opposition, was approved, allowing redevelopment and associated remediation of the property to move forward.

- Expert Witness/Technical Services, petroleum spill site, Westbury, NY. Provided expert witness and technical services to a petroleum company defending NYSDEC cost recovery claims for a petroleum spill. The spill site involved two very large petroleum releases at gasoline stations adjoining the defendant's property. Services provided included evaluating tank tests, groundwater, soil and soil vapor chemical analytical data, petroleum fingerprint data, remediation activities and costs. Prepared numerous detailed timelines of activities, large displays of site information and subsurface conditions, and cost allocation calculations. Conducted a detailed subsurface investigation to evaluate stratigraphic conditions.
- Expert Witness/Technical Services, petroleum • spill site, Brooklyn, NY. Provided expert witness and technical services to a petroleum company for investigation and remediation cost allocation for a petroleum spill. The spill site included two releases: an historic release related to the client's operations and a recent release related to a contractor's faulty spill bucket installation. Services provided included evaluating groundwater and soil chemical analytical data, assessment of free-phase product migration and removal, and a review of remediation activities. Prepared detailed timelines of plume growth and migration. displays of site information and subsurface conditions, and assessments of future remedial scopes and costs. Provided technical support and presentations during mediation.
- Expert Technical Services, chlorinated solvent site, Far Rockaway, NY. Provided expert witness services for federal court litigation, including Expert Reports, Affidavits, depositions, and counsel support. Oversaw supporting technical services, including conducting an RI and additional investigations and developing remedial approaches and cost estimates.
- Expert Technical Services, solvent plume site, Nassau County, NY. Provided technical support to a property owner subject to a USEPA investigation as the potential source of a large chlorinated solvent plume, including evaluation of a plume-wide RI/FS, detailed review of property historic information, multiple meetings with the USEPA, client and



counsel, and identification of additional potential source areas.

- Expert Technical Services, solvent plume site, Nassau County, NY. Provided technical support to a property owner subject to litigation as a potential source of chlorinated solvent impacts to a public supply well, including evaluation of a plume-wide RI/FS and related investigation reports, detailed review of property historic information, meetings with the plaintiff, client and counsel, and identification of more likely chlorinated solvent sources.
- Expert Technical Services, contaminated fill sites, Town of Brookhaven, NY. Provided expert technical and witness services for several Town sites where illegal disposal of contaminated fill was suspected. Services provided included site inspections, preparation of investigation scopes and budgets, preparation of technical reports, Expert Reports, and Affidavits, participating in depositions and negotiations, and counsel support. Oversaw supporting technical services, including conducting investigations and developing remedial approaches and cost estimates.
- Expert Technical Services, development site, Village of Larchmont, NY. Assisted the Village in successfully opposing the construction of a very large superstore in the adjoining community, including evaluating previous environmental investigations, developing cost estimates and scopes of work for a full environmental site assessment, preparing scoping cost estimates for likely remediation scenarios, preparing technical documents in support of the Village's position, and making a presentation at a public hearing. The proposed project was subsequently withdrawn.
- Expert Hydrogeologist Services, development site, Town of Carmel, NY. Provided technical evaluation of a proposed water district. The proposed water district would impact existing residents due to limited available water supplies and likely impact on existing wells. The work included evaluation of aquifer pumping tests, determining impacts on nearby wells, assessment of likely increased water demand, preparation of supporting documents, and presentations at project hearings. The proposed project was subsequently conditionally approved by the NYSDEC with significant modifications to protect the water rights of existing residents.
- Expert Technical Services, development site, Village of Laurel Hollow, NY. Provided technical evaluations of potential impacts from a proposed development site, including soil and drainage conditions, loss of protected vegetation, and slope issues.

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- Expert Technical Services, development site, Village of North Haven, NY. Provided technical evaluations of a proposed development site, including soil and drainage conditions, geomorphic features, and slope issues.
- Expert Technical Services, road construction • projects, Westchester County, NY. Provided technical services to assess impacts from proposed road construction projects on the Kensico Reservoir and other New York City water supply system facilities. This work included evaluating stormwater pollutant loading calculations, assessing impacts to wetlands, promoting application of more accurate stormwater runoff calculation methods, assessing proposed stormwater management techniques, presenting at public meetings, preparing technical statements for submittal to regulatory agencies, and participating in the NYSDOT SWPPP Guidance committee.
- Expert Witness Affidavits, multiple projects. Prepared affidavits regarding environmental conditions at client properties in support of pending legal actions, including landfill issues, wetlands and navigatable waterway issues, and petroleum spills.

Health and Safety

- Health and safety monitoring, multiple sites. • Implemented HASP monitoring at investigation and sites during intrusive remediation activities, including calibration and operation of photoionization detector (PID) and flame ionization detector (FID) for organic vapors, combustible gas indicator (CGI) for methane, dust meter for particulates, and noise monitor. Compared results to applicable action levels and implemented protective measures as necessary.
- CAMP monitoring, multiple sites. Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors. Recorded observations and compared to applicable action levels. Calibrated and operated noise meters, particulate monitors, and PID/FID. Prepared CAMP monitoring reports and presented results to regulatory agencies and the public.
- Radiation screening, multiple sites. Performed screening for radiation at select sites, including operating Geiger counter in different radiation modes and obtaining background readings.

Miscellaneous Projects

• Phase I Environmental Site Assessments (ESAs). Performed numerous Phase I ESAs for industrial, commercial, and residential sites in the metropolitan New York area. Presently supervises



the Phase I ESA program, including budgets, staffing, quality control and report preparation.

- Environmental Trainer. Conducted aquifer pumping and soil vapor extraction test training. Instructed classes for site investigation methods, aquifer pumping test analysis, soil classifications, and risk assessment.
- **Project Management.** Performs a wide range of project management functions, including development and management of project budgets and schedules, coordination of field and office staffing, document preparation, review, editing, and interaction with clients, regulatory, legal, real estate, consultant, and compliance personnel.
- Field Mapping Studies. Organized, supervised, and conducted field mapping studies in Alaska.
- **Downhole Logging**. Directed petroleum well site geophysical logging operations and interpreted geophysical well logs.
- **Geophysical Data Interpretation**. Processed and interpreted seismic reflection data and constructed seismic velocity models.
- **Regulatory Evaluations**. Assisted and reviewed regulator's revision of proposed risk assessmentbased UST cleanup guidelines. Reviewed proposed USEPA NPDES permits for remediation system effluent.
- **Geologic Mapping**. Constructed and interpreted structural and stratigraphic cross sections, and structure contour, fault surface, isochore, and isopach maps.

Regulatory Compliance

- RCRA compliance audits. Conducted inspections and reporting regarding underground and aboveground storage tanks (USTs and ASTs), hazardous waste storage facilities, waste management and reporting requirements, and hazardous waste storage area closures in compliance with RCRA.
- CERCLA Compliance. Oversees and coordinates Phase I ESAs for compliance with CERCLA requirements for a wide variety of facilities, including operating and historic industrial sites, manufacturing plants, abandoned facilities, and multi-property Brownfield sites.
- Superfund Sites. Managed multiple investigation and remedial projects at state and federal Superfund sites. Is very familiar with all phases of CERCLA projects, including PA/SI, RI, FS, RD and RA. Has supervised and directed activities at many Superfund sites from investigation through closure.
- Clean Water Act Projects. Conducted investigation and remediation of Class V

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underground injection control (UIC) systems, investigation and acquisition of UIC discharge permits, and discharges into surface water bodies.

• Clean Air Act Compliance Projects. Conducted facility investigations for emissions sources, including paint booths, fume hoods, process discharges and other point sources. Sampled and evaluated remediation system discharges for CAA compliance, and recommended emissions treatment when required.

Representative DOD Projects

- Barksdale RFI, Barksdale AFB, LA, \$520K-Lead Geologist for RFI for multiple Base-wide sites at Barksdale AFB, including landfills, petroleum spills, fire training areas, sewage treatment plans, and chemical spills. Managed field crews and sampling of soil, groundwater, and waste, performed sample and waste management, and coordinated with Base representatives. Prepared RFI Report, including analytical data reports, CS, and recommendations.
- Barksdale LTM Program, Barksdale AFB, LA, \$1.7M-Lead Geologist for LTM Program for Basewide Barksdale groundwater, including landfills, petroleum spills, fire training areas, sewage treatment plants, and chemical spills. Supervised field crews, managed samples and waste, prepared LTM Reports and made recommendations for LTM optimization.
- Site Characterization, Plattsburgh AFB, NY, \$720K-Field Team Leader for SC investigation of fuel oil USTs and petroleum spills at Base housing, officers' quarters, and support building prior to transition of these areas to other uses. Working for AFCEE, developed and conducted an SC for over 200 USTs, including soil and groundwater sampling to identify petroleum contamination. Supervised several field crews in an accelerated sampling program to complete the SC prior to winter conditions. Prepared SC Report submitted to and approved by the NYSDEC.

MGP Site Experience

- Field Sampling Services. Soil Investigation, Brooklyn Union Greenpoint MGP site. Conducted soil sampling and screening activities during tank removal activities at this former MGP facility. Tasks included visual observations, screening with a calibrated PID, soil sampling, interfacing with the client, subcontractors and NYSDEC personnel, and report preparation.
- Program Manager. Soil Vapor Intrusion Investigation and Mitigation, Brooklyn MGP site. Developed and implemented a soil vapor intrusion (SVI) investigation following the discovery of



chlorinated solvents in soil vapor beneath a shopping center constructed on an MGP site. Managed all scheduling, budget and contract issues. Reviewed results and developed an SVI mitigation plan to address the chlorinated solvent vapors. Oversaw design and installation of a subslab depressurization system (SSDS) to address SVI. This work was completed on time and within budget.

• Field Team Supervisor. Soil Remediation, Brooklyn Union Coney Island MGP site. Engineering and Environmental Science

Responsible for coordinating all field activities associated with segregation and removal of leadpaint impacted soil from MGP waste at this NYSDEC-listed MGP site. Conducted preexcavation waste characterization, implemented HASP, oversaw subcontractor and FPM staff, coordinated with client and NYSDEC, managed waste manifesting, conducted community air monitoring, and prepared remediation report.



Ben T. Cancemi, PG, CPG

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Mr. Cancemi has diversified experience in geology and hydrogeology. His professional experience includes groundwater and soil investigations, design and management of soil remediation projects, installation and maintenance of groundwater containment and remediation systems, aquifer testing and interpretation, geotechnical studies, evaluation of site compliance with environmental regulations and environmental permitting.

Functional Role	Title	Years of Experience
Project Manager	Department Manager - Hydrogeology	24

Personal Data

Education

M.S./2001/Hydrogeology/SUNY Stony Brook B.S./1995/Geology/SUNY Stony Brook

Registration and Certifications

New York State Professional Geologist, #7051 Certified Professional Geologist – American Institute of Professional Geologists

NYC Office of Environmental Remediation – Gold Certified Professional

OSHA 40-hour HAZWOPER and Current 8-hour Health and Safety Training and Current Annual Physical

OSHA 8-hour HAZWOPER Supervisor OSHA 10-hour Construction Safety and Health OSHA Permit-Required Confined Space Training Long Island Geologists National Groundwater Association

Employment History

2001-Present	FPM Group
1998-2001	Burns & McDonnell Engineering
	Company
1997-1998	Groundwater and Environmental
	Services
1996-1997	Advanced Cleanup Technologies

Detailed Experience

Hydrogeologic Evaluations

- Project Manager, Lower Manhattan, NY. NYCT. Coordinated and performed constant head hydraulic conductivity (packer) testing in boreholes located in fractured bedrock in lower Manhattan, NY to evaluate fracture connectivity with the nearby Hudson and East Rivers and determine hydraulic conductivity and related parameters such that water management procedures could be implemented for redevelopment of the New South Ferry Subway Station.
- Project Manager, Manhattan, NY. NYCT Coordinated and performed a hydrogeologic investigation, including utility clearing, soil borings,

rock coring, packer testing, aquifer pumping testing, data collection, and interpretation, to evaluate subsurface conditions and determine geologic parameters for a proposed subway extension of the NYC Transit No.7 Subway Line.

• Project Manager, Various Sites Long Island, NYC, and Westchester County, NY Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer program AQTESOLV.

Site Investigations

- Program Manager for ongoing investigation and remedial projects at several New York State Inactive Hazardous Waste Disposal sites, Voluntary Cleanup Program (VCP) sites, and NYC OER e-designated sites. Investigations have characterization, included site Remedial Investigations/Feasibility Studies (RI/FS), and Resource Conservation and Recovery Act (RCRA) facility investigations and closures. Remedial services have included contaminated soil removal; design, installation, and operation of air sparge/soil vapor extraction (AS/SVE) systems and sub-slab depressurization systems (SSDS), capping, and other remedial services.
- Program Manager NYSDEC BCP Site. Brooklyn, NY Coordinated and performed an investigation, implemented remedial measures and regulatory reporting at a former dry-cleaning facility in Brooklyn, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included conducting pilot testing for installation of a sub-slab depressurization system (SSDS), coordinating the installation of vapor barrier and SSDS. Prepared a Final Engineering Report documenting remedial activities and a Site Management Plan for continued site monitoring. Site monitoring is currently being performed and includes SSDS operation and maintenance (O & M), annual air monitoring and periodic reporting.



Program Manager NYSDEC Inactive Hazardous Waste Site, Garden City, NY Coordinated and performed an investigation, implemented remedial measures and regulatory reporting for a former printing facility in Garden City, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included pilot testing and installation of an air sparge/soil vapor extraction (AS/SVE) system and SSDS. coordinating the installation of an SSDS, removal of contaminated soils from two areas and removal of impacted sediments from twelve leaching structures. Prepared a Final Engineering Report documenting remedial activities. Site monitoring included AS/SVE O & M, and periodic reporting. The AS/SVE has completed remediation and SVI testing has been performed to ensure remediation is complete. Prepared work plan to evaluate potential emerging contaminates including PFAS compounds. Sampling and subsequent analysis and reporting was performed.

- Program Manager, NYC Redevelopment Site, Queens NY. Program Manager for environmental activities at a NYC Voluntary Cleanup Program Site. Environmental activities included preparation of a Phase I report, completion of a remedial investigation, preparation of associated work plans, implementation of a community air monitoring program for site activities, excavation and disposal of impacted soils, management and disposal of clean soils, and regulatory reporting.
- Project Manager Remedial Investigation NYSDEC BCP Site, Queens, NY Coordinated and performed an investigation at a vacant commercial property Far Rockaway, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts from an adjoining offsite source. Prepared Remedial Work Plan and Report and provided monthly updates.
- Project Manager, Site Investigation, Former Aerospace Facilities, Long Island, NY Coordinated and performed soil and groundwater sampling and soil vapor studies at several aerospace manufacturing facilities on Long Island, NY. Assessments included an evaluation of past manufacturing and facility operations, storage and use of solvents, petroleum and manufacturingderived wastes, and impacts to soils, soil vapor, and groundwater. Areas of concern were identified for further evaluation and/or corrective action.

- Engineering and Environmental Science

- Project Manager. Municipal Landfill Town of East Hampton, NY Monitoring, Coordinated and performed long term groundwater monitoring at two closed Town of East Hampton, NY municipal landfills, including the sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and regulatory reporting in accordance with NYSDEC Part 363 (formerly Part 360) requirements.
- Project Manager, Site Investigation, Former agricultural facilities, Long Island, NY Coordinated and performed soil and groundwater investigations at various agricultural and horticultural properties to evaluate impacts of past herbicide and pesticide usage on the underlying soil and groundwater.
- Program Manager, Municipal Landfill Gas Monitoring, Town of East Hampton, NY Managed and performed routine methane monitoring at two Town of East Hampton landfills for compliance with NYSDEC requirements and to evaluate potential offsite migration to the surrounding community. Monitored indoor air with a flame ionization detector (FID) to evaluate impacts to buildings.
- Hydrogeologist, Groundwater Modeling, Town of East Hampton, NY Assisted with groundwater flow modeling for the Springs-Fireplace Road Landfill to evaluate the nature and extent of the landfill plume, its likely downgradient extent, and its fate.
- Program Manager, Petroleum Release Sites, Various NYC, Long Island and Westchester County Coordinated and performed onsite and offsite monitoring at petroleum release sites on Long Island, the New York metropolitan area, and in Westchester County in accordance with NYSDEC Spill program requirements. The monitoring programs generally included sampling multi-depth monitoring well networks utilizing lowflow sampling techniques, analysis/interpretation of analytical and hydrogeologic data, and regulatory reporting.
- Project Manager, Site Investigation, Logan International Airport, Boston, MA. Coordinated a soil and groundwater sampling program to evaluate environmental conditions at Terminal A, Logan International Airport, East Boston, Massachusetts. The program included an assessment of the current fuel hydrant system and other locations of potential environmental concern using non-destructive air vacuum



- Engineering and Environmental Science

extraction-clearing techniques combined with direct-push sampling.

- Project Manager, Site Investigation, Pyrotechnics Facility, Suffolk County, NY. Managed and performed a soil and groundwater investigation, a remedial soil excavation, and groundwater monitoring at a pyrotechnics manufacturing facility in Suffolk County, NY. The work was performed under the direction of the Suffolk County Department of Health Services (SCDHS) to investigate and remediate contamination from historic use of perchloratecontaining materials at the facility.
- Project Manager, Site Investigation, • Automobile Franchise, Westchester County, NY. Coordinated and performed soil. groundwater and soil vapor investigations at several automobile dealerships in Westchester County, NY to evaluate potential impacts from petroleum and chemical solvent storage and usage and onsite waste water disposal systems.
- Project Manager, Site, Investigation, Former Mercury Thermometer Manufacturing Facility, Queens, NY. Coordinated and performed soil and soil vapor intrusion study at a former mercury thermometer manufacturing facility situated in a mixed industrial and residential area. Assessments included an evaluation of past manufacturing and facility operations, storage and use of mercury, manufacturing-derived wastes, and impacts to soils and soil vapor Areas of concern were identified for further evaluation and remedial action.

Phase I Environmental Site Assessments

• Project Manager, Various Northeastern and Mid-Atlantic States. Performed numerous Phase I Environmental Site Assessments (ESAs) for commercial and industrial properties throughout the Northeastern and Mid-Atlantic States for various clients including trucking companies, major airlines, telecommunication companies, chemical/ petroleum storage facilities, aerospace manufacturing facilities, machine shops, retail shopping centers, auto dealerships and service stations.

Remediation

• Project Manager, Remediation, Former Landfill, Suffolk County, NY. Managed remedial activities at a NY State Environmental Restoration Program (ERP) Site situated at a former hospital landfill in Northport, NY. Responsibilities contractor management and oversight, soil disposal management, confirmatory testing, data review, and preparation of remedial work plan and final engineering report for remedial activities.

- Project Manager, Remediation AS/SVE, Various Sites, NYC and Long Island. Performed pilot testing, design, installation and procurement of numerous multi-depth soil vapor extraction (SVE) and air sparge (AS) remediation systems on Long Island and in the NYC metropolitan area to remediate chlorinated solvents and petroleum. Conducted remediation system operation and maintenance, and evaluations of system performance.
- Project Manager, Remediation UIC Structures, Nassau and Suffolk County, NY. Performed numerous storm water and sanitary leaching structure (UIC) cleanouts utilizing excavation and/or vacuum assisted equipment to remove contaminated sediments and liquids. Conducted waste characterization and profiling, pipe camera surveys, and structure locating utilizing water-soluble dyes and electronic locating equipment.
- Project Manager, Remediation Sub-Slab Depressurization Systems, NYC, Nassau and Suffolk Counties, NY. Conceptually designed and oversaw the installation of a sub- slab depressurization system (SSDS) at several commercial properties in the NYC and Long Island to mitigate chlorinated solvent impacts. SSDS monitoring was conducted to ensure proper operation and emissions compliance of with NYSDEC air discharge guidelines.
- Project Manager, Remediation System O & M, NYC and Long Island. Operated and maintained remediation systems, including SVE, groundwater pump and treat, AS, dual-phase extraction, SSDS and free-phase petroleum recovery systems.
- Project Manager, Remediation, White Plains, NY. Managed and coordinated a petroleum spill investigation to evaluate the nature and extent of a fuel oil release at an office building in White Plains, NY. The investigation included excavation and removal of a 5,000-gallon UST situated over 20 feet below grade, tightness testing of the UST and associated piping, a soil and groundwater investigation, free product utilizing vacuum-enhanced recoverv fluid recovery techniques, and coordination and reporting to the NYSDEC and Westchester County Department of Health.



- Engineering and Environmental Science

Health and Safety

- HASP and CAMP Plan Preparation, Various Sites. Prepared community air monitoring and health and safety plans for several NYSDEC inactive hazardous waste, brownfield cleanup program, volunteer cleanup program, petroleum spill, and NYC e-designation program sites
- HASP Monitoring, Various Sites. Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Calibrated and operated photoionization detectors (PID) and flame-ionization detectors (FID) for organic vapors and combustible gas indicators (CGI) for methane. Compared results applicable action levels to and took preventative/protective measures as necessary.
- CAMP Monitoring, Various Sites. Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors. Recorded observations and compared to applicable action levels. Calibrated and operated noise meters, particulate monitors, and PID/FID.
- Radiation Screening, Various Sites. Performed screening for radiation at select sites. Operated Geiger counter in different radiation modes and obtained and evaluated background readings.
- Mercury Screening. Performed screening of mercury vapor for several projects. Operated and experienced with Jerome and Lumex Mercury Vapor Analyzers.

Expert Witness/Technical Services

- Expert Witness Services, Glen Cove Waterfront Redevelopment. Provided expert witness services regarding environmental conditions and remedial procedures for redevelopment of a former industrial and commercial area in Glen Cove, NY.
- Technical Services, multiple sites, Town of Brookhaven. Provided technical services regarding environmental conditions at various commercial and residential sites within the municipality to evaluate potential compliance issues with Town code. Services included coordinating subsurface investigations, sampling of various media, methane surveys, tidal surveys, technical oversight of investigation activities.
- Technical Services, multiple sites, Town of Huntington. Provide technical review of environmental investigations and soil management plans prepared for proposed development for the Planning Division to asses if

the proposed development has been properly evaluated in accordance with Town requirements.

PFAS Experience

- Project Manager, Multiple NYSDEC and NYC VCP Sites. Provides oversight and management of several Site Management and Investigations regulatory sampling programs for which PFAS sampling has been required. Responsible for, data acquisition and interpretation, reporting, and negotiations with NYSDEC.
- Project Manager, Legal Support Services. Provide support to counsel for providing consulting services regarding PFAS contamination at a municipal airport. Services include review and assessment of analytical data, technical support and preparation of anticipated future investigative and remedial costs.

MGP Site Experience

- Field Team Leader, Property Transfer of MGP sites. Conducted soil and groundwater sampling at several Nicor MGP sites in Illinois prior to property transfer to Con Edison. Coordinated sampling crews, oversaw sampling and sample management, and implemented HASP monitoring.
- Project Manager, Geophysical Investigation at Brooklyn Union Greenpoint MGP site. Developed and implemented a geophysical investigation at an MGP site that was subject to differential settlement. Coordinated with client and subcontractors, oversaw survey activities, implemented HASP, interpreted results, and prepared a report to document the completed work.

<u>Other</u>

- **Proposal Development.** Prepare and provide detailed work scopes and cost estimates for Phase II investigations, remedial investigations, SVI Investigations, remedial system and SSDS installations, contaminated soil removal, and continued site monitoring for project planning and legal support.
- Project Manager, RCRA Closure, Nassau County, NY Coordinated RCRA closure activities and performed confirmatory sampling at a former package manufacturing and printing facility in Nassau County, NY. Project duties included preparation of a closure work plan, contractor procurement, a subsurface site investigation, rinseate sampling, and regulatory agency



- Engineering and Environmental Science

reporting and coordination, and preparation of a closure report.

- Project Manager, Former Landfill, Suffolk County, NY. Prepared a remedial design (RD) work plan for a former hospital landfill on Long Island. The RD work plan included a summary of past investigations, a materials management plan for the excavation and disposal of contaminated soils and debris, a post-excavation sampling plan, a site restoration plan, community air monitoring plan (CAMP), health and safety plan (HASP) and a quality assurance and quality control (QA/QC) plan.
- Project Manager, Air Monitoring, Nassau County, NY. Managed and performed monthly soil gas sampling and quarterly indoor air quality sampling at an elementary school in southwestern Nassau County, NY. The monitoring and associated NYSDEC reporting were performed to ensure that a gasoline groundwater plume migrating through the school property was not impacting indoor air at the school.
- Project Manager, Environmental Compliance, Multiple Sites. Performed compliance inspections to assess issues of potential environmental concern at manufacturing, aviation, trucking, retail, and not-for-profit facilities.



Engineering and Environmental Science



Mr. Bukoski is an Environmental Scientist with diversified experience in both the Federal and private sector, including groundwater and soil investigations and evaluation, soil remediation projects, soil vapor intrusion evaluation, aquifer testing and interpretation, design and management of soil and groundwater remediation projects, groundwater flow modeling, evaluation of site compliance with environmental regulations, air quality evaluations, and environmental permitting.

Functional Role	Title	Years of Experience
Field Services Manager	Environmental Scientist	21

Personal Data

Education

B.S./1998/Environmental Science/SUNY Buffalo

Registration and Certifications

Professional Geologist, NY #438 OSHA 40-hr and current 8-hr Health and Safety Training Course (1999-present) OSHA-Approved 8-hr Health and Safety Training Refresher Courses (2000-Present) OSHA-Approved 8-hr Site Safety Supervisor Training Course (2008) MTA NYC Transit Track Safety Certification National Groundwater Association Long Island Association of Professional Geologists Advanced Technologies for Natural Attenuation Certification

Employment History

1999-present	FPM Group
1991-1998	Sutherland's Office Centre
1985-1991	United States Marine Corps

Detailed Experience

PFAS/1,4 – Dioxane Evaluations

PFAS/1,4-Dioxane Evaluations Assessed PFAS and 1,4-dioxane impacts for various sites including disposal sites, manufacturing facilities, commercial businesses, and municipalities to determine human health and ecological risks and impacts. Provided consultation on the complexities and analytical challenges associated with identifying and quantifying PFAS in different matrices and materials. Evaluated impacts within various media including groundwater, sediment, and soil. Determined selection of the appropriate matrices and analytical for quantifying individual PFAS methods compounds, and laboratories capable of these assessments. Performed numerous investigations involving testing of various media to determine the presence of contaminants and fate and transport of contaminants in groundwater. Performed sampling and analytical methods for low-level detection, source zone characterization, and analysis of contaminant plumes. Assessed site specific groundwater hydrogeology and developed models to characterize the movement and behavior of contaminant plumes and evaluate PFAS transport under various potential environmental conditions. Performed data management solutions to trend PFAS data and represent findings. Reviewed and validated monitoring data. Evaluated the potential impact of PFAS on sources of municipal drinking water. Evaluated the selection, implementation, and outcome of proposed and existing PFAS remediation activities. Developed and implemented quality assurance project plans and sample analysis plans for collection of environmental samples for evaluation of PFAS compounds, including steps during sampling and analysis to prevent crosscontamination and ensure accurate quantification. Assessed the capabilities and methods of commercial laboratories for analyzing PFAS in environmental samples. Managed projects in accordance with appropriate PFAS regulations, guidelines, and advisories. Performed feasibility studies to evaluate the cost and effectiveness of different remediation options based on site characteristics, contaminant levels, and goals. Determined remedy options and designs. Designed and implemented optimized long-term monitoring strategies.

Site Investigations

- Performed Phase I Environmental Site Assessments and Phase II Investigations for numerous sites in New York State, including commercial buildings, aerospace facilities, former research and development facilities, and large manufacturing plants.
- Provided oversight and coordination for ongoing investigation and remedial projects at numerous New York State Inactive Hazardous Waste Disposal



(Superfund) Sites, Voluntary Cleanup Program (VCP) Sites, and Brownfield Cleanup Program (BCP) Sites. Investigations included Site Characterization (SC), Remedial Investigation/ Feasibility Studies (RI/FS), and RCRA Facility Investigations. Remedial services have included contaminated soil removals; UIC closures, ORC and HRC injections; design, installation and operation of air sparge/soil vapor extraction (AS/SVE) systems; sub-slab depressurization systems (SSDS) and, capping.

- Managed site investigation activities, including soil vapor and air sampling, soil sampling and analysis, groundwater sampling and analysis, and geotechnical evaluation for numerous sites in New York State in support of negotiations for property purchases and redevelopment.
- Investigated several petroleum-contaminated spill sites at Griffiss AFB, Rome, NY. Performed soil and groundwater sampling via Geoprobe, installed groundwater wells for monitoring and assessment of attenuation. Proposed remediation technologies for soil and groundwater contamination. Analyzed chemical data and prepared Site Investigation (SI) Reports and closure reports.
- Investigated several chlorinated solventcontaminated sites at Griffiss AFB, Rome, NY. Performed aquifer testing to establish direction of groundwater flow. Collected groundwater samples and analyzed the chemical data to identify the constituents of concern. Proposed remediation technologies for groundwater contamination.
- Supervised drilling installation, development, and sampling of monitoring wells at numerous sites throughout New York State. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared investigation reports identifying site history, contaminant characteristics, sampling methods, and site-specific lithology.
- Managed landfill monitoring projects at several landfills in Suffolk County. Collected and evaluated methane and groundwater monitoring data. Prepared reports documenting monitoring results and provided recommendations regarding methane collection, stormwater runoff, capping, and other landfill management strategies.
- Performed long-term monitoring projects at several landfills at Griffiss AFB. Collected groundwater, leachate, and surface water samples. Evaluated resulting data and prepared monitoring reports for state and federal agency review.

Engineering and Environmental Science

Remediation

- Performed investigation and remedial activities at several NYSDEC BCP sites in New York City. Prepared Remedial Investigation and Remedial Work Plans; coordinated with the owner, contractors, and the NYSDEC; conducted citizen participation activities; performed waste profiles, characterization, waste and waste management; developed Site Management Plans for NYSDEC approval.
- Performed waste characterization of a 90,000-cy construction soil stockpile at a municipal sewer facility. Responsibilities included development and implementation of Sampling and Analysis Plan (SAP), evaluation of lab data, preparation of Field Sampling Summary Reports (FSSR), coordination with disposal facilities, and preparation of waste profiles.
- Developed pilot test plans, evaluated pilot test results, and prepared conceptual designs for several air sparge/soil vapor extraction (AS/SVE) systems to treat petroleum and/or chlorinated solvent VOCs. Provided construction oversight for system installation. Performed routine system operation monitoring and evaluated system performance. Prepared system installation and monitoring reports.
- Assisted in the design of a soil remediation plan and performed construction and soil remediation oversight for a metal parts plating and manufacturing facility in Suffolk County, New York. Remediated numerous leaching pools impacted with petroleum compounds and metals. Prepared a UIC Closure Report for USEPA approval.
- Assisted in the design and oversight of indoor underground storage tank abandonment program, leaching pool remediation plan, and managed contractor support for several manufacturing facilities in Suffolk County, New York.

Hydrogeologic Evaluations

- Performed well design (gravel pack size, screen size, etc.) for numerous groundwater wells and variable depths on Long Island. Experience includes sieve analyses, well construction and development methods.
- Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer program AQTESOLV for several sites in New York City and Long Island.
- Participated in multi-day, multi-well aquifer pumping test for New York City Transit (NYCT). Responsible for operating and maintaining data logging equipment, coordinating manual water level measurements, and analyzing resulting drawdown data.



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- Performed water level and water quality monitoring at several sites in Nassau and Suffolk Counties. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration.
- Supervised drilling, installation and development of groundwater monitoring wells at three sites within Griffiss AFB, NY and numerous sites in New York City and Long Island. Performed aquifer testing and constructed groundwater elevation contour maps to delineate plumes and predict contaminant plume migration.

Landfills

- Managed ongoing groundwater and methane monitoring programs for Town of East Hampton landfills. Responsibilities included field team coordination, communications with the Town, report scheduling, data package review, and report preparation for distribution to the client and NYSDEC.
- Managed and conducted quarterly methane monitoring at Springs-Fireplace Road and Montauk Landfills for the Town of East Hampton. Tabulated evaluated resulting data. historic methane monitoring results, and recommended appropriate actions including methane monitorina well installations and a methane extraction system. Performed off-site methane monitoring on private property confirm methane containment. Prepared quarterly monitoring reports for submittal to the Town and NYSDEC.
- Performed monthly methane monitoring and prepared monitoring reports for all Town of Islip Landfills. Monitoring program included onsite and offsite methane wells, methane collection systems, and flare systems. Data was recorded electronically and downloaded to computer for formatting prior to delivery to Town. Prepared monthly monitoring reports for submittal to the Town and NYSDEC.
- Produced quarterly and annual monitoring reports for all monitoring programs at Town of Smithtown landfill. Project included tabulation and reporting of groundwater and methane monitoring data, solid waste and recycling collection data, yard waste composting operations, and landfill leachate collection and disposal data.

Water Quality Monitoring

- Conducted groundwater monitoring for the Town of Riverhead, including sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and monitoring reporting in accordance with NYSDEC requirements. Responsibilities including sampling, communications with the Town, laboratory data package review, and report preparation for distribution to the client and NYSDEC.
- Conducted investigation and remedial projects at several New York State BCP Sites. Tasks included contaminated soil removal, groundwater remediation and long-term monitoring, groundwater plume evaluation, and preparation and submittal of annual reports to the NYSDEC.
- Coordinated and performed onsite and offsite groundwater monitoring at various petroleum release sites on Long Island, the New York metropolitan area and in Westchester County in accordance with NYSDEC requirements. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared work plans identifying site history, contaminant characteristics, sampling methods, and site-specific lithology. Monitoring programs generally included installation and sampling of a multi-depth monitoring well network utilizing standard or low flow sampling techniques, analysis and interpretation of analytical and hydrogeologic data, and reporting.
- Performed water level and water quality monitoring at an industrial site in Mattituck, NY. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration. Prepared reports, coordinated with the property owner and NYSDEC, and developed a closure plan.
- Conducted numerous investigations and remediation of contaminated cesspool and stormwater drain pool systems in Nassau and Suffolk County. Fully conversant with County regulations for investigation and cleanup of leaching pool systems, including Action Levels and Cleanup Standards, groundwater monitoring criteria, and remedial requirements.



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Griffiss Air Force Base

 Conducted several Site Investigations for AFCEE. Performed soil and groundwater sampling, aquifer testing, and recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Roslyn Air National Guard Station

 Conducted several Site Investigations for Roslyn ANGS base closure work. Performed soil and groundwater sampling, aquifer testing, and mold evaluations. Prepared reports documenting recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Health and Safety

- Prepared numerous health and safety plans for remediation and construction sites and served as health and safety officer at a variety of work sites.
- Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Monitoring included calibration and operation of photoionization detectors (PIDs), flameionization detectors (FIDs), dust monitors, and combustible gas indicators (CGI). Compared results to applicable action levels and undertook preventative/protective measures as necessary.

- Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors at several sites throughout New York State. Recorded observations and compared to applicable action levels. Implemented calibration and operation programs and training for noise meters, particulate monitors, PIDs, and FIDs.
- Performed screening for radiation at several sites. Operated Geiger counters in different radiation modes and compared data to background readings.

Miscellaneous Projects

- Performed unexploded ordnance evaluations and mapping for the United States Marine Corps at several munitions ranges in 29 Palms, California, and Camp Lejeune, North Carolina.
- Conducted land survey and mapping for the United States Marine Corps at several artillery ranges in 29 Palms, California and Camp LeJeune, North Carolina.





Per and Polyfluoroalkyl Substances (PFAS) Analysis

Background

PFAS compounds are a class of emerging contaminants that are generating high levels of interest and concern in the environmental community and the public at large. These compounds have a wide range of industrial uses and commercial product applications and they are present in many consumer products as well. A short list of general product categories would include industrial polymers, stain repellents, waterproofing products, surfactants, and packaging as well as aqueous film forming foams (AFFF) used for firefighting. The primary sources of PFAS releases into the environment are industrial facilities where they were used or were contained in raw material feedstocks and sites where AFFF was used for training purposes or actual firefighting. Another potentially significant source are landfills and wastewater treatment plants. PFAS compounds are highly soluble in water, chemically stable and persistent.

Regulatory Status

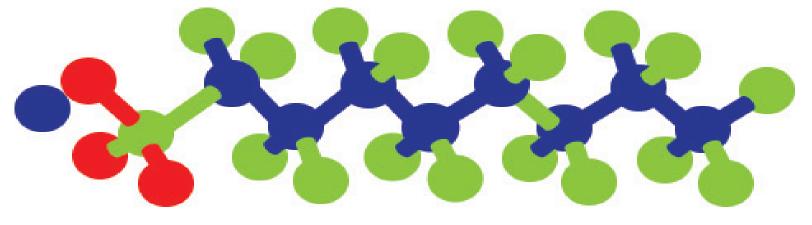
In May of 2016, the United States Environmental Protection Agency (USEPA) issued a drinking water health advisory limit (HAL) of 70ng/L (ppt) for two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS), individually or in combination. To date, the USEPA has not established a Maximum Contaminant Level (MCL) under the Safe Drinking Water Act for PFOA, PFOS, or other PFAS compounds. Some states have issued state guidelines for specific PFAS compounds.

Analytical Approach

Alpha Analytical utilizes solid phase extraction (SPE) with liquid chromatography and tandem mass spectrometry (LC/MS/MS) protocols for PFAS analysis of aqueous samples. Depending on your project application, PFAS target compound list and regulatory requirements, Alpha will either run EPA Method 537 Rev 1.1 (incorporating the EPA Technical Advisory 815-B-16-021) or a proprietary LC/MS/ MS isotope dilution technique. Isotope dilution technique incorporate a deuterated form of most of the target analytes which is spiked into every sample to act as a target-specific internal standard to normalize recoveries and assist with quantitation. Incorporation of the isotope dilution technique does somewhat attenuate for the loss of analytical certainty associated with the target compound recoveries by allowing for more accurate quantitation and increasing reproducibility.

In either case, both branched and linear PFAS isomers are properly quantified during analysis. Up to 24 PFAS compounds can be reported with a reporting limit of 2 ng/L (ppt).





Alpha Analytical has been supporting emerging contaminants monitoring programs for a long time, beginning with the IC/MS/MS analysis of perchlorate back in 2004. Later on we developed an isotope dilution procedure for the low level analysis of 1,4-dioxane and we now have LC/MS/MS capability for PFAS analysis. Alpha Analytical can analyze up to 24 PFAS compounds utilizing either EPA Method 537 or a proprietary isotope dilution procedure.

ALPHA ANALYTICAL'S LIST of 24 COMPOUNDS: Reporting Limits for all Compounds 2 ng/L (ppt)

ANALYTE	ACRONYM	CAS	EPA537	Isotope Dilution
Perfluoroalkylcarboxylic Acids (PFCAS)				
Perfluorobutanoic acid	PFBA	375-22-4		Х
Perfluoropentanoic acid	PFPeA	2706-90-3		Х
Perfluorohexanoic acid	PFHxA	307-24-4	Х	Х
Perfluoroheptanoic acid	PFHpA	375-85-9	Х	Х
Perfluorooctanoic acid	PFOA	335-67-1	Х	Х
Perfluorononanoic acid	PFNA	375-95-1	Х	Х
Perfluorodecanoic acid	PFDA	335-76-2	Х	Х
Perfluoroundecanoic acid	PFUnA	2058-94-8	Х	Х
Perfluorododecanoic acid	PFDoA	307-55-1	Х	Х
Perfluorotridecanoic acid	PFTrDA	72629-94-8	Х	Х
Perfluorotetradecanoic acid	PFTA	376-06-7	Х	X
Perfluoroalkylsulfonic Acids (PFASs)				
Perfluorobutanesulfonic acid	PFBS	375-73-5	Х	X
Perfluoropentanesulfonic acid	PFPeS	2706-91-4		X
Perfluorohexanesulfonic acid	PFHxS	355-46-4	Х	Х
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		Х
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Х	Х
Perfluorononanesulfonic acid	PFNS	68259-12-1		Х
Perfluorodecanesulfonic acid	PFDS	335-77-3		Х
Telomer Sulfonates				
1H,1H,2H,2H-perfluorohexane sulfonate (4:2)	4:2FTS	n/a		Х
1H,1H,2H,2H-perfluorooctane sulfonate (6:2)	6:2FTS	27619-97-2		Х
1H,1H,2H,2H-perfluorodecane sulfonate (8:2)	8:2FTS	39108-34-4		X
Perfluorooctanesulfonamidoacetic Acids and Sulfonamides				
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9	Х	Х
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6	Х	Х
Perfluorooctanesulfonamide	FOSA	754-91-6		Х

For more information on this topic, please contact us at info@alphalab.com or 800-624-9220 or reach out to your Alpha Analytical Project Manager or Account Service Representative.



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FPM Group NY PFAAs via LCMSMS-Isotope Dilution (SOIL)

Holding Time: 14 days Container/Sample Preservation: 1 - Plastic 8oz unpreserved

					LCS		MS		Duplicate	Surrogate	
Analyte	CAS #	RL	MDL	Units	Criteria	LCS RPD	Criteria	MS RPD	RPD	Criteria	
Perfluorobutanoic Acid (PFBA)	375-22-4	0.5	0.0227	ug/kg	71-135	30	71-135	30	30		
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.5	0.046	ug/kg	69-132	30	69-132	30	30		
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5	0.039	ug/kg	72-128	30	72-128	30	30		
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.5	0.0525	ug/kg	70-132	30	70-132	30	30		
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.5	0.0451	ug/kg	71-131	30	71-131	30	30		
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.5	0.0605	ug/kg	67-130	30	67-130	30	30		
Perfluorooctanoic Acid (PFOA)	335-67-1	0.5	0.0419	ug/kg	69-133	30	69-133	30	30		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.5	0.1795	ug/kg	64-140	30	64-140	30	30		
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5	0.1365	ug/kg	70-132	30	70-132	30	30		
Perfluorononanoic Acid (PFNA)	375-95-1	0.5	0.075	ug/kg	72-129	30	72-129	30	30		
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.5	0.13	ug/kg	68-136	30	68-136	30	30		
Perfluorodecanoic Acid (PFDA)	335-76-2	0.5	0.067	ug/kg	69-133	30	69-133	30	30		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.5	0.287	ug/kg	65-137	30	65-137	30	30		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	0.5	0.2015	ug/kg	63-144	30	63-144	30	30		
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5	0.0468	ug/kg	64-136	30	64-136	30	30		
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.5	0.153	ug/kg	59-134	30	59-134	30	30		
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5	0.098	ua/ka	67-137	30	67-137	30	30		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.5	0.0845	ug/kg	61-139	30	61-139	30	30		
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5	0.07	ug/kg	69-135	30	69-135	30	30		
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.5	0.2045	ug/kg	66-139	30	66-139	30	30		
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.5	0.054	ug/kg	69-133	30	69-133	30	30		
PFOA/PFOS, Total		0.5	0.0419	ug/kg				30	30		
Perfluoro[13C4]Butanoic Acid (MPFBA)	NONE									60-153	
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	NONE									65-182	
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	NONE									70-151	
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	NONE									61-147	
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	NONE									62-149	
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	NONE									63-166	
Perfluoro[13C8]Octanoic Acid (M8PFOA)	NONE									62-152	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	NONE									32-182	
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	NONE									61-154	
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	NONE									65-151	
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	NONE									65-150	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	NONE	1								25-186	
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	NONE	1		1						45-137	
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	NONE	1								64-158	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	NONE	1		1						1-125	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (o	NONE	1								42-136	
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	NONE	1		1						56-148	
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	NONE	1								26-160	
		1		1							
				1				1			

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NY PFAAs via LCMSMS-Isotope Dilution (WATER)

Holding Time: 14 days Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

					LCS		MS		Duplicate	Surrogate	[
Analyte	CAS #	RL	MDL	Units	Criteria	LCS RPD	Criteria	MS RPD	RPD	Criteria	1
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.408	ng/l	67-148	30	67-148	30	30		
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.396	ng/l	63-161	30	63-161	30	30		
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.238	ng/l	65-157	30	65-157	30	30		
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.328	ng/l	69-168	30	69-168	30	30		
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.2252	ng/l	58-159	30	58-159	30	30		
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.376	ng/l	69-177	30	69-177	30	30		
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.236	ng/l	63-159	30	63-159	30	30		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	1.332	ng/l	49-187	30	49-187	30	30		
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.688	ng/l	61-179	30	61-179	30	30		
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.312	ng/l	68-171	30	68-171	30	30		
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.504	ng/l	52-151	30	52-151	30	30		
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.304	ng/l	63-171	30	63-171	30	30		
1H.1H.2H.2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	1.212	ng/l	56-173	30	56-173	30	30		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	2	0.648	ng/l	60-166	30	60-166	30	30		[
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.26	ng/l	60-153	30	60-153	30	30		[
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.98	ng/l	38-156	30	38-156	30	30		i
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.58	ng/l	46-170	30	46-170	30	30		[
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.804	ng/l	45-170	30	45-170	30	30		i
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.372	ng/l	67-153	30	67-153	30	30		l
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.3272	ng/l	48-158	30	48-158	30	30		i
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.248	ng/l	59-182	30	59-182	30	30		i
PEQA/PEQS. Total		2	0.236	ng/l				30	30		i
Perfluoro[13C4]Butanoic Acid (MPFBA)	NONE	-	0.000							2-156	i
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	NONE									16-173	
Perfluoro[2.3.4-13C3]Butanesulfonic Acid (M3PFBS)	NONE									31-159	i
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	NONE									21-145	
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	NONE									30-139	i
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	NONE									47-153	[
Perfluoro[13C8]Octanoic Acid (M8PFOA)	NONE									36-149	i
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	NONE									1-244	[
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	NONE									34-146	i
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	NONE									42-146	[
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	NONE		İ	1	1			1		38-144	[
1H, 1H, 2H, 2H-Perfluoro[1, 2-13C2]Decanesulfonic Acid (M2-8	NONE	1		1	1					7-170	[
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	NONE			1	1					1-181	[
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	NONE		İ	1	1			1		40-144	[
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	NONE			1	1					1-87	[
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (o	NONE									23-146	[
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	NONE			1	1					24-161	[
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	NONE		İ	1	1			1		33-143	[
				1	1						[
		1		1	1					t	[

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Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (LC/MS/MS)

References: EPA Method 537.1, Version 2, March 2020, EPA Document #: EPA/600/R-20/006

EPA Method 533, November 2019, EPA Document #: 815-B-19-020

ISO 25101, First Edition, March 2009, Reference #: ISO 25101:2009(E)

Department of Defense, Quality Systems Manual for Environmental Laboratories, Version 5.3, 2019

1. Scope and Application

Matrices: Drinking water, Non-potable Water, Tissues, Biosolids and Soil Matrices (Drinking water is applicable for specific state regulatory requirements for this method)

Definitions: Refer to Alpha Analytical Quality Manual.

- **1.1** This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFAS) in Non-Drinking Water and soil Matrices. Accuracy and precision data have been generated in reagent water, and finished ground and surface waters and soils for the compounds listed in Table 1.
- **1.2** The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.
- **1.3** This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

2.1 A 250-mL water sample is fortified with extracted internal standards (EIS) and passed through a solid phase extraction (WAX) cartridge containing a mixed mode, Weak Anion Exchange, reversed phase, water-wettable polymer to extract the method analytes and isotopically-labeled compounds. The compounds are eluted from the solid phase in two fractions with methanol followed by a small amount of 2% ammonium hydroxide in methanol solution. The extract is concentrated with nitrogen in a heated water bath, and then adjusted to a 1-mL volume with 80:20% (vol/vol) methanol:water.

A 2-4 gram soil, solid, tissue or biosolid sample is fortified with extracted internal standards (EIS), diluted in methanol and agitated rigorously. An aliquot of the methanol is passed across an SPE based clean-up cartridge and the eluate collected. The extract is concentrated with nitrogen in a heated water bath, and then adjusted to a 1-mL volume with 80:20% (vol/vol) methanol:water.

2.2 A sample extract is injected into an LC equipped with a C18 column that is interfaced to an MS/MS). The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the isotope dilution technique. Extracted Internal Standards (EIS) analytes are used to monitor the extraction efficiency of the method analytes.

2.3 Method Modifications from Reference

None.

Table 1							
Parameter	Acronym	CAS					
PERFLUOROALKYL ETHER CARBOXYLIC ACIDS (PFECAs)							
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid	HFPO-DA	13252-13-6					
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4					
PERFLUOROALKYLCARBOXILIC ACIDS (PFCAs	5)						
Perfluorobutanoic acid	PFBA	375-22-4					
Perfluoropentanoic acid	PFPeA	2706-90-3					
Perfluorohexanoic acid	PFHxA	307-24-4					
Perfluoroheptanoic acid	PFHpA	375-85-9					
Perfluorooctanoic acid	PFOA	335-67-1					
Perfluorononanoic acid	PFNA	375-95-1					
Perfluorodecanoic acid	PFDA	335-76-2					
Perfluoroundecanoic acid	PFUnA	2058-94-8					
Perfluorododecanoic acid	PFDoA	307-55-1					
Perfluorotridecanoic acid	PFTrDA	72629-94-8					
Perfluorotetradecanoic acid	PFTA	376-06-7					
Perfluorohexadecanoic acid	PFHxDA	67905-19-5					
Perfluorooctadecanoic acid	PFODA	16517-11-6					
PERFLUOROALKYL SULFONIC ACIDS (PFASs)							
Perfluoropropanesulfonic acid	PFPrS	423-41-6					
Perfluorobutanesulfonic acid	PFBS	375-73-5					
Perfluoropentanesulfonic acid	PFPeS	2706-91-4					
Perfluorohexanesulfonic acid	PFHxS	355-46-4					
Perfluoroheptanesulfonic acid	PFHpS	375-92-8					
Perfluorooctanesulfonic acid	PFOS	1763-23-1					
Perfluorononanesulfonic acid	PFNS	68259-12-1					
Perfluorodecanesulfonic acid	PFDS	335-77-3					
Perfluorododecanesulfonic acid	PFDoS	79780-39-5					

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Table 1 Cont.

Parameter	Acronym	CAS					
CHLORO-PERFLUOROALKYLSULFONATE							
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11CI- PF3OUdS	763051-92-9					
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9CI-PF3ONS	756426-58-1					
PERFLUOROOCTANESULFONAMIDES (FOSAs)		_					
Perfluorooctanesulfonamide	PFOSA	754-91-6					
N-methylperfluoro-1-octanesulfonamide	NMeFOSA	31506-32-8					
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	4151-50-2					
TELOMER SULFONIC ACIDS							
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	4:2FTS	757124-72-4					
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	6:2FTS	27619-97-2					
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	8:2FTS	39108-34-4					
1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)	10:2FTS	120226-60-0					
PERFLUOROOCTANESULFONAMIDOACETIC ACID	S						
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9					
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6					
NATIVE PERFLUOROOCTANESULFONAMIDOETHA	NOLS (FOSEs)						
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	24448-09-7					
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	1691-99-2					
PERFLUOROETHER AND POLYETHER CARBOXYLIC ACIDS							
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1					
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5					
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7					
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6					

3. Reporting Limits

The reporting limit for PFAS's is 2 ng/L for aqueous samples (20 ng/L for HFPO-DA) and 1 ng/g (10 ng/g for HFPO-DA) for soil samples.

4. Interferences

- **4.1** PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte and EIS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.
- **4.2** Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes

Printouts of this document may be out of date and should be considered uncontrolled. To accomplish work, the published version of the document should be viewed online. Document Type: SOP-Technical Pre-Qualtrax Document ID: N/A in this method can also be found in many common laboratory supplies and equipment, such as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/3 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.1. **Subtracting blank values from sample results is not permitted.**

- **4.3** Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample.
- **4.4** SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

- **5.1** The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.
- **5.2** All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.
- **5.3** PFOA has been described as "likely to be carcinogenic to humans." Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection for Aqueous Samples

- **6.1.1** Samples must be collected in two (2) 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap.
- **6.1.2** The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.
- **6.1.3** Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

- 6.1.4 Fill sample bottles. Samples do not need to be collected headspace free.
- **6.1.5** After collecting the sample and cap the bottle. Keep the sample sealed from time of collection until extraction.
- 6.1.6 Field Reagent Blank (FRB)
 - **6.1.6.1** A FRB must be handled along with each sample set. The sample set is composed of samples collected from the same sample site and at the same time. At the laboratory, fill the field blank sample bottle with reagent water and preservatives, seal, and ship to the sampling site along with the sample bottles. For each FRB shipped, an empty sample bottle (no preservatives) must also be shipped. At the sampling site, the sampler must open the shipped FRB and pour the reagent water into the empty shipped sample bottle, seal and label this bottle as the FRB. The FRB is shipped back to the laboratory along with the samples and analyzed to ensure that PFAS's were not introduced into the sample during sample collection/handling.

The reagent water used for the FRBs must be initially analyzed for method analytes as a MB and must meet the MB criteria in Section 9.1.1 prior to use. This requirement will ensure samples are not being discarded due to contaminated reagent water rather than contamination during sampling.

6.2 Sample Collection for Soil and Sediment samples.

Grab samples are collected in polypropylene containers. Sample containers and contact surfaces containing PTFE shall be avoided.

6.3 Sample Preservation

Not applicable.

6.4 Sample Shipping

Samples must be chilled during shipment and must not exceed 10 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 10 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction, but should not be frozen.

NOTE: Samples that are significantly above 10° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.5 Sample Handling

- 6.5.1 Holding Times
 - **6.5.1.1** Water samples should be extracted as soon as possible but must be extracted within 14 days. Soil samples should be extracted within 14 days. Extracts are stored at < 10 ° C and analyzed within 28 days after extraction.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

- **7.2** SAMPLE JARS 8-ounce wide mouth high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.
- 7.3 POLYPROPYLENE BOTTLES 4-mL narrow-mouth polypropylene bottles.
- **7.4** CENTRIFUGE TUBES 50-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.
- **7.5** AUTOSAMPLER VIALS Polypropylene 0.7-mL autosampler vials with polypropylene caps.
 - **7.5.1** NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.
- **7.6** POLYPROPYLENE GRADUATED CYLINDERS Suggested sizes include 25, 50, 100 and 1000-mL cylinders.
- **7.7** Auto Pipets Suggested sizes include 5, 10, 25, 50, 100, 250, 500, 1000, 5000 and 10,000-µls.
- **7.8** PLASTIC PIPETS Polypropylene or polyethylene disposable pipets.
- **7.9** ANALYTICAL BALANCE Capable of weighing to the nearest 0.0001 g.
- **7.10** ANALYTICAL BALANCE Capable of weighing to the nearest 0.1 g.
- 7.11 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES
 - **7.11.1** SPE CARTRIDGES 0.5 g SPE cartridges containing a reverse phase copolymer characterized by a weak anion exchanger (WAX) sorbent phase.
 - **7.11.2** VACUUM EXTRACTION MANIFOLD A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB (Sect. 9.1.1).
 - 7.11.3 SAMPLE DELIVERY SYSTEM Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8" O.D. x 1/16" I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB (Sect. 9.1.1) and LCS (Sect. 9.2) QC requirements.
- **7.12** Extract Clean-up Cartridge 250 mg 6ml SPE Cartridge containing graphitized polymer carbon.
- **7.13** EXTRACT CONCENTRATION SYSTEM Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 65 °C.
- **7.14** LABORATORY OR ASPIRATOR VACUUM SYSTEM Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

- 7.15 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM
 - **7.15.1** LC SYSTEM Instrument capable of reproducibly injecting up to 10-µL aliquots, and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.4 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.
 - **7.15.2** LC/TANDEM MASS SPECTROMETER The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.4 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.
 - **7.15.3** DATA SYSTEM An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.
 - **7.15.4** ANALYTICAL COLUMN An LC BEH C_{18} column (2.1 x 50 mm) packed with 1.7 μ m d_p C_{18} solid phase particles was used. Any column that provides adequate resolution, peak shape, capacity, accuracy, and precision (Sect. 9) may be used.

8. Reagents and Standards

- **8.1** GASES, REAGENTS, AND SOLVENTS Reagent grade or better chemicals must be used.
 - **8.1.1** REAGENT WATER Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/3 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.
 - **8.1.2** METHANOL (CH₃OH, CAS#: 67-56-1) High purity, demonstrated to be free of analytes and interferences.
 - **8.1.3** AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) High purity, demonstrated to be free of analytes and interferences.
 - **8.1.4** ACETIC ACID (H₃CCOOH, CAS#: 64-19-7) High purity, demonstrated to be free of analytes and interferences.

- **8.1.5** 1M AMMONIUM ACETATE/REAGENT WATER High purity, demonstrated to be free of analytes and interferences.
- **8.1.6** 2mM AMMONIUM ACETATE/METHANOL:WATER (5:95) To prepare, mix 2 ml of 1M AMMONIUM ACETATE,1 ml ACETIC ACID and 50 ml METHANOL into I Liter of REAGENT WATER.
- **8.1.7** Methanol/Water (80:20) To prepare a 1 Liter bottle, mix 200 ml of REAGENT WATER with 800 ml of METHANOL.
- **8.1.8** AMMONIUM HYDROXIDE (NH₃, CAS#: 1336-21-6) High purity, demonstrated to be free of analytes and interferences.
- **8.1.9** Sodium Acetate (NaOOCCH₃, CAS#: 127-09-3) High purity, demonstrated to be free of analytes and interferences.
- **8.1.10** 25 mM Sodium Acetate Buffer To prepare 250mls, dissolve .625 grams of sodium acetate into 100 mls of reagent water. Add 4 mls Acetic Acid and adjust the final volume to 250 mls with reagent water.
- **8.1.11** NITROGEN Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).
- **8.1.12** ARGON Used as collision gas in MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.
- **8.2** STANDARD SOLUTIONS When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte and IS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

NOTE: Stock standards and diluted stock standards are stored at ≤ 4 °C.

- 8.2.1 ISOTOPE DILUTION Extracted Internal Standard (ID EIS) STOCK SOLUTIONS
 ID EIS stock standard solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration of 1000 ng/mL.
- 8.2.2 ISOTOPE DILUTION Extracted Internal Standard PRIMARY DILUTION STANDARD (ID EIS PDS) Prepare the ID EIS PDS at a concentration of 500 ng/mL. The ID PDS is prepared in methanol. The ID PDS is stable for 1 year when stored at ≤4 °C (table 2a).

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Vol. of EIS Stock (mL)	Final Vol. of EIS PDS (mL)	Final Conc. of EIS PDS (ng/mL)
M4PFBA	1000	1.0	2.0	500
M5PFPeA	1000	1.0	2.0	500
M5PFHxA	1000	1.0	2.0	500
M4PFHpA	1000	1.0	2.0	500
M8PFOA	1000	1.0	2.0	500
M9PFNA	1000	1.0	2.0	500
M6PFDA	1000	1.0	2.0	500
M7PFUdA	1000	1.0	2.0	500
MPFDoA	1000	1.0	2.0	500
M2PFTeDA	1000	1.0	2.0	500
M2PFHxDA	50,000	.02	2.0	500
M8FOSA	1000	1.0	2.0	500
d3-N-MeFOSAA	1000	1.0	2.0	500
d5-N-EtFOSAA	1000	1.0	2.0	500
M3PFBS	929	1.0	2.0	464.5
M3PFHxS	946	1.0	2.0	473
M8PFOS	957	1.0	2.0	478.5
M2-4:2FTS	935	1.0	2.0	467.5
M2-6:2FTS	949	1.0	2.0	474.5
M2-8:2FTS	958	1.0	2.0	479
M2,D4-10:2FTS	50,000	.04	2.0	1000
M3HFPO-DA	50,000	.4	2.0	10,000

Table 2a

Table 2b

Isotope Labeled	Conc. of EIS	Vol. of EIS Stock	Final Vol. of EIS	Final Conc. of
Standard	Stock (ng/mL)	(mL)	PDS (mL)	EIS PDS (ng/mL)
d3-N-MeFOSA	50,000	.2	2.0	5000
d5-N-EtFOSA	50,000	.2	2.0	5000
d7-N-MeFOSE	50,000	.2	2.0	5000
d9-N-EtFOSE	50,000	.2	2.0	5000

- **8.2.3** ANALYTE STOCK STANDARD SOLUTION Analyte stock standards are stable for at 1 year when stored at 4 °C. When using these stock standards to prepare a PDS, care must be taken to ensure that these standards are at room temperature and adequately vortexed.
- **8.2.4** Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only. ANALYTE PRIMARY SPIKING STANDARD Prepare the spiking standard at a concentration of 500 ng/mL in methanol. The spiking standard is stable for at least two months when stored in polypropylene centrifuge tubes at room temperature.

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Table 3							
Analyte	Conc. of	Vol. of Stock	Final Vol. of PDS	Final Conc. of PDS			
-	Stock (ng/mL)	(mL)	(mL)	(ng/mL)			
PFBA	1000	1	2	500			
PFPeA	1000	1	2	500			
PFHxA	1000	1	2	500			
PFHpA	1000	1	2	500			
PFOA	1000	1	2	500			
PFNA	1000	1	2	500			
PFDA	1000	1	2	500			
PFUnA	1000	1	2	500			
PFDoA	1000	1	2	500			
PFTrDA	1000	1	2	500			
PFTA	1000	1	2	500			
FOSA	1000	1	2	500			
Br-NMeFOSAA	240	1	2	500			
L-NMeFOSAA	760	1	2	500			
Br-NEtFOSAA	225	1	2	500			
L-NEtFOSAA	775	1	2	500			
L-PFBS	887	1	2	443.5			
L-PFPeS	941	1	2	470.5			
L-PFHxSK	741	1	2	370.5			
Br-PFHxSK	173	1	2	86.5			
L-PFHpS	953	1	2	476.5			
L-PFOSK	732	1	2	366			
Br-PFOSK	196	1	2	98			
L-PFNS	962	1	2	481			
L-PFDS	965	1	2	482.5			
4:2FTS	937	1	2	468.5			
6:2FTS	951	1	2	475.5			
8:2FTS	960	1	2	480			
9CIPF3ONS	933	1	2	466.5			
11CIPF3OUdS	943	1	2	471.5			
ADONA	945	1	2	472.5			
HFPO-DA	1000	1	2	500			

8.2.5 Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only.

Analyte	Conc. of IS	Vol. of IS Stock	Final Vol. of IS PDS	Final Conc. of IS
	Stock (ng/mL)	(mL)	(mL)	PDS (ng/mL)
PFHxDA	50,000	0.04	4	500
PFODA	50,000	0.04	4	500
HFPO-DA	100,000	0.04	4	9500
10:2-FTS	48,300	0.04	4	482.3
PFDoS	48,400	0.04	4	484.1
PFPrS	45,800	0.04	4	457.8
PFMPA	50,000	0.04	4	500
PFMBA	50,000	0.04	4	500
PFEESA	44,500	0.04	4	444.8
NFDHA	50,000	0.04	4	500
NMeFOSA	50,000	0.4	4	5000
NMeFOSE	50,000	0.4	4	5000
NEtFOSA	50,000	0.4	4	5000
NEtFOSE	50,000	0.4	4	5000

Table 4

- **8.2.6** LOW, MEDIUM AND HIGH LEVEL LCS The LCS's will be prepared at the following concentrations and rotated per batch; 2 ng/L, 40 ng/L, 500 ng/l for drinking waters. The analyte PDS contains all the method analytes of interest at various concentrations in methanol. The analyte PDS has been shown to be stable for six months when stored at ≤4 °C.
- **8.2.7** Isotope Dilution Labeled Recovery Stock Solutions (ID REC) ID REC Stock solutions are stable for at least 1 year when stored at 4 °C. The stock solution is purchased at a concentration of 2000 ng/mL.
- **8.2.8** Isotope Dilution Labeled Recovery Primary Dilution Standard (ID REC PDS) Prepare the ID REC PDS at a concentration of 500 ng/mL. The ID REC PDS is prepared in methanol. The ID REC PDS is stable for at least 1 year when stored in polypropylene centrifuge tubes at ≤4 °C.

Analyte	Conc. of REC Stock (ng/mL)	Vol. of REC Stock (mL)	Final Vol. of REC PDS (mL)	Final Conc. of REC PDS (ng/mL)
M2PFOA	2000	1	4	500
M2PFDA	2000	1	4	500
M3PFBA	2000	1	4	500
M4PFOS	2000	1	4	500

Table 5

8.2.9 CALIBRATION STANDARDS (CAL) -

Current Concentrations (ng/mL): 0.5, 1.0, 5.0, 10.0, 50.0, 125, 150, 250, 500

Prepare the CAL standards over the concentration range of interest from dilutions of the analyte PDS in methanol containing 20% reagent water. 20 μ l of the EIS PDS and REC PDS are added to the CAL standards to give a constant concentration of 10 ng/ml. The lowest concentration CAL standard must be at or

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below the RL (2 ng/L), which may depend on system sensitivity. The CAL standards may also be used as CCVs (Sect. 9.8). To make calibration stock standards:

Calibration Standard Concentration	Final Aqueous Cal STD Level Concentration	Final Soil Cal STD Level Concentration	30 compound stock added (ul)	Individual analyte Stocks added (ul)	500 ng/ml dilution added (ul)	Final Volume in MeOH/H₂O (82:20)
.5 ng/ml	2 ng/L	.25 ng/g	6.25		25	25 mls
1 ng/ml	4 ng/L	.5 ng/g	5		20	10 mls
5 ng/ml	20 ng/L	1 ng/g	25		100	10 mls
10 ng/ml	40 ng/L	5 ng/g	125	5		25 mls
50 ng/ml	200 ng/L	25 ng/g	250	10		10 mls
125 ng/ml	500 ng/L	62.5 ng/g	625	25		10 mls
150 ng/ml	600 ng/L	75 ng/g	750	30		10 mls
250 ng/ml	1000 ng/L	125 ng/g	625			5 mls
500 ng/ml	2000 ng/L	250 ng/g	1250			5 mls

Table 6

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

- **9.1.1 METHOD BLANK (MB)** A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. Prep and analyze a MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination, and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that interfere with the measurement of method analytes must be below the RL. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch. Because background contamination is a significant problem for several method analytes, it is highly recommended that the analyst maintains a historical record of MB data.
- **9.1.2 FIELD REAGENT BLANK (FRB)** The purpose of the FRB is to ensure that PFAS's measured in the Field Samples were not inadvertently introduced into the sample during sample collection/handling. Analysis of the FRB is required only if a Field Sample contains a method analyte or analytes at or above the RL. The FRB is processed, extracted and analyzed in exactly the same manner as a Field Sample.

9.2 Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicates (LCSD)

9.2.1 An LCS is required with each extraction batch. The fortified concentration of the LCS may be rotated between low, medium, and high concentrations from batch to batch. Default limits of 50-150% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation:

Where:

- A = measured concentration in the fortified sample B =fortification concentration.
- **9.2.2** Where applicable, in the absence of additional sample volume required to perform matrix specific QC, LCSD's are to be extracted and analyzed. The concentration and analyte recovery criteria for the LCSD must be the same as the batch LCS The RSD's must fall within ≤30% of the true value for medium and high level replicates, and ≤50% for low level replicates. Calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \underline{|LCS - LCSD|}_{(LCS + LCSD)/2} \times 100$$

9.2.3 If the LCS and or LCSD results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.3 Labeled Recovery Standards (REC)

The analyst must monitor the peak areas of the REC(s) in all injections during each analysis day.

9.4 Extracted Internal Standards (EIS)

9.4.1 The EIS standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The EIS is a means of assessing method performance from extraction to final chromatographic measurement. Calculate the recovery (%R) for the EIS using the following equation:

Where:

- A = calculated EIS concentration for the QC or Field Sample
- B = fortified concentration of the EIS.

9.4.2 Default limits of 50-150% may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. A low or high percent recovery for a sample, blank, or CCV does not require discarding the analytical data but it may indicate a potential problem with future analytical data. When EIS recovery from a sample, blank, or CCV are outside control limits, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4) instrument performance. For CCVs and QC elements spiked with all target analytes, if the recovery of the corresponding target analytes meet the acceptance criteria for the EIS in question, the data can be used but all potential biases in the recovery of the EIS must be documented in the sample report. If the associated target analytes do not meet the acceptance criteria, the data must be reanalyzed.

9.5 Matrix Spike (MS)

- **9.5.1** Analysis of an MS is required in each extraction batch and is used to determine that the sample matrix does not adversely affect method accuracy. Assessment of method precision is accomplished by analysis of a Field Duplicate (FD) (Sect. 9.6); however, infrequent occurrence of method analytes would hinder this assessment. If the occurrence of method analytes in the samples is infrequent, or if historical trends are unavailable, a second MS, or MSD, must be prepared, extracted, and analyzed from a duplicate of the Field Sample. Extraction batches that contain MSDs will not require the extraction of a field sample duplicate. If a variety of different sample matrices are analyzed regularly, for example, drinking water from groundwater and surface water sources, method performance should be established for each. Over time, MS data should be documented by the laboratory for all routine sample sources.
- **9.5.2** Within each extraction batch, a minimum of one Field Sample is fortified as an MS for every 20 Field Samples analyzed. The MS is prepared by spiking a sample with an appropriate amount of the Analyte Stock Standard (Sect. 8.2.3). Use historical data and rotate through the low, mid and high concentrations when selecting a fortifying concentration. Calculate the percent recovery (%*R*) for each analyte using the equation:

$$%R = (A - B) \times 100$$

Where:

- *A* = measured concentration in the fortified sample
- *B* = measured concentration in the unfortified sample
- C = fortification concentration.
- **9.5.3** Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 50-150%. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCS, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.6 Laboratory Duplicate

- **9.6.1** FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.
- **9.6.2** Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation:

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

- **9.6.3** RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.
- **9.6.4** If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \frac{|MS - MSD|}{(MS + MSD) / 2} \times 100$$

9.6.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCSD where applicable, the result is judged to be matrix biased. If no LCSD is present, the associated MS and MSD are to be re-analyzed to determine if any analytical has occurred. If the resulting RPDs are still outside control limits, the result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Initial Calibration Verification (ICV)

9.7.1 After each ICAL, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ± 30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedure to locate and correct the problem.

9.8 Continuing Calibration Verification (CCV)

9.8.1 CCV Standards are analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch. See Section 10.11 for concentration requirements and acceptance criteria.

9.9 Method-specific Quality Control Samples

None

9.10 Method Sequence

- CCV-LOW
- MB
- LCS
- LCSD (where applicable)
- MS
- Duplicate or MSD
- Field Samples (1-10)
- CCV-MID
- Field Samples (11-20)
- CCV-LOW

10. Procedure

10.1 Equipment Set-up

- **10.1.1** This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements (Sect. 9.1).
- **10.1.2** Some of the PFAS's adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent (Sect 10.3.4) whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected (Sect. 10.3.4).
- **10.1.3 NOTE:** The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.2 Sample Preparation and Extraction of Aqueous Samples

10.2.1 Samples are preserved, collected, and stored as presented in Section 6.

The entire sample that is received must be sent through the SPE cartridge. In addition, the bottle must be solvent rinsed and this rinse must be sent through the SPE cartridge as well. The method blank (MB) and laboratory control sample (LCS) must be extracted in the same manner (i.e., must include the bottle solvent rinse). It should be noted that a water rinse alone is not sufficient. This does not apply to samples with high concentrations of PFAS that are prepared using serial dilution and not SPE.

10.2.2 Determine sample volume. Weigh all samples to the nearest 1g. If visible sediment is present, centrifuge and decant into a new 250mL HDPE bottle and record the weight of the new container.

NOTE: Some of the PFAS's adsorb to surfaces, thus the sample volume may NOT be transferred to a graduated cylinder for volume measurement.

- **10.2.3** The MB, LCS and FRB may be prepared by measuring 250 mL of reagent water with a polypropylene graduated cylinder or filling a 250-mL sample bottle to near the top.
- **10.2.4** Adjust the QC and sample pH to 3 by adding acetic acid in water dropwise.
- **10.2.5** Add 20 μL of the EIS PDS (Sect. 8.2.2) to each sample and QC, cap and invert to mix.
- **10.2.6** If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.4). Cap and invert each sample to mix.

10.3 Cartridge SPE Procedure

- 10.3.1 CARTRIDGE CLEAN-UP AND CONDITIONING DO NOT allow cartridge packing material to go dry during any of the conditioning steps. Rinse each cartridge with 3 X 5 mL of 2% ammonium hydroxide in methanol, followed by 5mls of methanol. Next, rinse each cartridge with 5 mls of the 25 mM acetate buffer, followed by 15 mL of reagent water, without allowing the water to drop below the top edge of the packing. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Add 4-5 mL of reagent water to each cartridge, attach the sample transfer tubes (Sect. 7.11.3), turn on the vacuum, and begin adding sample to the cartridge.
- **10.3.2** SAMPLE EXTRACTON Adjust the vacuum so that the approximate flow rate is approximately 4 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.
- **10.3.3** SAMPLE BOTTLE AND CARTRIDGE RINSE After the entire sample has passed through the cartridge, rinse the sample bottles with 4 ml reagent water followed by 4 ml 25 mM acetate buffer at pH 4 and draw the aliquot through the sample transfer tubes and the cartridges. Draw air or nitrogen through the cartridge for 5-10 min at high vacuum (10-15 in. Hg). NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the entire sample has passed through the cartridge, the reservoirs must be rinsed to waste with reagent water.

10.3.4 SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 1 – Turn off and release the vacuum. Lift the extraction manifold top and insert a rack with collection tubes into the extraction tank to collect the extracts as they are eluted from the cartridges. Rinse the sample bottles with 12 mls of methanol and draw the aliquot through the sample transfer tubes and cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

NOTE: Due to the possible volatility and suspect degradation of sulfonamides and sulfonamide ethanols when exposed to heat, a portion of the methanol fraction may be retained and analyzed independently with no evaporation for these analytes.

SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 2 In a separate collection vial, rinse the sample bottles with 12 mL of 2% ammonium hydroxide in methanol and elute the analytes from the cartridges by pulling the 4 mL of methanol through the sample transfer tubes and the cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the reservoirs have been rinsed in Section 10.3.3, the elution solvent used to rinse the sample bottles must be swirled down the sides of the reservoirs while eluting the cartridge to ensure that any method analytes on the surface of the reservoirs are transferred to the extract.

CLEAN-UP CARTRIDGE ELUTION, Elute the clean-up cartridge with 8 additional mls of methanol and draw the aliquot through the cartridge. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

10.3.5 Fractions 1 and 2 are to be combined during the concentration stage (section 10.8).

10.4 Sample Prep and Extraction Protocol for Soils, Solids and Sediments.

- **10.4.1** Homogenize and weigh 4 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 4 grams of clean sand is used.
- **10.4.2** Add 40 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC.
- **10.4.3** If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.6). Cap and invert each sample to mix.
- **10.4.4** To all samples, add 10 mls of methanol, cap, vortex for 25 seconds at 2500 RPM.
- **10.4.5** Following mixing, sonicate each sample for 30 minutes and let samples sit overnight (at least 2 hours is required for RUSH samples).
- **10.4.6** Centrifuge each sample at 3500RPM for 10 minutes.
- **10.4.7** Remove 5ml of supernatant, and reserve for clean-up.

10.5 Sample Prep and Extraction Protocol for Tissues, Oils and Biosolids.

- **10.5.1** Homogenize and weigh 2-8 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 4 grams of clean sand is used.
- **10.5.2** Add 40 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC.

- **10.5.3** If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.6). Cap and invert each sample to mix.
- **10.5.4** Add 100 ul of Ammonium Hydroxide.
- **10.5.5** To all samples, add 10 mls of methanol, cap, vortex for 25-30 seconds at 2500 RPM.
- **10.5.6** Following mixing, sonicate each sample for 30 minutes and let samples sit for 2 hours.
- **10.5.7** Centrifuge each sample at 3500RPM for 10 minutes.
- **10.5.8** Remove 5 mls of the supernatant, and reserve for clean-up.

10.6 Extract Clean-up: Soils, Solids and Sediment Matrices

- **10.6.1** CARTRIDGE CLEAN-UP AND CONDITIONING –. Rinse each cartridge with 15 mL of methanol and discard. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Attach the sample transfer tubes (Sect. 7.11.3), turn on the vacuum, and begin adding sample to the cartridge. For Soils extracts, transfer 5 mls of the MeOH eluate to the cartridge. Samples should be allowed to pass through the cartridge by gravity feed at a dropwise rate to ensure adequate contact time with the cartridge sorbent. Vacuum is only to applied if the flow of solvent through the cartridge stops.
- **10.6.2** Adjust the vacuum so that the approximate flow rate is 1-2 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.
- **10.6.3** SAMPLE BOTTLE AND CARTRIDGE RINSE After the entire sample has passed through the cartridge, rinse the sample collection vial with two 4-mL aliquots of methanol and draw each aliquot through the cartridges. Draw air or nitrogen through the cartridge for 5 min at high vacuum (10-15 in. Hg).
- **10.6.4** If extracts are not to be immediately evaporated, cover collection tubes and store at ambient temperature till concentration.

NOTE: Due to the possible volatility and suspect degradation of sulfonamides and sulfonamide ethanols when exposed to heat, a portion of the eluate may be retained and analyzed independently with no evaporation for these analytes.

10.7 Extract Clean-up: Tissues, Oils and Biosolids

- **10.7.1** CARTRIDGE CLEAN-UP AND CONDITIONING –. Stack a 500 mg WAX cartridge onto a 250 mg GCB cartridge. Rinse each cartridge set with 10 mL of 2% NH₄OH and discard. Immediately rinse each cartridge stack with 15 mls MeOH and discard, If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Attach the sample transfer tubes (Sect. 7.11.3), turn on the vacuum.
- **10.7.2** Adjust the vacuum so that the approximate flow rate is 1-2 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.
- **10.7.3** SAMPLE elution AND CARTRIDGE RINSE Load 5 mls of the MeOH sample extract to the cartridge. After the entire sample has passed through the cartridge, rinse the cartridges with 5-mLs of methanol and draw through the cartridges. Immediately add and elute 2 5ml aliquots of 2% NH₄OH to the cartridges, collecting the eluate with the MeOH eluate.

If extracts are not to be immediately evaporated, cover collection tubes and store at ambient temperature till concentration.

NOTE: Due to the possible volatility and suspect degradation of sulfonamides and sulfonamide ethanols when exposed to heat, a portion of the eluate may be retained and analyzed independently with no evaporation for these analytes.

10.8 Extract Concentration

10.8.1 Concentrate the extract to dryness under a gentle stream of nitrogen in a heated water bath (60-65 °C) to remove all the water/methanol mix. Add the appropriate amount of 80:20% (vol/vol) methanol:water solution and 20 µl of the ID REC PDS (Sect. 8.2.8) to the collection vial to bring the volume to 1 mL and vortex. Transfer two aliquots with a plastic pipet (Sect. 7.8) into 2 polypropylene autosampler vials.

NOTE: It is recommended that the entire 1-mL aliquot not be transferred to the autosampler vial because the polypropylene autosampler caps do not reseal after injection. Therefore, do not store the extracts in the autosampler vials as evaporation losses can occur occasionally in these autosampler vials. Extracts can be split between 2 X 700 μ l vials (Sect. 7.5).

10.9 Sample Volume Determination

- **10.9.1** If the level of the sample was marked on the sample bottle, use a graduated cylinder to measure the volume of water required to fill the original sample bottle to the mark made prior to extraction. Determine to the nearest 10 mL.
- **10.9.2** If using weight to determine volume, weigh the empty bottle to the nearest 10 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight (Sect. 10.2.2). Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration (Sect. 11.2).
- **10.10 Initial Calibration -** Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.
 - 10.10.1 ESI-MS/MS TUNE
 - **10.10.1.1** Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.
 - **10.10.1.2** Optimize the [M-H]- for each method analyte by infusing approximately 0.5-1.0 μg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined. The method analytes may have different optima requiring some compromise between the optima.
 - **10.10.1.3** Optimize the product ion for each analyte by infusing approximately 0.5-1.0 μg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure,

collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions and the sulfonic acids have similar MS/MS conditions.

10.10.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Cautions: LC system components, as well as the mobile phase constituents, contain many of the method analytes in this method. Thus, these PFAS's will build up on the head of the LC column during mobile phase equilibration. To minimize the background PFAS peaks and to keep background levels constant, the time the LC column sits at initial conditions must be kept constant and as short as possible (while ensuring reproducible retention times). In addition, prior to daily use, flush the column with 100% methanol for at least 20 min before initiating a sequence. It may be necessary on some systems to flush other LC components such as wash syringes, sample needles or any other system components before daily use.

- 10.10.3 Inject (2µl for Sciex systems, 3µl for Waters systems, 20µl for MeOH fractions) a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. If analyzing for PFTA, ensure that the LC conditions are adequate to prevent co-elution of PFTA and the mobile phase interferants. These interferants have the same precursor and products ions as PFTA, and under faster LC conditions may co-elute with PFTA. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation.
- **10.10.4** Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to chromatographic resolution of the linear and branched isomers of these compounds. Most PFAS's are produced by two different processes. One process gives rise to linear PFAS's only while the other process produces both linear and branched isomers. Thus, both branched and linear PFAS's can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

- **10.10.5** Prepare a set of CAL standards as described in Section 8.2.9. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity.
- **10.10.6** The LC/MS/MS system is calibrated using the isotope dilution technique. Target analytes are quantitated against their isotopically labeled analog (Extracted Internal Standard) where commercially available. If a labeled analog is not commercially available, the extracted internal standard with the closest retention time and /or closest chemical similarity is to be used. Use the LC/MS/MS data

system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve must always be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes. A minimum of 5 levels are required for a linear calibration model and a minimum of 6 levels are required for a quadratic calibration model.

- **10.10.7 CALIBRATION ACCEPTANCE CRITERIA** A linear fit is acceptable if the coefficient of determination (r²) is greater than 0.99. When quantitated using the initial calibration curve, each calibration point, except the lowest point, for each analyte must calculate to be within 70-130% of its true value. The lowest CAL point must calculate to be within 50-150% of its true value. If these criteria cannot be met, the analyst will have difficulty meeting ongoing QC criteria. It is recommended that corrective action is taken to reanalyze the CAL standards, restrict the range of calibration, or select an alternate method of calibration (forcing the curve through zero is still required).
 - **10.10.7.1 CAUTION:** When acquiring MS/MS data, LC operating conditions must be carefully reproduced for each analysis to provide reproducible retention times. If this is not done, the correct ions will not be monitored at the appropriate times. As a precautionary measure, the chromatographic peaks in each window must not elute too close to the edge of the segment time window.
- **10.11 CONTINUING CALIBRATION CHECK (CCV)** Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a "sample" is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet these criteria. Subsequent CCVs should alternate between a medium and Low concentration CAL standard.
 - **10.11.1** Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.
 - **10.11.2** Calculate the concentration of each analyte and EIS in the CCV. The calculated amount for each analyte for medium level CCVs must be within ± 30% of the true value with an allowance of 10% of the reported analytes to be greater than 30%. The calculated amount for each EIS must be within ± 50% of the true value. The calculated amount for the lowest calibration point for each analyte must be within ± 50%. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. If the CCV fails because the calculated concentration is greater than 130% (150% for the low-level CCV) for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without reanalysis.

Printouts of this document may be out of date and should be considered uncontrolled. To accomplish work, the published version of the document should be viewed online. Document Type: SOP-Technical Pre-Qualtrax Document ID: N/A 10.11.3 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration (Sect 10.10) and verification of sensitivity by analyzing a CCV at or below the RL (Sect 10.11).

10.12 EXTRACT ANALYSIS

- **10.12.1** Establish operating conditions equivalent to those summarized in Tables 7-9 of Section 16.
- **10.12.2** Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.
- **10.12.3** Calibrate the system by either the analysis of a calibration curve (Sect. 10.10) or by confirming the initial calibration is still valid by analyzing a CCV as described in Section 10.11.
- **10.12.4** Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots under the same conditions used to analyze the CAL standards.
- **10.12.5** At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.
- **10.12.6** The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the sample should be re-extracted with a reduced sample volume in order to bring the out of range target analytes into the calibration range. If a smaller sample size would not be representative of the entire sample, the following options are recommended. Re-extract an additional aliquot of sufficient size to insure that it is representative of the entire sample. Spike it with a higher concentration of internal standard. Prior to LC/MS analysis, dilute the sample so that it has a concentration of internal standard equivalent to that present in the calibration standard. Then, analyze the diluted extract.

11. Data Evaluation, Calculations and Reporting

- **11.1** Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 9.
- **11.2** Calculate analyte concentrations using the multipoint calibration established in Section 10.9. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.8

 C_{ex} = (Area of target analyte * Concentration of Labeled analog) / (area of labeled analog * CF)

 $C_s = (C_{ex} / sample volume in ml) * 1000$

 C_{ex} = The concentration of the analyte in the extract CF = calibration factor from calibration.

- **11.3** Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.
- **11.4** PFHxS, PFOS, PFOA, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to the linear and branch isomers of these compounds (Sect. 10.10.4.). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.
- **11.5** Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

- **12.1** Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.
- 12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.2 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

- **14.1** Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.
- **14.2** This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.
- **14.3** The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

Chemical Hygiene Plan – ID 2124

SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Time (min)	2 mM Ammonium Acetate (5:95 MeOH/H ₂ O)	100% Methanol				
Initial	100.0	0.0				
1.0	100.0	0.0				
2.2	85.0	15.0				
11	20.0	80.0				
11.4	0.0	100.0				
12.4	100.0	00.0				
15.5	100.0	0.0				
Waters Aquity UPL	Waters Aquity UPLC ® BEHC ₁₈ 2.1 x 50 mm packed with 1.7 µm BEH C ₁₈					
stationary phase						
Flow rate of 0.4 mL/min						
	3 µL injection					

Table 7a: LC Method Conditions

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Table 7b: LC Method Conditions (MeOH Fraction)

Time (min)	2 mM Ammonium Acetate (5:95 MeOH/H ₂ O)	100% Methanol			
Initial	100.0	0.0			
1.0	50.0	50.0			
4.5	1.0	99.0			
4.95	1.0	99.0			
5.0	100.0	0.0			
5.5	100.0	0.0			
Waters Aquity UPLC \circledast BEHC ₁₈ 2.1 x 50 mm packed with 1.7 μ m BEH C ₁₈					
stationary phase					
Flow rate of 0.6 mL/min					
20 µL injection					

Table 8: ESI-MS Method Conditions

ESI Conditions			
Polarity	Negative ion		
Capillary needle voltage	.5 kV		
Cone Gas Flow	25 L/hr		
Nitrogen desolvation gas	1000 L/hr		
Desolvation gas temp.	500 °C		

Table 9a: Method Analyte Source, Retention Times (RTs), and EIS References

#	Analyte	Transition	RT	IS	Туре
1	МЗРВА	216>171	2.65		REC
2	PFBA	213 > 169	2.65	3: M4PFBA	
3	M4PFBA	217 > 172	2.65	1: M3PBA	EIS
4	PFPeA	263 > 219	5.67	5: M5PFPEA	
5	M5PFPEA	268 > 223	5.66	1: M3PBA	EIS
6	PFBS	299 > 80	6.35	7: M3PFBS	
7	M3PFBS	302 > 80	6.35	29:M4PFOS	EIS
8	FTS 4:2	327 > 307	7.47	9: M2-4:2FTS	
9	M2-4:2FTS	329 > 81	7.47	29:M4PFOS	EIS
10	PFHxA	303 > 269	7.57	11: M5PFHxA	
11	M5PFHxA	318 > 273	7.57	19:M2PFOA	EIS
12	PFPeS	349 > 80	7.88	18: M3PFHxS	
13	PFHpA	363 > 319	8.80	14: M4PFHpA	
14	M4PFHpA	367 > 322	8.80	19:M2PFOA	EIS
15	L-PFHxS	399 > 80	8.94	18: M3PFHxS	
16	br-PFHxS	399 > 80	8.72	18: M3PFHxS	
17	PFHxS Total	399 > 80	8.94	18: M3PFHxS	
18	M3PFHxS	402 > 80	8.94	29:M4PFOS	EIS
19	M2PFOA	415 > 370	9.7		REC
20	PFOA	413 > 369	9.7	23: M8PFOA	
21	br-PFOA	413 > 369	9.48	23: M8PFOA	
22	PFOA Total	413 > 369	9.7	23: M8PFOA	
23	M8PFOA	421 > 376	9.7	19: M2PFOA	EIS
24	FTS 6:2	427 > 407	9.66	25: M2-6:2FTS	
25	M2-6:2FTS	429 > 409	9.66	29:M4PFOS	EIS
26	PFHpS	449 > 80	9.78	33: M8PFOS	
27	PFNA	463 > 419	10.41	33: M9PFNA	
28	M9PFNA	472 > 427	10.41	19: M2PFOA	EIS
29	M4PFOS	501 > 80	10.45		REC
30	PFOS	499 > 80	10.45	33: M8PFOS	
31	br-PFOS	499 > 80	10.27	33: M8PFOS	
32	PFOS Total	499 > 80	10.45	33: M8PFOS	
33	M8PFOS	507 > 80	10.45	29: M4PFOS	EIS
34	FTS 8:2	527 > 507	10.99	35: M2-8:2FTS	
35	M2-8:2FTS	529 > 509	10.99	29:M4PFOS	EIS
36	M2PFDA	515 > 470	11.00		REC
37	PFDA	513 > 469	11.00	38: M6PFDA	

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Alpha Analytical, Inc. Facility: Mansfield, MA Department: Semivolatiles <u>Title: PFAS by SPE and LC/MS/MS Isotope Dilution</u>

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#	Analyte	Transition	RT	IS	Туре
38	M6PFDA	519 > 474	11.00	36: M2PFDA	EIS
39	PFNS	549 > 80	11.02	33:M8PFOS	
40	br-NMeFOSAA	570 > 419	11.41	41: D3-NMeFOSAA	
41	L-NMeFOSAA	570 > 419	11.41	41: D3-NMeFOSAA	
42	NMeFOSAA total	570 > 419	11.41	41: D3-NMeFOSAA	
43	d3-NMeFOSAA	573 > 419	11.41	36: M2PFOA	EIS
44	PFOSA	498 > 78	11.48	29: M8FOSA	
45	M8FOSA	506 > 78	11.48	19: M2PFOA	EIS
46	PFUnDA	563 > 519	11.51	41: M7-PFUDA	
47	M7-PFUDA	570 > 525	11.51	36: M2PFDA	EIS
48	PFDS	599 > 80	11.51	33:M8PFOS	
49	br-NEtFOSAA	584 > 419	11.68	48: d5-NEtFOSAA	
50	L-NEtFOSAA	584 > 419	11.68	48: d5-NEtFOSAA	
51	NEtFOSAA total	584 > 419	11.68	48: d5-NEtFOSAA	
52	d5-NEtFOSAA	589 > 419	11.68	36: M2PFOA	EIS
53	PFDoA	613 > 569	11.96	50: MPFDOA	
54	MPFDOA	615 > 570	11.96	36: M2PFDA	EIS
55	PFTriA	663 > 619	12.34	53: M2PFTEDA	
56	PFTeA	713 > 669	12.6	53: M2PFTEDA	
57	M2PFTEDA	715 > 670	12.6	36: M2PFDA	EIS
58	M3HFPO-DA	329>285	7.97	19: M2PFOA	EIS
59	HFPO-DA	332>287	7.97	54: M3HFPO-DA	
60	ADONA	377>251	8.00	23: M8PFOA	
61	PFHxDA	813>769	13.20	59: M2PFHxDA	
62	PFODA	913>869	13.50	59: M2PFHxDA	
63	M2PFHxDA	815>770	13.20	36:M2PFDA	EIS
64	NEtFOSA	526>169	11.00	61: d5-NEtFOSA	
65	NMeFOSA	512>169	10.50	63: d3-NMeFOSA	
66	d3-NMeFOSA	515>169	10.50	19: M2PFOA	EIS
67	d5-NEtFOSA	531>169	11.00	19: M2PFOA	EIS
68	NMeFOSE	556>122	11.25	66: d7-NMeFOSE	
69	NEtFOSE	570>136	10.75	67: d9-NEtFOSE	
70	d7-NMeFOSE	563>126	11.25	19: M2PFOA	EIS
71	d9-NEtFOSE	579>142	10.75	19: M2PFOA	EIS
72	FTS 10:2	627>607	11.50	25: M2-8:2FTS	
73	PFDoS	699>99	12.50	33: M8PFOS	
74	9CIPF3ONS	531>351	10.23	33: M8PFOS	
75	11CIPF3OUdS	631>451	11.27	33: M8PFOS	
76	PFPrS	249>80	3.40	7: M3PFBS	

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Alpha Analytical, Inc. Facility: Mansfield, MA Department: Semivolatiles <u>Title: PFAS by SPE and LC/MS/MS Isotope Dilution</u>

#	Analyte	Transition	RT	IS	Туре
77	PFMPA	229>85	3.39	1: M3PBA	
78	PFMBA	279 .85	5.75	1: M3PBA	
79	PFEESA	315>135	6.45	18: M3PFHxS	
80	NFDHA	295>210	6.79	11: M5PFHxA	

Table 9b: Methanol Analyte Source, Retention Times (RTs), and EIS References

#	Analyte	Transition	RT	IS	Туре
1	M2PFNA	472 > 427	2.55		IS
2	M2PFUdA	213 > 169	2.87		IS
3	M8FOSA	217 > 172	2.86	1: M2PFNA	EIS
4	FOSA	263 > 219	2.86	3: M8FOSA	
5					
6	D3-NMeFOSA	515>169	3.22	1: M2PFNA	EIS
7	NMeFOSA	512>169	3.22	6: d3-NMeFOSA	
8	D5-NEtFOSAA	531>169	3.41	1: M2PFNA	EIS
9	NEtFOSAA	526>169	3.41	8: d5-NEtFOSA	
10	D7-NMeFOSE	563>126	3.23	1: M2PFNA	EIS
11	NMeFOSE	556>122	3.23	10: d7-NMeFOSE	
12	D9-NEtFOSE	579>142	3.40	11: M2PFNA	EIS
13	NEtFOSE	570>136	3.40	67: d9-NEtFOSE	

APPENDIX C

HEALTH AND SAFETY PLAN INCLUDING COMMUNITY AIR MONITORING PLAN



APPENDIX C HEALTH AND SAFETY PLAN

This worker Health and Safety Plan (HASP) has been prepared by FPM Group (FPM) for New York State Department of Environmental Conservation (NYSDEC) Site #152250, identified as the East Hampton Airport Site, Wainscott, Suffolk County, New York (Site). This HASP is part of the Remedial Investigation/Feasibility Study (RI/FS) Work Plan and includes measures for the protection of worker health and safety during RI activities. A Community Air Monitoring Plan (CAMP) is also included to address potential issues that may affect the Site community during RI activities.

C.1 Worker Health and Safety Plan

C.1.1 Introduction

This HASP has been written for compliance with "OSHA Hazardous Waste Operations Standards (29 CFR 1910.120)", the guidance documents, "Standard Operating Safety Guidelines (Office of Solid Waste and Emergency Response, 1992)" and the "Occupational Safety and Health Guidance Manual for Hazardous Waste Activities" (U.S. Department of Health and Human Services, 1985).

C.1.2 Scope and Applicability of the HASP

This HASP is designed to be applicable to locations where soil borings, soil vapor implant installation and sampling, groundwater vertical profiling, and groundwater monitoring well installation and sampling are performed at the Site by all parties that either perform or witness the activities. This HASP may also be modified or amended to meet specific needs of the proposed work.

This HASP will detail the Site safety procedures, Site background, and safety monitoring. Contractors will be required to adopt this HASP in full or to follow an FPM-approved HASP. The Health and Safety Officer (HSO) will be present at the Site to inspect the implementation of the HASP; however, it is the sole responsibility of the contractor(s) to comply with the HASP.

The HASP has been formulated as a guide to complement professional judgment and experience. The appropriateness of the information presented should always be evaluated with respect to unforeseen Site conditions that may arise.

C.1.3 Site Work Zone and Visitors

The Site work zone (a.k.a. exclusion zone) during the performance of the soil boring, vertical profiling, well installation, vapor implant installation, and sampling activities will be a 30-foot radius about the work location. This work zone may be extended if, in the judgment of the HSO, Site conditions warrant a larger work zone.

Any Site work zones that are located in public areas or areas where members of the public might reasonably be present will have the boundary denoted by highly-visible "caution tape" prior to the start of any work activities. The HSO will visually monitor the work zone boundary as the work commences to ensure that no unauthorized personnel enter the work zone.

No visitors will be permitted within the work zone without the consent of the HSO. All visitors will be required to be familiar with, and comply with, the HASP. The HSO will deny access to those whose



presence within the work zone is unnecessary or those who are deemed by the HSO to be in non-compliance with the HASP.

All Site workers, including the contractors, will be required to have OSHA 40-hour hazardous material training (eight-hour refresher courses annually), respirator fit test certification, and current medical surveillance as stated in 29 CFR 1910.120.

The HSO will also give an on-Site health and safety discussion to all Site personnel, including the contractors, prior to initiating the Site work. Workers not in attendance during the health and safety talk will be required to have the discussion with the HSO prior to entering the work zone.

Emergency telephone numbers and directions to the nearest urgent care center are shown in Table C.1.3.1. This table will be kept at the Site in the possession of the HSO and will be available to all Site workers and visitors.

C.1.4 Key Personnel/Alternates

The Project Manager for this project is Ben Cancemi, PG. The Senior Manager (project coordinator) for this project is Stephanie Davis, PG, who will also serve as the Quality Assurance Officer (QAO). The Field Services Manager will be John Bukoski, PG, who will also act as the HSO. An Assistant Project Manager and Assistant HSO may be designated for the field activities.

C.1.5 <u>Site Background</u>

Based on the Site history and previous analyses of samples, the known chemicals present at the Site include per- and polyfluoroalkyl substances (PFAS), which are present in soil and groundwater at the Site and in offsite groundwater. Subsurface investigation activities will include collection of soil, groundwater, and soil vapor samples.

C.1.6 <u>Task/Operation Health and Safety Analysis</u>

This section presents health and safety analyses for the soil boring, vertical profiling, well installation, vapor implant installation, and sampling tasks. In general, FPM will employ one to two persons at the Site. No soil borings or other intrusive Site operations will be conducted by contractors without the presence of an FPM representative onsite. In the event that the HSO is not present on the Site, the Assistant HSO will implement the HASP. Levels of personal protection mentioned in this section are defined in Section C.1.9.

Intrusive Sampling Safety Analysis

Intrusive activities, including performing soil borings and vertical profiling, and installing wells and soil vapor implants, will be performed by a direct-push contractor, a well drilling contractor, and/or FPM personnel. The soil borings, vertical profiles, and well installations will be performed by a direct-push and/or well drilling contractor advancing tooling into unconsolidated deposits consisting primarily of sand. Soil vapor implant installation will be performed by FPM personnel. The depth to groundwater is anticipated to range from approximately 15 to 30 feet below grade at the Site and will not be contacted during intrusive activities except during vertical profiling, well installation, and groundwater sampling. FPM personnel will be present to coordinate, oversee, and monitor intrusive activities.



TABLE C.1.3.1 EMERGENCY TELEPHONE NUMBERS AND DIRECTIONS TO NORTHWELL HEALTH URGENT CARE CLINIC

Police	
Ambulance	
Poison Control Center	
Northwell Health Urgent Care Clinic - Bridgehampton	

FPM Contact Personnel (631-737-6200)

Ben Cancemi, PG, Project Manager	Cell # 516-383-7106
Stephanie Davis, PG Senior Project Manager, QAO	
John Bukoski, PG, Field Services Manager, HSO	

Directions to the Northwell Health Urgent Care Clinic in Bridgehampton

2044 Montauk Highway Bridgehampton, NY 11932 Tel: 631-315-6755

Exit the Site onto Daniels Hole Road and turn right, heading south towards Montauk Highway. Travel south on Daniels Hole Road for about one mile to Montauk Highway. Turn right onto Montauk Highway and drive west towards Bridgehampton. Travel about 4.5 miles on Montauk Highway through Wainscott and the center of Bridgehampton. The Urgent Care Clinic is next to the King Kullen Supermarket in the Bridgehampton Commons Shopping Center on the west side of Bridgehampton. Turn right into the shopping center and then left towards the supermarket. An URGENT CARE sign marks the clinic location.





To minimize the potential for dust inhalation during intrusive activities, the HSO will assess wind and soil moisture conditions and, if it is deemed necessary by the HSO, the affected area will be wetted with potable water. If this measure is determined to be ineffective, the HSO may decide to upgrade personal protection to Level C respiratory protection to include respirators with dust cartridges. If extremely dusty conditions exist that cannot be successfully controlled by dust suppression with potable water, then the HSO may choose to postpone intrusive activities until such time as conditions improve.

Organic vapor concentrations will be monitored in the work zone by utilizing a Photovac MicroTIP PID or The PID will be "zeroed" by exposing the PID to ambient (outdoor) air prior to intrusive equivalent. activities and the upper range of calibration will be established by calibrating at 98 to 100 parts per million (ppm) of isobutylene. Background organic vapor concentrations will then be established in the work zone prior to intrusive activities and recorded in the HSO field book. Upon commencement of intrusive activities, PID readings will be obtained in the workers' breathing zone. Readings will be obtained following the initial advance into the ground and every five feet thereafter. At the discretion of the HSO, PID readings may be obtained more frequently. All readings and observations will be recorded in the HSO field book. PID air monitoring will be conducted by FPM personnel. Steady-state PID readings greater than five ppm in the worker's breathing zone will require upgrading to Level C personal protective equipment. Steady-state readings, for this purpose, will be defined as readings exceeding five ppm above background for a minimum of ten seconds at points approximately one foot above and then around the borehole opening. These points will define the worker's breathing zone. Level C personal protection will be implemented including full-face air-purifying respirators with dust and organic vapor cartridges (personal protective equipment will be described in greater detail in Section C.1.9). All FPM personnel and contractors must be properly trained and fit tested prior to donning respirators.

If PID readings exceed steady-state levels greater than 50 ppm above background or any conditions exist for which the HSO determines require Level B personal protective equipment, all work at the Site will cease immediately and all personnel will evacuate the work zone. Evacuation will occur in the upwind direction if discernible. Specific evacuation routes will be discussed prior to commencement of work at each location based on work location and wind direction and an evacuation meeting place will be determined. Level B conditions are not anticipated to be encountered; however, if level B conditions arise, no Site work will be performed by FPM or contractors and a complete evaluation of the operation will be performed and this HASP will be modified.

All personnel will be required to wear chemical-resistant nitrile gloves when the potential for dermal contact with the soil or groundwater is possible. This will include handling equipment retrieved from boreholes or wells. Dermal contact with soil or groundwater and equipment that has been in contact with soil or groundwater will be avoided.

Other Safety Considerations

• <u>COVID-19</u>

If the COVOD-19 pandemic is continuing at the time that field wok is performed, then appropriate health and safety protocols will be implemented to prevent the spread of the virus. Based on information aviable at this time, these protocols will include social distancing, wearing of face coverings when working in indoor situations or when social distancing cannot be assured, frequent hand washing, and sanitizing of frequently-touched surfaces. Such protocols are already in place in FPM offices and which travelling for business purposes and, therefore, this HASP provides specific protocols for field work only. These protocols will be applicable to all FPM personnel and to subcontractor personnel while they are at the work site.



Social distancing will be accomplished by ensuring that workers remain at least six feet apart, as feasible, during field activities, including travel to and from field sites and while working in the field. This may be accomplished by having workers travel in separate vehicles, establishing separate work stations while onsite, and coordinating closely so that social distancing can be maintained.

Face coverings that fully cover the nose and mouth will be worn at all times while indoor work is performed or when social distancing cannot be assured, such as when travel in separate vehicles is not possible and when working cooperatively in the field with other personnel. Face coverings may be disposable single-use coverings that will be discarded each day or when they become soiled or damaged. FPM will provide disposable single-use coverings for all field personnel as needed. Field personnel may also choose to use cloth face coverings, provided they are maintained by the personnel in a clean and functional condition. If field personnel are working outdoors and alone, where there is no reasonable potential for compromised social distancing, then they do not need to wear a face covering at that time.

Field personnel will be encouraged to wash their hands frequently and potable water and hand soap will be maintained onsite for this purpose. Hand sanitizer may also be used, but only when the potential for sample cross-contamination is not present.

Frequently-touched surfaces, such as door handles, shared hand equipment, and similar items, will be sanitized on a daily basis prior to the start of work and if the affected surfaces become soiled. Commercial sanitizing products will be used for this purpose. Sanitizing will be performed on a limited basis if the potential for sample cross-contamination is present. Steps will be taken to reduce the need for sanitizing by assigning designated personnel to specific hand-held field equipment and wearing disposable gloves when handling shared equipment or frequently-touched surfaces.

These procedures will be reviewed at the time that field work is initiated and modified as needed in accordance with then-current NYSDOH and federal Center for Disease Control (CDC) recommendations and requirements.

Noise

During operations that may generate potentially harmful levels of noise, the HSO will monitor noise levels with a Realistictm hand-held sound level meter. Noise levels will be monitored in decibels (dBs) in the A-weighted, slow-response mode. Noise level readings which exceed the 29 CFR 1910.95 permissible noise exposure limits will require hearing protection (see Table C.1.6.1 for Permissible Noise Exposures).

Hearing protection will be available to all Site workers and will be required for exceedances of noise exposure limits. The hearing protection will consist of foam, expansion-fit earplugs (or other approved hearing protection) with a noise reduction rating of at least 29 dB. Hearing protection must alleviate worker exposure to noise to an eight-hour time-weighted average of 85 dB or below. In the event that the hearing protection is inadequate, work will cease until a higher level of hearing protection can be incorporated.

TABLE C.1.6.1 PERMISSIBLE NOISE EXPOSURES*

Duration Per Day Hours	Sound Level dBA Slow Response
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
1/2	110

Notes:

When the daily noise exposure is composed of two or more periods of noise exposure of different levels, their combined effect should be considered, rather than the individual effect of each. If the sum of the following fractions: $C_1/T_1+C_2/T_2+...,C_n/T_n$ exceeds unity, then, the mixed exposure should be considered to exceed the limit value. C_n indicates the total time of exposure at a specified noise level, and T_n indicates the total time of exposure permitted at that level.

Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level.

*Standards derived from 29 CFR 1910.95

Heavy Equipment Operations

Intrusive investigation activities may involve the use of heavy equipment. Heavy equipment operations for investigation activities will be performed by a qualified contractor with oversight by FPM.

Safety concerns during heavy equipment operations include risk of injury due to being struck by equipment, being trapped between moving equipment parts, being struck by dropped materials, and hearing damage due to equipment noise. All investigation personnel will take precautions against these risks when working in the vicinity of heavy equipment by being aware of equipment locations and movement, by wearing steel-toed boots and hard hats, and by using hearing protection, if necessary. Investigation personnel who have not previously worked in the vicinity of heavy equipment will be paired with an experienced person for at least one day to familiarize themselves with heavy equipment operations and safety procedures. All mobile equipment will be equipped with audible alarms to indicate when the equipment is being operated in reverse. All investigation personnel will be advised to stay away from demolition or construction areas if these activities are ongoing.

Slip/Trip/Fall Preventative Measures

To reduce the potential for slipping, tripping, or falling, the work zone will be kept clear of unnecessary equipment. In addition, all investigation workers will be required to wear work boots with adequate tread



to reduce the potential for slipping (work boots must be leather or chemical-resistant and contain steel toes and steel shanks).

Insects

Potential insect problems include, but are not limited to stinging insects such as bees, wasps, and hornets, and ticks. Prior to commencement of work, each work area will be surveyed for nests and hives to reduce the possibility of disturbing stinging insects. In addition, each Site worker will be asked to disclose any allergies related to insect stings or bites. The worker will be requested to keep his or her anti-allergy medicine onsite.

Tick species present on Long Island consist of the pinhead-sized deer tick, the Lone Star tick, and the much-larger dog tick. Ticks are likely to exist at the Site, particularly in vegetated areas. All Site workers will be advised to avoid walking through vegetated areas, if feasible, and will be advised to check for ticks on clothing periodically.

Potential Electrical and Other Utility Hazards

Potential electric hazards consist mainly of overhead and underground power lines. Other utilities that may present hazards include telephone lines, gas lines, sewer lines, water lines, and other overhead or underground utilities. Prior to commencement of work at the Site, all locations will be inspected with respect to overhead lines. Intrusive work involving heavy equipment will not be performed when the horizontal distance between the equipment and overhead wires is less than 30 feet.

Underground potential utility hazards will be minimized by contacting the One-Call service to provide markouts of the utilities beneath adjoining public streets. A geophysical survey will also be performed in each work area to identify utilities that may be present.

Heat/Cold Stress

Heat stress may become a concern especially if protective clothing is donned that will decrease natural ventilation. To assist in reducing heat stress, an adequate supply of water or other liquids will be staged on the Site and personnel will be encouraged to rehydrate at least every two hours even if not thirsty. In addition, a shady rest area will be designated to provide shelter during sunny or warm days and Site workers will break for at least 10 minutes every two hours in the rest area, and, in very hot weather, workers wearing protective clothing may be rotated.

Indications of heat stress range from mild (fatigue, irritability, anxiety, decreased concentration, dexterity or movement) to fatal. Medical help will be obtained for serious conditions.

Heat-related problems are:

- <u>Heat rash</u>: caused by continuous exposure to heat and humid air and aggravated by chafing clothes. Decreases ability to tolerate heat.
- <u>Heat cramps</u>: caused by profuse perspiration with inadequate fluid intake and chemical replacement (especially salts). Signs: muscle spasm and pain in the extremities and abdomen.
- <u>Heat exhaustion</u>: caused by increased stress on various organs to meet increased demands to cool the body. Signs: shallow breathing; pale, cool, moist skin; profuse sweating; dizziness and lassitude.



• <u>Heat stroke</u>: the most severe form of heat stress. Can be fatal. Medical help must be obtained immediately. Body must be cooled immediately to prevent severe injury and/or death. Signs: red, hot, dry skin; no perspiration; nausea; dizziness and confusion; strong, rapid pulse; coma.

Cold exposure is a concern if work is conducted during cold weather, marginally cold weather during precipitation periods, or moderate to high wind periods. To assist in reducing cold exposure the following measures will be taken when cold exposure concerns are present:

- All personnel will be required to wear adequate and appropriate clothing. This will include head gear to prevent the high percentage loss of heat that occurs in this area (thermal liners for hard hats if hard hats are required).
- A readily-available warm shelter will be identified near the work zone.
- Work and rest periods will be scheduled to account for the current temperature and wind velocity conditions.
- Work patterns and the physical condition of workers will be monitored and personnel will be rotated, as necessary.
- Indications of cold exposure include shivering, dizziness, numbness, confusion, weakness, impaired judgment, impaired vision, and drowsiness. Medical help will be obtained for serious conditions if they occur.

Cold exposure-related problems are:

- <u>Frost bite</u>: Ice crystal formation in body tissues. The restricted blood flow to the injured part results in local tissue destruction.
- <u>Hypothermia</u>: Severe exposure to cold temperature resulting in the body losing heat at a rate faster than the body can generate heat. The stages of hypothermia are shivering, apathy, loss of consciousness, decreasing pulse and breathing rate, and death.

The Buddy System

All activities in contaminated or potentially contaminated areas will be conducted by pairing off the Site workers in groups of two (or three if necessary). Each person (buddy) will be able to provide his or her partner with assistance, observe his or her partner for signs of chemical, cold, or heat exposure, periodically check the integrity of his or her partner's protective clothing, and notify the HSO or others if emergency help is needed. The buddy system will be instituted at the beginning of each work day. If new workers arrive on Site, a buddy will be chosen prior to the new worker entering the work zone.

FPM

Site Communications

Two sets of communication systems will be established at the Site: internal communication among personnel onsite, and external communication between onsite and offsite personnel. Internal communication will be used to alert team members to emergencies, pass along safety information such as heat stress and protective clothing checks, communicate changes in the work to be accomplished, and maintain Site control. Due to ambient noise, verbal communications may be difficult at times. The HSO will carry a whistle (and compressed air horn if respirators are donned) to signal Site workers. A single whistle blast will be the signal to immediately evacuate the work zone through the access control point. This signal will be discussed with all Site workers prior to commencement of work.

An external communication system between onsite and offsite personnel will be established to coordinate emergency response, report to the Project Manager, and maintain contact with essential off-Site personnel. A field cellphone will be available at all times to the HSO. In addition, onsite workers' cellphones will be identified prior to the commencement of onsite operations.

General Safe Work Practices

Standing orders applicable during Site operations are as follows:

- No smoking, eating, drinking, or application of cosmetics in the work zone.
- No matches or lighters in the work zone.
- All Site workers will enter/exit work zone through the Site access point.
- Any signs of contamination, radioactivity, explosivity, or unusual conditions will require evacuating the Site immediately and reporting the information to the HSO.
- Loose-fitting clothing and loose long hair will be prohibited in the work zone during heavy equipment operations.
- A signal person will direct the backing of work vehicles.
- Equipment operators will be instructed to check equipment for abnormalities such as oozing liquids, frayed cables, unusual odors, etc.

C.1.7 Personnel Training Requirements

All FPM personnel and contractor personnel will receive adequate training prior to entering the Site. FPM and contractor personnel will, at a minimum, have completed OSHA-approved, 40-hour hazardous materials Site safety training and OSHA-approved, eight-hour safety refresher course within one year prior to commencing field work. In addition, each worker must have a minimum of three days field experience under the direct supervision of a trained, experienced supervisor.

Prior to Site field work, the HSO will conduct an in-house review of the project with respect to health and safety with all FPM personnel who will be involved with field work at the Site. The review will include discussions of signs and symptoms of chemical exposure and heat/cold stress that indicate potential medical emergencies. In addition, review of PPE will be conducted to include the proper use of air-purifying respirators.



C.1.8 Medical Surveillance Program

All workers at the Site must participate in a medical surveillance program in accordance with 29 CFR 1910.120. A medical examination and consultation must have been performed within the last twelve months to be eligible for field work.

The content of the examination and consultation will include a medical and work history with special emphasis on symptoms related to the handling of hazardous substances, health hazards, and fitness for duty including the ability to wear required personal protective equipment under conditions (i.e., temperature extremes) that may be expected at the work Site.

All medical examinations and procedures shall be performed by, or under the supervision of, a licensed physician. The Physician shall furnish a written opinion containing:

- The results of the medical examination and tests;
- The physician's opinion as to whether the employee has any detected medical conditions which would place the worker at increased risk of material impairment of the employee's health from work in hazardous waste operations;
- The physician's recommended limitations upon the worker assigned to the work; and
- A statement that the worker has been informed by the physician of the results of the medical examination and any further examination or treatment.
- An accurate record of the medical surveillance will be retained. The record will consist of at least the following information:
- The name and social security number of the employee;
- The physician's written opinions, recommended limitations, and results of examinations and tests; and
- Any worker medical complaints related to exposure to hazardous substances.

C.1.9 Personal Protective Equipment

General Considerations

The two basic objectives of the personal protective equipment (PPE) are to protect the wearer from safety and health hazards, and to prevent the wearer from incorrect use and/or malfunction of the PPE.

Potential Site hazards have been discussed previously in Section C.1.6. The duration of Site activities is estimated to be periods of several days. All work is expected to be performed during daylight hours and workdays, in general, are expected to be eight to ten hours in duration. Any work performed beyond daylight hours will require the permission of the HSO. This decision will be based on the adequacy of artificial illumination and the type and necessity of the task being performed.

Personal protection levels for the Site activities, based on past investigations at the Site, are anticipated to be Level D with the possibility of upgrading to Level C. The equipment included for each level of protection is provided as follows:

Level C Protection

Level C personnel protective equipment includes:

- Air-purifying respirator, full-face
- Chemical-resistant clothing includes: Tyvektm (spunbonded olefin fibers) for particulate and limited splash protection or Saranextm (plastic film-laminated Tyvek) for permeation resistance to solvents.
- Coveralls*, or
- Long cotton underwear*
- Gloves (outer), chemical-resistant
- Gloves (inner), chemical-resistant
- Boots (outer), leather or chemical-resistant, steel toe and shank
- Boot covers (outer), chemical-resistant (disposable)*
- Hard hat (face shield)*
- Escape mask*
- 2-way radio communications (inherently safe)*
- (*) optional

Meeting all of these criteria permits use of Level C protection:

- Oxygen concentrations are not less than 19.5% by volume.
- Measured air concentrations of identified substances will be reduced by the respirator below the substance's threshold limit value (TLV).
- Atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect any body area left unprotected by chemical-resistant clothing.
- Job functions do not require self-contained breathing apparatus.
- Direct readings are below 50 ppm on the PID.

Level D Protection

Personnel protective equipment:

- Coveralls
- Gloves*
- Boots/shoes, leather or chemical-resistant, steel toe and shank
- Safety glasses or chemical splash goggles*
- Hard hat (face shield*)
- Escape mask*
- (*) optional

Meeting any of these criteria allows use of Level D protection:

- No contaminant levels above 5 ppm organic vapors or dusty conditions are present.
- Work functions preclude splashes, immersion, or the reasonable potential for unexpected inhalation of any chemicals above the TLV.

Additional Considerations for Selecting Levels of Protection

Other factors that will be considered in selecting the appropriate level of protection are heat and physical stress. The use of protective clothing and respirators increases physical stress, in particular, heat stress on the wearer. Chemical protective clothing greatly reduces natural ventilation and diminishes the body's ability to regulate its temperature. Even in moderate ambient temperatures, the diminished capacity of the body to dissipate heat can result in one or more heat-related problems.

All chemical protective garments can be a contributing factor to heat stress. Greater susceptibility to heat stress occurs when protective clothing requires the use of a tightly-fitted hood against the respirator face piece, or when gloves or boots are taped to the suit. As more body area is covered, less cooling takes place, increasing the probability of heat stress.

Wearing protective equipment also increases the risk of accidents. It is heavy, cumbersome, decreases dexterity, agility, interferes with vision, and is fatiguing to wear. These factors all increase physical stress and the potential for accidents. In particular, the necessity of selecting a level of protection will be balanced against the increased probability of heat stress and accidents.

Donning and Doffing Ensembles

• Donning an Ensemble

A routine will be established and practiced periodically for donning a Level C ensemble. Assistance may be provided for donning and doffing since these operations are difficult to perform alone. Table C.1.9.1 lists sample procedures for donning a Level C ensemble. These procedures should be modified depending on the particular type of suit and/or when extra gloves and/or boots are used.



TABLE C.1.9.1 SAMPLE LEVEL C DONNING PROCEDURES

- 1. Inspect the clothing and respiratory equipment before donning (see Inspection in subsection C.1.7).
- 2. Adjust hard hat or headpiece if worn, to fit user's head.
- 3. Standing or sitting, step into the legs of the suit; ensure proper placement of the feet within the suit; then gather the suit around the waist.
- 4. Put on chemical-resistant safety boots over the feet of the suit. Tape the leg cuff over the tops of the boots.
- 5. Don the respirator and adjust it to be secure, but comfortable.
- 6. Perform negative and positive respirator facepiece seal test procedures.
 - To conduct a negative pressure test, close the inlet part with the palm of the hand or squeeze the breathing tube so it does not pass air, and gently inhale for about 10 seconds. Any inward rushing of air indicates a poor fit. Note that a leaking facepiece may be drawn tightly to the face to form a good seal, giving a false indication of adequate fit.
 - To conduct a positive pressure test, gently exhale while covering the exhalation valve to ensure that a positive pressure can be built up. Failure to build a positive pressure indicates a poor fit.
- 7. Depending on type of suit:
 - Put on inner gloves (surgical gloves).
 - Additional overgloves, worn over attached suit gloves, may be donned later.
- 8. Put on hard hat
- 9. Have assistant observe the wearer for a period of time to ensure that the wearer is comfortable, psychologically stable, and that the equipment is functioning properly.
- Doffing an Ensemble

Exact procedures for removing Level C ensembles must be established and followed to prevent contaminant migration from the work area and transfer of contaminants to the wearer's body, the doffing assistant, and others. Doffing procedures are provided in Table C.1.9.2. These procedures should be performed only after decontamination of the suited worker. They require a suitably attired assistant. Throughout the procedures, both worker and assistant should avoid any direct contact with the outside surface of the suit.



TABLE C.1.9.2 DOFFING PROCEDURES

- 1. Remove any extraneous or disposable clothing, boot covers, outer gloves, and tape.
- 2. Remove respirator by loosening straps and pulling straps over the top of the head and move mask away from head. Do not pull mask over the top of the head.
- 3. Remove arms, one at a time, from suit, avoiding any contact between the outside surface of the suit and wearer's body and lay the suit out flat behind the wearer. Leave internal gloves on, if any.
- 4. Sitting, if possible, remove both legs from the suit.
- 5. After suit is removed, remove internal gloves by rolling them off the hand, inside out.

Respirator Fit Testing

The fit or integrity of the facepiece-to-face seal of a respirator affects its performance. Most facepieces fit only a certain percentage of the population; thus, each facepiece must be tested on the potential wearer in order to ensure a tight seal. Facial features such as scars, hollow temples, very prominent cheekbones, deep skin creases, dentures or missing teeth, and the chewing of gum and tobacco may interfere with the respirator-to-face seal. A respirator shall not be worn when such conditions prevent a good seal. The worker's diligence in observing these factors shall be evaluated by periodic checks. Fit testing will comply with 29 CFR 1910.1025 regulations.

Inspection

The PPE inspection program will entail five different inspections:

- Inspection and operational testing of equipment received from the factory or distributor;
- Inspection of equipment as it is issued to workers;
- Inspection after use;
- Periodic inspection of stored equipment; and
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise.

The inspection checklist is provided in Table C.1.9.3. Records will be kept of all inspection procedures. Individual identification numbers will be assigned to all reusable pieces of equipment and records should be maintained by that number. At a minimum, each inspection should record the ID number, date, inspector, and any unusual conditions or findings. Periodic review of these records may indicate an item or type of item with excessive maintenance costs or a particularly high level of down-time.



TABLE C.1.9.3 PPE INSPECTION CHECKLIST

CLOTHING

Before use:

- Determine that the clothing material is correct for the specified task at hand.
- Visually inspect for imperfect seams, non-uniform coatings, tears, and/or malfunctioning closures.
- Hold up to light and check for pinholes.
- Flex product and observe for cracks or other signs of deterioration.
- If the product has been used previously, inspect inside and out for signs of chemical attack, including discoloration, swelling, and/or stiffness.

During the work task, periodically inspect for:

- Evidence of chemical attack such as discoloration, swelling, stiffening, and softening. Keep in mind, however, that chemical permeation can occur without any visible effects.
- Indication of physical damage, including closure failure, tears, punctures, and/or seam discontinuities.

GLOVES

Before use:

• Pressurize glove to check for pinholes. Either blow into glove, then roll gauntlet toward fingers, or inflate glove and hold under water. In either case, no air should escape.

AIR-PURIFYING RESPIRATORS

- Inspect air-purifying respirators before each use to be sure they have been adequately cleaned.
- Check material conditions for signs of pliability, deterioration, and/or distortion.
- Examine cartridges to ensure that they are the proper type for the intended use, the expiration date has not been passed, and they have not been opened or used previously.
- Check faceshields and lenses for cracks, crazing, and/or fogginess.
- Air-purifying respirators will be stored individually in resealable plastic bags.

<u>Storage</u>

Clothing and respirators will be stored properly to prevent damage or malfunction due to exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact. Storage procedures are as follows:

- Clothing: Potentially-contaminated clothing will be stored in a well-ventilated area separate from street clothing, with good air flow around each item, if possible. Different types and materials of clothing and gloves will be stored separately to prevent issuing the wrong materials by mistake, and protective clothing will be folded or hung in accordance with manufacturer's recommendations.
- Respirators: After each use air-purifying respirators will be dismantled, washed, and placed in sealed plastic bags.

PPE Maintenance

Specialized PPE maintenance will be performed only by the factory or an authorized repair person. Routine maintenance, such as cleaning, will be performed by the personnel to whom the equipment is assigned. Respirators will be cleaned at the end of each day with alcohol pads or, preferably, by washing with warm soapy water.

Decontamination Methods

All personnel, clothing, equipment, and samples leaving the work zone area of the Site must be decontaminated to remove any harmful chemicals that may have adhered to them. Decontamination methods either (1) physically remove contaminants (2) inactivate contaminants by chemical detoxification or disinfection/sterilization, or (3) remove contaminants by a combination of both physical and chemical means. In many cases, gross contamination can be removed by physical means involving dislodging/displacement, rinsing, wiping off, and evaporation. Contaminants that can be removed by physical means include dust, vapors, and volatile liquids. All reusable equipment will be decontaminated by rinsing in a bath of detergent and water (respirators, gloves to be reused). Monitoring equipment will be decontaminated by wiping with paper towels and water. All used PPE to be discarded will be disposed offsite as solid waste.

The effectiveness of the decontamination will be evaluated near the beginning of Site activities and will be modified if determined to be ineffective. Visual observation will be used for this purpose. The HSO will inspect decontaminated materials for discoloration, stains, corrosive effects, visible dirt, or other signs of possible residual contamination.

C.2 Community Air Monitoring Plan

This Community Air Monitoring Plan (CAMP) will be implemented at the Site by FPM during the intrusive investigation activities, including soil borings, vertical profiling, well installation, soil vapor implant installation, and sampling. Due to the nature of the PFAS impacts identified at the Site, there is little potential for organic vapor emissions as the intrusive activities occur. However, there is the potential for dust to be associated with intrusive activities. To address these potential concerns, organic vapor monitoring and dust monitoring will be performed.

Any CAMP monitoring results that exceed the action levels described below will be reported (or notice provided by another arrangement acceptable to the NYSDEC) when identified if a NYSDEC



representative is present at the Site or within two hours by phone call or email to the NYSDEC Project manager when no NYSDEC representative is onsite. Exceedances of the CAMP action levels will also be summarized in the monthly progress reports, including the duration of the exceedance(s) and any response actions taken.

C.2.1 Organic Vapor Monitoring

Under the CAMP, organic vapor concentrations will be monitored at the boundaries of the work zone. It will be the responsibility of the HSO to implement the plan and to ensure that proper action is taken in the event that any of the established action levels are exceeded.

To monitor organic vapors, a PID capable of calculating 15-minute running average concentrations will be used and maintained in good operating condition. Calibration of the PID will be performed according to manufacturer's instructions. Background levels of organic vapors will be measured at the work zone boundary prior to beginning work and upwind of the work area periodically using a PID. Monitoring may be performed more frequently at the discretion of the HSO. Organic vapors will be monitored continuously at the downwind perimeter of the work area during ground intrusive activities.

PID readings will be recorded in the field logbook for both background and work area perimeter. Logbook recordings will include the time, location, and PID readings observed. Downwind perimeter levels will be recorded in the log whenever the level reaches 5 ppm above the background along with the action(s) taken to mitigate the level. If the level of organic vapors exceeds 5 ppm above the background at the downwind perimeter of the work area, work activities will be halted and monitoring continued. The vapor emission response plan will then be implemented.

C.2.1.1 Vapor Emission Response Plan

The vapor emission response plan includes the following trigger levels and responses:

• Greater than 5 ppm at perimeter:

In the event the level of organic vapors exceeds 5 ppm above the background at the downwind perimeter of the work area, activities will be halted and monitoring continued. If the organic vapor level then decreases to below 5 ppm above background, work activities can resume but organic vapor readings will be obtained more frequently as directed by the HSO.

• <u>5 ppm to 25 ppm at perimeter and less than 5 ppm at the work zone boundary</u>:

If the level of organic vapors is greater than 5 ppm but less than 25 ppm over background at the downwind perimeter of the work area, activities will be halted, the source of the vapors will be identified and corrective actions will be taken. Monitoring will be continued and activities will resume if the organic vapor concentration at half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm over background. More frequent intervals of monitoring will be performed as directed by the HSO.

Above 25 ppm at perimeter:

If the level of organic vapors is above 25 ppm at the perimeter of the work area, activities will be shut down. Should such a shutdown be necessary, downwind air monitoring will continue as directed by the HSO to confirm that organic vapor concentrations decrease. Actions will be taken to abate the source of vapor emissions and activities will not resume until the source is controlled.



C.2.1.2 Major Vapor Emission Response Plan

The Major Vapor Emission Response Plan shall automatically be placed into effect if:

- Efforts to abate the emission source are unsuccessful and levels above 5 ppm persist for more than 30 minutes in the 20-foot zone; or
- The vapor levels are greater than 10 ppm above background in the 20-foot zone.

Upon activation of the Major Vapor Emission Response Plan, the following activities will be undertaken:

- All emergency response contacts as listed in the HASP will be notified;
- Air monitoring will be conducted at 30-minute intervals within the 20-foot zone. If two successive readings below action levels are measured, air monitoring will be halted or modified as directed by the HSO; or
- If air monitoring readings remain above action levels, work will be halted and further measures taken to reduce organic vapors.

If a Major Vapor Emission Response Plan is implemented, the NYSDEC and NYSDOH will be contacted within 24 hours.

C.2.2 Dust Monitoring

Dust (particulate) monitoring will be performed during intrusive activities with the potential to create dust by using a Miniram personal monitor calibrated according to the manufacturer's instructions. The Miniram will be capable of calculating 15-minute running average concentrations and operated continuously at the downwind perimeter of the work zone during ground intrusive activities. To ensure the validity of the fugitive dust measurements, appropriate QA/QC measures will be employed, including periodic instrument calibration, operator training, daily instrument performance (span) checks, and record-keeping on daily log sheets. If measurable dust levels are noted, then readings will also be obtained upwind of the work zone. If the downwind particulate level exceeds the upwind level by more than 100 micrograms per cubic meter (ug/m³), then dust suppression techniques will be employed or work will be halted or controlled such that dust levels are reduced at the downwind perimeter to within 150 ug/m³ of the upwind level.

If dust is generated during boring, vertical profiling, or installation activities, then dust suppression will be performed, as discussed in Section C.1.6 of this HASP. Corrective measures may include increasing the level of PPE for onsite personnel and implementing additional dust suppression techniques. Should the action level of 150 μ g/m³ continue to be exceeded, work will stop and the NYSDEC will be notified as described in Section C.2 above. The notification will include a description of the control measures implemented to prevent further exceedances.

Reasonable fugitive dust suppression techniques will be employed during all intrusive Site activities that may generate fugitive dust. Particulate (fugitive dust) monitoring will be employed during the handling of contaminated soil or when onsite activities may generate fugitive dust from exposed contaminated soil.

Fugitive dust from contaminated soil that migrates offsite has the potential for transporting contaminants offsite. Although there may be situations when the monitoring equipment does not measure dust at or



above the action level, visual observation may indicate that dust is leaving the Site. If dust is observed leaving the working area, additional dust suppression techniques will be employed.

The following techniques have been shown to be effective for controlling the generation and migration of dust during intrusive investigation activities and will be used as needed during investigation activities at the Site:

- Wetting equipment and exposed soil;
- Restricting vehicle speeds to 10 mph;
- Covering areas of exposed soil after investigation activity ceases; and
- Reducing the size and/or number of areas of exposed soil.

When techniques involving water application are used, care will be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will be considered to prevent overly wet conditions, conserve water, and provide an effective means of suppressing fugitive dust.

Evaluation of weather conditions is also necessary for proper fugitive dust control. When extreme wind conditions may make dust control ineffective, investigation actions may be suspended until wind speeds are reduced.

C.2.3 Noise Monitoring

Due to the use of heavy equipment, there is a potential for noise to impact the surrounding community. Work will be performed only during normal working hours when ambient noise levels may be elevated due to ongoing activities in the surrounding community, much of which is commercial and industrial. Therefore, the potential for noise impacts on the surrounding community is low.

However, if pedestrians are present in the Site vicinity or work is performed near residences, it is possible for noise impacts to occur. To address these concerns and other safety concerns, pedestrians will be barred from entering the work zone and work will be conducted during normal working hours. In addition, the HSO will periodically monitor noise levels at the work zone boundary and the closest property boundary with a Realistictm hand-held sound level meter. Noise levels will be monitored in dBs in the A-weighted, slow-response mode. If noise level readings exceed an eight-hour time-weighted average of 85 dB at the work zone boundary or at the closest property boundary, the HSO will take appropriate measures to reduce noise exposure beyond these boundaries. These measures may include extension of the work zone boundary, issuing appropriate hearing protection devices as discussed in Section C.1.6 of this work plan, or other measures, as appropriate. In the event that the noise exposure measures are inadequate, work will cease until noise levels can be reduced to below 85 dB at the work zone boundary and/or at the closest property boundary.

