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# 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 |
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## 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 |
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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 |
| I.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 |
| 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 |
| 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.


December 30, 2018

Daniel Servetas
Registered Professional Engineer
New York License No. 079068

Date

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# 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 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. 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 E and Area B) | EH-E | Location of a plane that crash landed | Initial Phase |
| | EH-B | Fire Department mass casualty exercise using AFFF and small bus | Initial Phase |
| | EH-E1 | Upgradient of EH-E | Second Phase |
| | EH-B1 | Downgradient of EH-B | Second Phase |
| Airport Parking Lot (Parcel 16) | 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 | MW-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:

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 good source of drinking water; and
3. 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 $4.0 \times 10^{-4}$ 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.

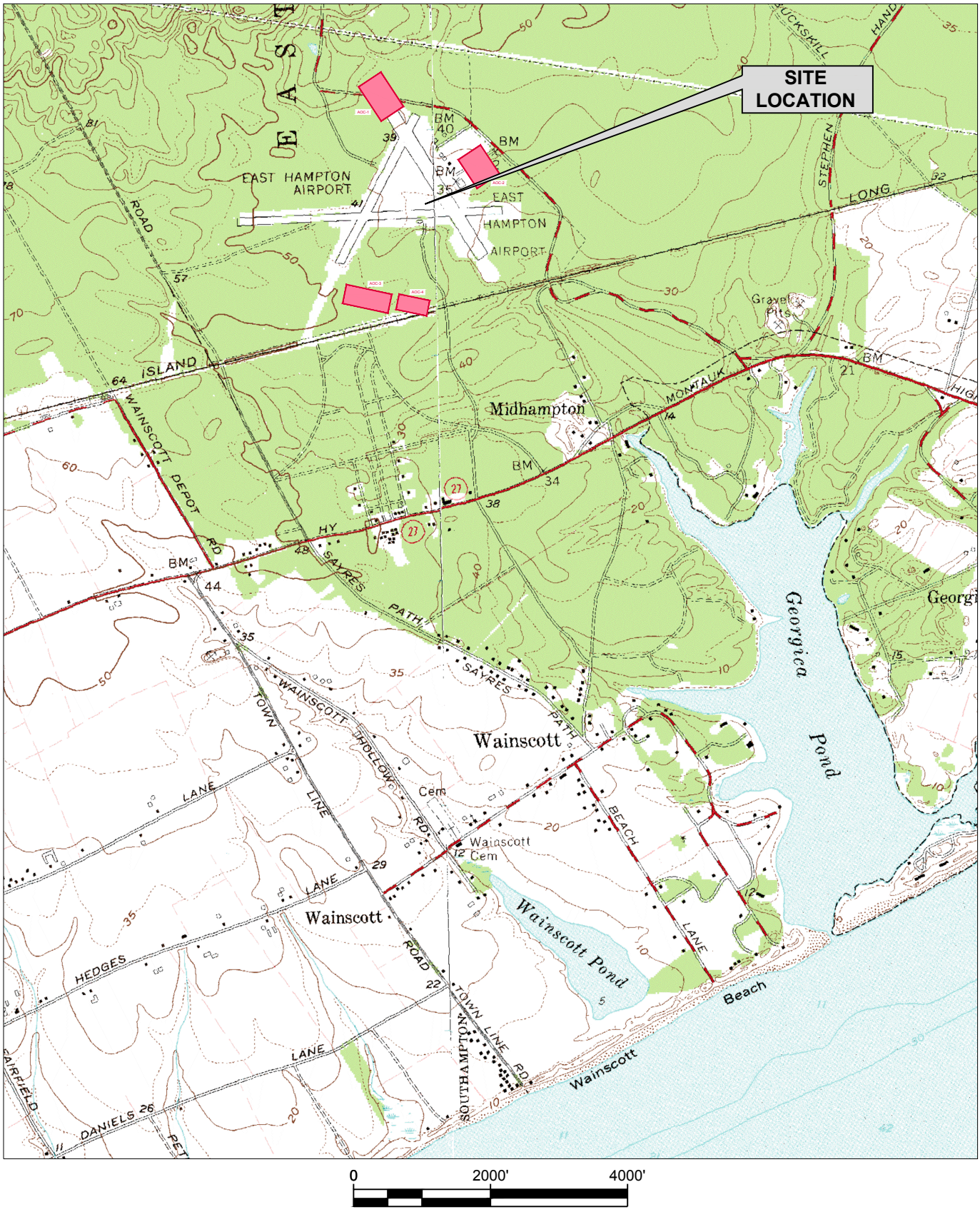
## 5.2 Recommendations

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**

AECOM

**Figure: 1**

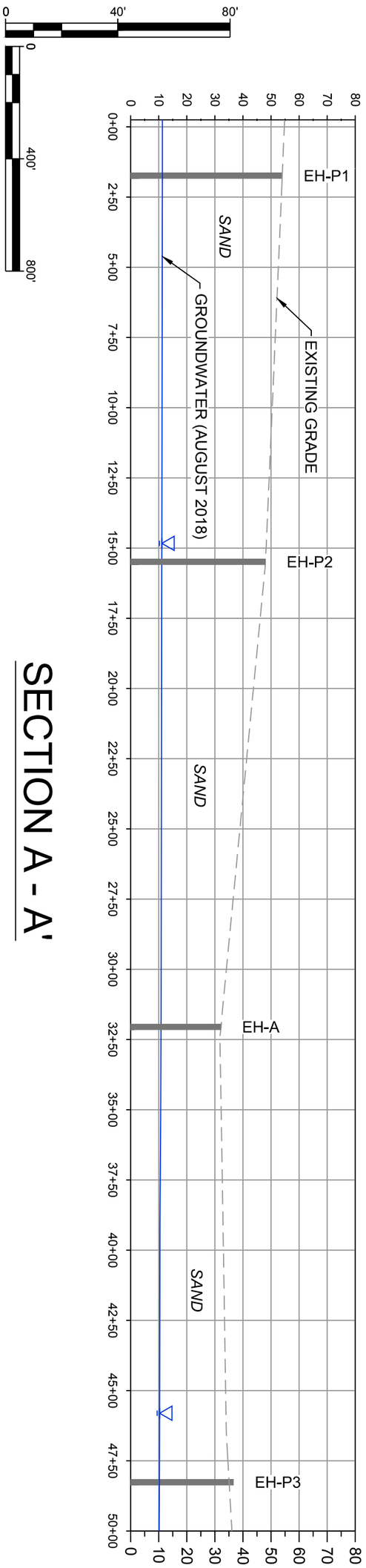

PLAN

**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**




# SECTION A - A'

**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'**

AECOM

**Figure: 3**

Last saved by: MEISTERK(2018-11-15) Last Plotted: 2018-11-15
Filename: D:_AECOM-WORKING\60566160_EAST_HAMPTON_AP\910 CAD_BIM\20-SHEETS\C\DRAFT-GW-REPORT-2018.DWG

Project Management Initials: Designer: KAM Checked:____ Approved:____ ANSI B 11" x 17"


**EAST HAMPTON AIRPORT**
**SITE CHARACTERIZATION REPORT**
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
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**GROUNDWATER CONTOUR MAP**
**AUGUST 2018**

AECOM

**Figure: 4**

## LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

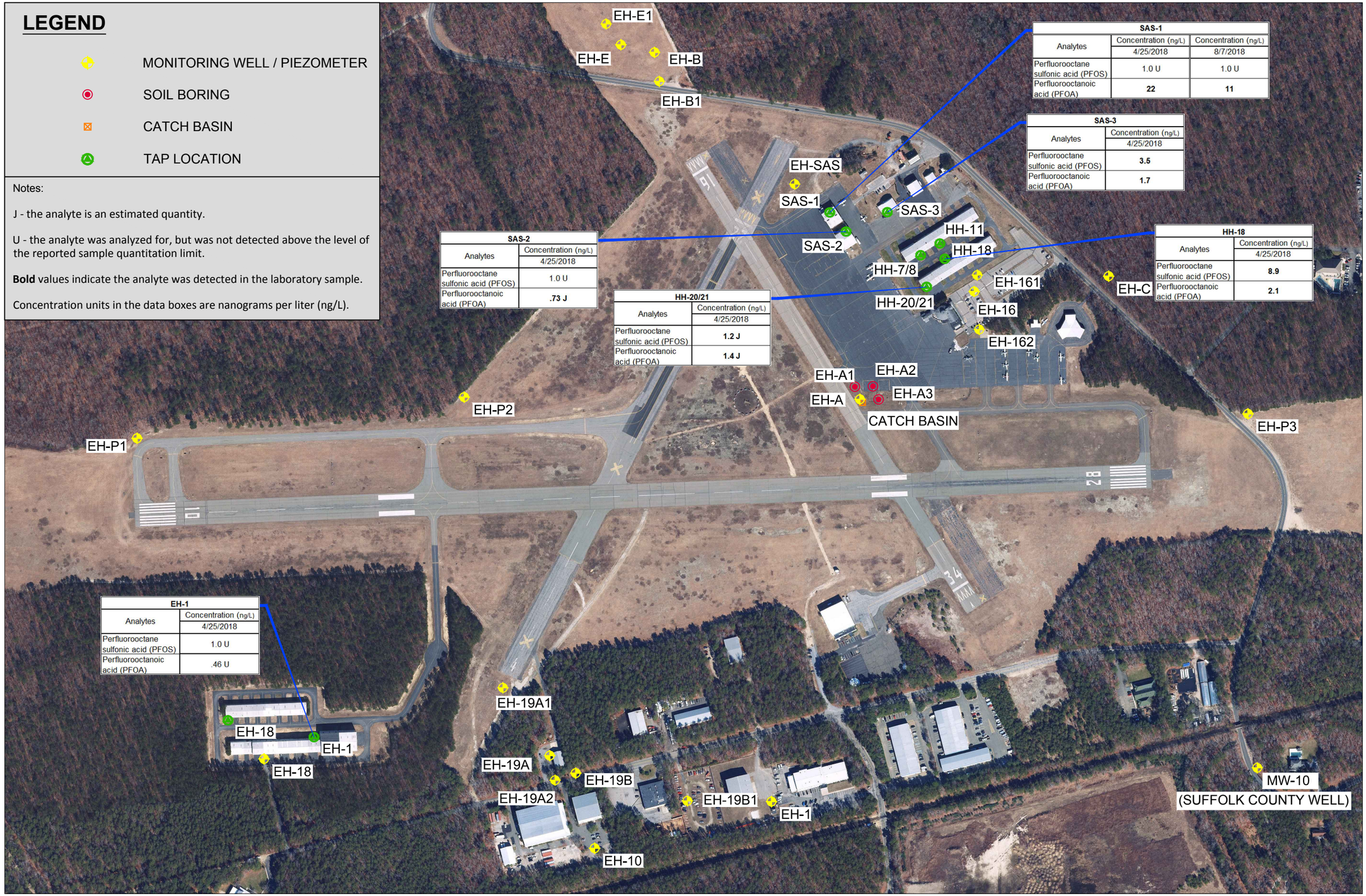
Notes:

J - the analyte is an estimated quantity.

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

**Bold** values indicate the analyte was detected in the laboratory sample.

Concentration units in the data boxes are nanograms per liter (ng/L).




**SAS-1**

| Analytes | Concentration (ng/L) 4/25/2018 | Concentration (ng/L) 8/7/2018 |
|---|---|---|
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.0 U |
| Perfluorooctanoic acid (PFOA) | **22** | **11** |

**SAS-3**

| Analytes | Concentration (ng/L) 4/25/2018 |
|---|---|
| Perfluorooctane sulfonic acid (PFOS) | **3.5** |
| Perfluorooctanoic acid (PFOA) | **1.7** |

**SAS-2**

| Analytes | Concentration (ng/L) 4/25/2018 |
|---|---|
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | **.73 J** |

**HH-18**

| Analytes | Concentration (ng/L) 4/25/2018 |
|---|---|
| Perfluorooctane sulfonic acid (PFOS) | **8.9** |
| Perfluorooctanoic acid (PFOA) | **2.1** |

**HH-20/21**

| Analytes | Concentration (ng/L) 4/25/2018 |
|---|---|
| Perfluorooctane sulfonic acid (PFOS) | **1.2 J** |
| Perfluorooctanoic acid (PFOA) | **1.4 J** |

**EH-1**

| Analytes | Concentration (ng/L) 4/25/2018 |
|---|---|
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

0 400' 800'

# PLAN

**TAP WATER ANALYTICAL RESULTS**

AECOM

Figure: 5

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

## LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

Notes:

J - the analyte is an estimated quantity.

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

**Bold** values indicate the analyte was detected in the laboratory sample.

Concentration units in the data boxes are nanograms per gram (ng/g).

EH-E1

EH-E

EH-B

EH-B1

EH-SAS

SAS-1

SAS-2

SAS-3

HH-11

HH-18

HH-7/8

HH-20/21

EH-161

EH-16

EH-C

EH-162

EH-P3

EH-A1

EH-A2

EH-A3

EH-A

CATCH BASIN

EH-P2

EH-P1

EH-19A1

EH-18

EH-1

EH-18

EH-19A

EH-19A2

EH-19B

EH-19B1

EH-1

EH-10

MW-10
(SUFFOLK COUNTY WELL)

| EH-E | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 4/30/2018 | |
| | 0-1' | 23-24' |
| Perfluorooctane sulfonic acid (PFOS) | **3.6** | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-B | | | |
|---|---|---|---|
| Analytes | Concentration (ng/g) | | |
| | 4/30/2018 | | |
| | 0-1' | 19-20' | 26-27' |
| Perfluorooctane sulfonic acid (PFOS) | **4.0** | .18 U | .18 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .19 U | .19 U |

| EH-E1 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/8/2018 | |
| | 0-1' | 26-27' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .20 U |
| Perfluorooctanoic acid (PFOA) | **.33 J** | .21 U |

| EH-161 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/8/2018 | |
| | 0-1' | 28-29' |
| Perfluorooctane sulfonic acid (PFOS) | **.33 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | **.26 J** | .18 U |

| EH-B1 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/8/2018 | |
| | 0-1' | 26-27' |
| Perfluorooctane sulfonic acid (PFOS) | **1.9** | **.75 J** |
| Perfluorooctanoic acid (PFOA) | **.35 J** | .18 U |

| EH-16 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 4/30/2018 | |
| | 0-1' | 23-24' |
| Perfluorooctane sulfonic acid (PFOS) | **.72 J** | **.29 J** |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-SAS | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/8/2018 | |
| | 0-1' | 24-25' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-A2 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/2/2018 | |
| | 0-1' | 23-24' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-C | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/1/2018 | |
| | 0-1' | 29-30' |
| Perfluorooctane sulfonic acid (PFOS) | .18 U | .18 U |
| Perfluorooctanoic acid (PFOA) | **.23 J** | .19 U |

| EH-A1 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/2/2018 | |
| | 0-1' | 23-24' |
| Perfluorooctane sulfonic acid (PFOS) | **.34 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-162 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/9/2018 | |
| | 0-1' | 24-25' |
| Perfluorooctane sulfonic acid (PFOS) | **.20 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-A3 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/2/2018 | |
| | 0-1' | 22-23' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-A | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/2/2018 | |
| | 0-1' | 22-23' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-19A1 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/9/2018 | |
| | 0-1' | 34-35' |
| Perfluorooctane sulfonic acid (PFOS) | .18 U | .18 U |
| Perfluorooctanoic acid (PFOA) | .19 U | .19 U |

| EH-19A | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/4/2018 | |
| | 0-1' | 31-32' |
| Perfluorooctane sulfonic acid (PFOS) | **3.9** | .18 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .19 U |

| EH-19B | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/3/2018 | |
| | 0-1' | 36-37' |
| Perfluorooctane sulfonic acid (PFOS) | **.22 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | **.42 J** | .18 U |

| EH-18 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/3/2018 | |
| | 0-1' | 41-42' |
| Perfluorooctane sulfonic acid (PFOS) | **.54 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-19A2 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 8/9/2018 | |
| | 0-1' | 34-35' |
| Perfluorooctane sulfonic acid (PFOS) | .17 U | .17 U |
| Perfluorooctanoic acid (PFOA) | **.20 J** | .18 U |

| EH-1 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/1/2018 | |
| | 0-1' | 32-33' |
| Perfluorooctane sulfonic acid (PFOS) | **10** | **.19 J** |
| Perfluorooctanoic acid (PFOA) | .18 U | .18 U |

| EH-10 | | |
|---|---|---|
| Analytes | Concentration (ng/g) | |
| | 5/1/2018 | |
| | 0-1' | 33-34' |
| Perfluorooctane sulfonic acid (PFOS) | **.64 J** | .17 U |
| Perfluorooctanoic acid (PFOA) | .19 U | .18 U |

| EH-B1 | |
|---|---|
| Analytes | Concentration (ng/g) |
| | 8/8/2018 |
| | 0-1' |
| Perfluorooctane sulfonic acid (PFOS) | **12** |
| Perfluorooctanoic acid (PFOA) | **3.8** |

# PLAN

0 400' 800'

SOIL ANALYTICAL RESULTS

AECOM

Figure: 6

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

Project Management Initials: Designer: KAM Checked:____ Approved:____ ANSI B 11" x 17"

Last saved by: MEISTERK(2018-11-15) Last Plotted: 2018-11-15
Filename: D:_AECOM-WORKING\60566160_EAST_HAMPTON_AP\910 CAD_BIM\20-SHEETS\CD\RAFT-GW-REPORT-2018.DWG

## LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

Notes:

J - the analyte is an estimated quantity.

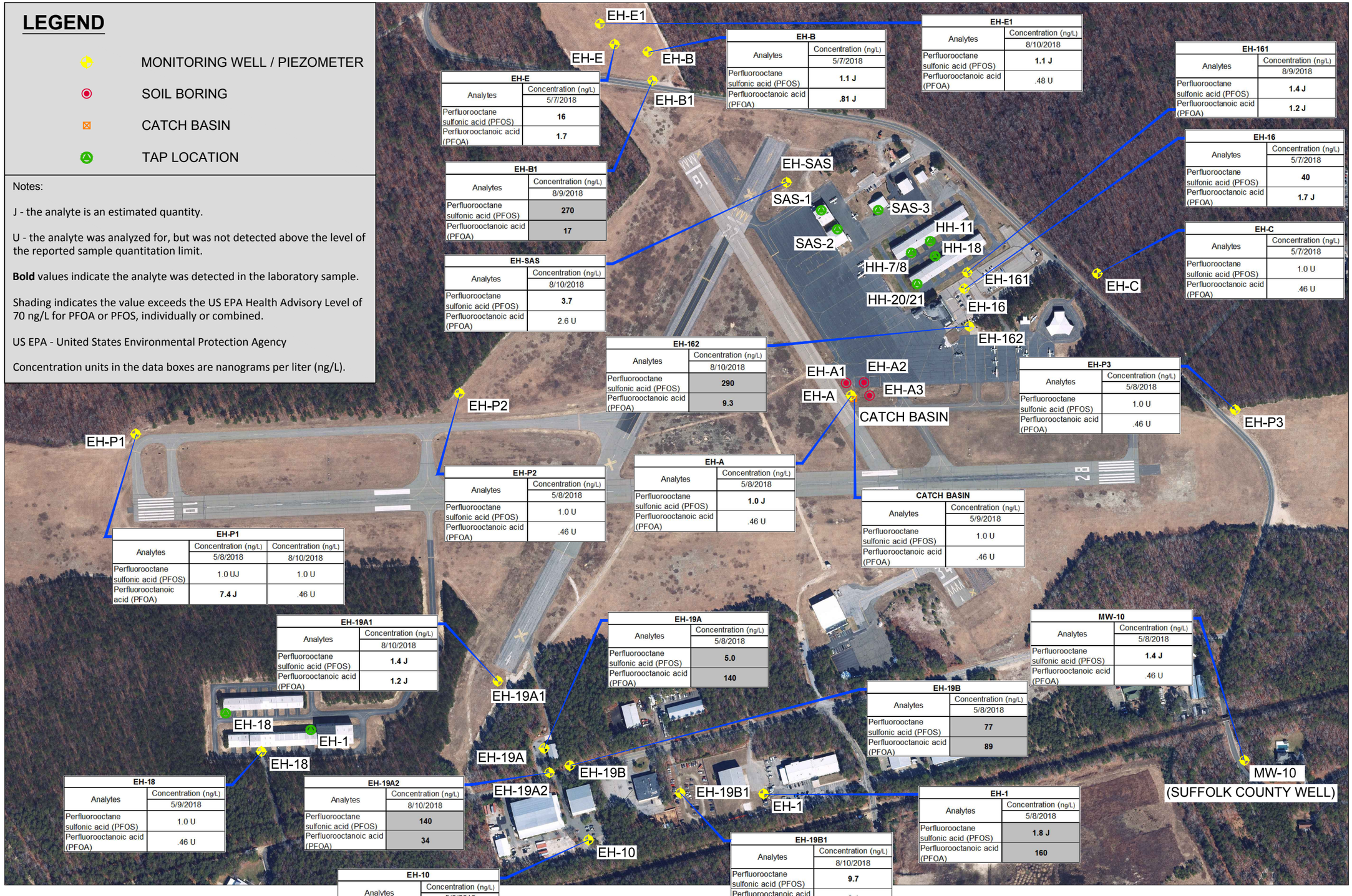
U - the analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

**Bold** values indicate the analyte was detected in the laboratory sample.

Shading indicates the value exceeds the US EPA Health Advisory Level of 70 ng/L for PFOA or PFOS, individually or combined.

US EPA - United States Environmental Protection Agency

Concentration units in the data boxes are nanograms per liter (ng/L).




| EH-E | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/7/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **16** |
| Perfluorooctanoic acid (PFOA) | **1.7** |

| EH-B | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/7/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.1 J** |
| Perfluorooctanoic acid (PFOA) | **.81 J** |

| EH-E1 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.1 J** |
| Perfluorooctanoic acid (PFOA) | .48 U |

| EH-161 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/9/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** |
| Perfluorooctanoic acid (PFOA) | **1.2 J** |

| EH-16 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/7/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **40** |
| Perfluorooctanoic acid (PFOA) | **1.7 J** |

| EH-C | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/7/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-B1 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/9/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **270** |
| Perfluorooctanoic acid (PFOA) | **17** |

| EH-SAS | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **3.7** |
| Perfluorooctanoic acid (PFOA) | 2.6 U |

| EH-162 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **290** |
| Perfluorooctanoic acid (PFOA) | **9.3** |

| EH-P3 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-P1 | | |
|---|---|---|
| Analytes | Concentration (ng/L) | Concentration (ng/L) |
| | 5/8/2018 | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 UJ | 1.0 U |
| Perfluorooctanoic acid (PFOA) | **7.4 J** | .46 U |

| EH-P2 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-A | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.0 J** |
| Perfluorooctanoic acid (PFOA) | .46 U |

| CATCH BASIN | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/9/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-19A1 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** |
| Perfluorooctanoic acid (PFOA) | **1.2 J** |

| EH-19A | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **5.0** |
| Perfluorooctanoic acid (PFOA) | **140** |

| MW-10 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-19B | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **77** |
| Perfluorooctanoic acid (PFOA) | **89** |

| EH-18 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/9/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-19A2 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **140** |
| Perfluorooctanoic acid (PFOA) | **34** |

| EH-1 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **1.8 J** |
| Perfluorooctanoic acid (PFOA) | **160** |

| EH-10 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 5/8/2018 |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U |
| Perfluorooctanoic acid (PFOA) | .46 U |

| EH-19B1 | |
|---|---|
| Analytes | Concentration (ng/L) |
| | 8/10/2018 |
| Perfluorooctane sulfonic acid (PFOS) | **9.7** |
| Perfluorooctanoic acid (PFOA) | **2.1** |

# PLAN

0 400' 800'

AECOM

Figure: 7

GROUNDWATER ANALYTICAL RESULTS

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

Project Management Initials: Designer: KAM Checked:____ Approved:____ ANSI B 11" x 17"

## LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION
- AREA OF CONCERN (AOC)


0 400' 800'

# PLAN

AECOM
Figure: 8

IDENTIFIED AREAS OF CONCERN

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

# TABLES

| Analytes | Health Advisory Water Quality Standards[1] | Groundwater Sample Data | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Area | North Field | | | | Sound Aircraft Services | Airport Parking Lot | | | Northwest Woods | Daniels Hole Road | East Hampton PD | ARFF | |
| | | 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** | | | | | | | | | | | | | | | |
| 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 | | **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** | | | | | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | NS | | **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 | | .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 | | 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** | | | | | | | | | | | | | | | |
| Perfluorooctane 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 | | .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** | | | | | | | | | | | | | | | |
| 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 | | .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)

| Analytes | Health Advisory Water Quality Standards[1] | Groundwater Sample Data | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Area | ARFF | | | Aircraft/Helicopter Taxiway | | West End of Main Runway | | Middle of Main Runway | East Field | Local Television Inc. | East End Hangars |
| | | MW ID | EH-19A2 | EH-19B | EH-19B1 | EH-A | CATCH BASIN | EH-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** | | | | | | | | | | | | | |
| 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 | | 1.3 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** | | | | | | | | | | | | | |
| 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 | | **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 | | .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** | | | | | | | | | | | | | |
| Perfluorooctane 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 | | **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 |

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)

| Analytes | Health Advisory Water Quality Standards[1] | Area | QA/QC Samples | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW ID | DUP | | EQUIPMENT BLANK | | | | FIELD BLANK | | | 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** | | | | | | | | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | NS | | .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 | | .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 | | 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 | | 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 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 | | .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 | | .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 | | .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 | | 1.2 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** | | | | | | | | | | | | | | | |
| 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 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 | | .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** | | | | | | | | | | | | | | | |
| 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 |

Notes:
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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)

Table 2
Tap Water Sample Data

East Hampton Airport
200 Daniels Hole Rd
Wainscott, New York

| Analytes | Health Advisory Water Quality Standards[1] | Tap Water Sample Data | | | | | | | | QA/QC SAMPLES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Area | Hampton Hangars | | Sound Aircraft Services | | | | East Hampton Hangars | | | |
| | | Sample ID | HH-20/21 | HH-18 | SAS-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:
NS - No standard exists
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.
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)
1 - United States Environmental Protection Agency-established Drinking Water Health Advisory Level

| Analytes | Soil Sample Data | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Area** | **North Field** | | | | | | | | | **Sound Aircraft Services** | | **Airport Parking Lot** | | | | | | **Northwest Woods** | | **East Hampton PD** | |
| **Boring ID** | **EH-B** | | | **EH-B1** | | **EH-E** | | **EH-E1** | | **EH-SAS** | | **EH-16** | | **EH-161** | | **EH-162** | | **EH-C** | | **EH-1** | |
| **Date** | 4/30/2018 | | | 8/8/2018 | | 4/30/2018 | | 8/8/2018 | | 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) | **.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) | .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** | | | | | | | | | | | | | | | | | | | | | |
| 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** | | | | | | | | | | | | | | | | | | | | | |
| 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 acid | .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 U | .087 U | .085 U | .085 U |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | .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** | | | | | | | | | | | | | | | | | | | | | |
| 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 |

Notes:

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)

| Analytes | Area | Soil Sample Data | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Local Television Inc. | | Aircraft/ Helicopter Taxiway | | | | | | | | East End Hangars | | ARFF | | | | | | | |
| | Boring ID | EH-10 | | EH- A | | EH- A1 | | EH-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** | | | | | | | | | | | | | | | | | | | | | |
| 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** | | | | | | | | | | | | | | | | | | | | | |
| 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** | | | | | | | | | | | | | | | | | | | | | |
| 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 sulfonamidoacetic acid | | .086 U | .085 U | .085 U | .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 | 0.09 UJ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | | .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** | | | | | | | | | | | | | | | | | | | | | |
| 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 |

Notes:

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)

| Analytes | Area | QA/QC Samples | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Boring ID | 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 | MS/MSD 2 | MS/MSD |
| | Date | 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 | 5/2/2018 | 5/2/2018 | 8/8/2018 |
| | Boring Interval (fbg) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | | | | | | | | | |
| 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 | 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** | | | | | | | | | | | | | | | | |
| 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 | .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** | | | | | | | | | | | | | | | | |
| 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 acid | | .085 U | .085 U | **.33 J** | 4.2 U | 4.2 U | 4.2 U | 4.2 U | 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 | | .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** | | | | | | | | | | | | | | | | |
| 6:2 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 |

Notes:

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)

# APPENDICES

# APPENDIX A

## Field Photographs

# Past Photographs

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: unknown<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Photo of plane crash in the north field of the airport property, near well location EH-E


Photo of plane crash in the north field of the airport property, near well location EH-E

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: unknown<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Photo of training exercise performed by the local fire department, near well EH-B

Photo of training exercise performed by the local fire department, near well EH-B

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: unknown<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Photo of mass casualty training exercise performed by the local fire department, near well EH-16

Photo of mass casualty training exercise performed by the local fire department, near well EH-16

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: unknown<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Photo of mass casualty training exercise performed by the local fire department, near well EH-16

Photo of mass casualty training exercise performed by the local fire department, near well EH-16

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: unknown<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Photo of mass casualty training exercise performed by the local fire department, near well EH-16

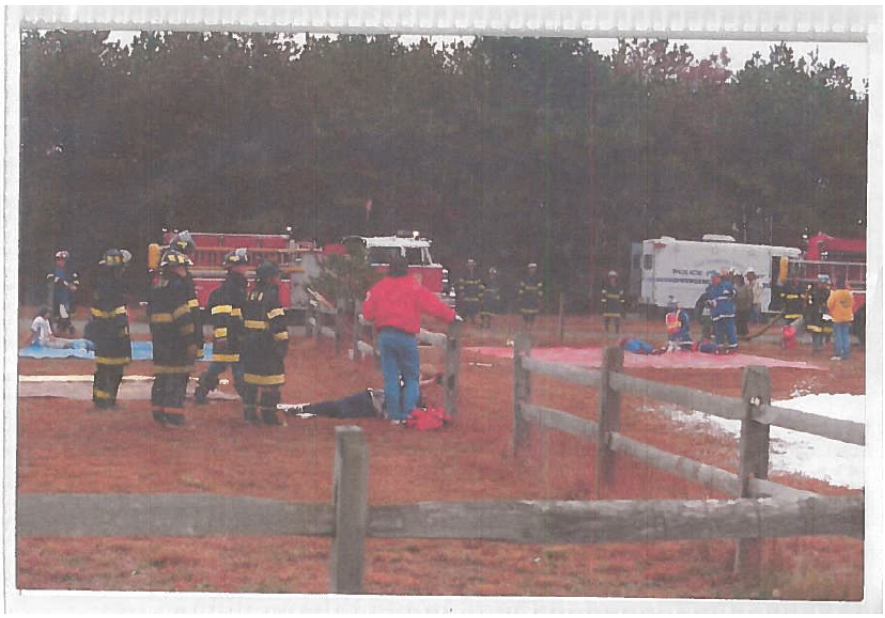


Photo of fire department response to car fire, near well EH-A

# Subcontractors

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: 8/6/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Chris Call from AGS on-site


AGS near EH-SAS

AGS and airport terminal

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/2/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-A

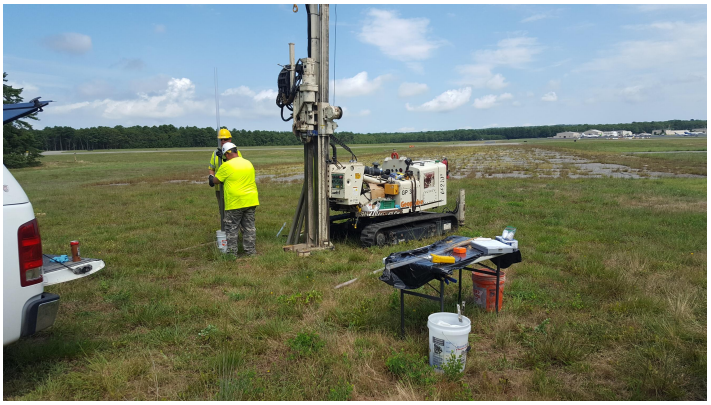
Soil Boring EH-A2

Temp MW EH-P3

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: 8/8-9/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Cascade EH-19A1

Cascade EH-19A1



Cascade EH-161

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/8-9/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

CT Male on-site

CT Male and Greg Dunlavey from AECOM

# Soil Borings

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May-August/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

soil boring from EH-19A1

soil boring from EH-19A

soil boring from EH-P1

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May-August/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

soil boring from EH-P1


soil boring from EH-P1

soil boring from EH-161

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

last foot of soil pulled, obvious presence of groundwater from EH-19B, 37ft below grade

soil boring from EH-19A

soil cuttings and groundwater stored in labeled drums provided by Cascade

# Sampling

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

types of bailers used for groundwater sampling

Attempting to open catch basin for sampling


sampling EH-C

# Temporary Monitoring Wells

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

EH-16

EH-B

EH-E

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

EH-1

EH-10

EH-C

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

EH-P3

EH-A

EH-P2

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: May,2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

EH-18

EH-19B

EH-19A

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Photo Log**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/9/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Town Monitoring Well MW-10

# APPENDIX B

## Daily Reports

| AECOM | East Hampton Airport<br>200 Daniels Hole Rd<br>Wainscott, NY 11975<br>Phone: (518)925-4951<br>Fax: | Daily Report<br>Written By: Alexandra Golden, Geologist<br>DATE: 4/25/2018 |
|---|---|---|

PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: Rainy, foggy 58°

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, bottleware, marking flags. |
| Jim Brundige | Airport Manager | East Hampton Airport | |
| | | | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | Sampling bottleware delivered to East Hampton Airport. |
| | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | AECOM (1) leaves Latham office. |
| 1240 | AECOM arrive on -site, Jim Brundige contacted. |
| 1320 | Arrive at hangar HH-20/21, well sampled. |
| 1352 | Sampled SAS-1. |
| 1400 | Sampled SAS-2, duplicate sample also taken. |
| 1422 | Sampled HH-18, field blank sample taken. |
| 1433 | Sampled SAS-3. |
| 1447 | Sampled EH-1, MS/MSD samples also taken. |
| 1500 | Begin to mark prospective well locations with marking flags. |
| 1715 | Marking well locations complete, AECOM (1) off-site. |
| | |
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| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0800 with Chris Call from AGS the following day.

**SAMPLING PERFORMED:**

HH-20/21 042518, HH-18 042518, SAS-1 042518, SAS-2 042518, SAS-3 042518, EH-1 042518, DUP 042518, MS/MSD 042518, Field Blank 042518.

**QUALITY CONTROL ACTIVITIES:**

Escorted around airport property by Jim Brundige.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Proper PPE for PFAS sampling observed, proper clothing for rainy weather observed.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| AECOM | East Hampton Airport<br>200 Daniels Hole Rd<br>Wainscott, NY 11975<br>Phone: (518)925-4951<br>Fax: | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 4/26/2018 |
|---|---|---|

| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
|---|---|---|
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 50 degrees, mostly cloudy, light mist | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, marking flags |
| Chris Call | Geophysics | AGS | GPR, gps, truck |
| Jim Brundige | Airport Manager | East Hampton Airport | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AGS | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | AECOM (1), AG, on-site |
| 0800 | Chris Call, AGS, on-site |
| 0825 | AECOM and AGS escorted by airport personnel to potential monitoring well locations |
| 0855 | Clear EH-19B, EH-18, EH-P1, EH-P2, EH-A and soil borings: A1,A2,A3 |
| 0920 | USIC no-dig on-site |
| 1130 | Completed with sites inside airport fence |
| 1130 | Clear EH-16, EH-B, EH-E, EH-P3, EH-10, EH-1 and EH-C |
| 1345 | AGS off-site |
| 1350 | AECOM off-site |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed on well locations with John Santacroce beforehand

**SAMPLING PERFORMED:**

**QUALITY CONTROL ACTIVITIES:**

**REQUEST FOR INFORMAITON:**

None.

**TRANSMITTALS/SUBMITALLS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for wet weather that day. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 4/30/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 50 degrees, mostly cloudy, light rain around noon | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware |
| John Santacroce | Senior Scientist | AECOM | |
| Evan Moraits | Driller | Cascade | Flatbed work truck, geoprobe |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| Cascade Drilling | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0850 | AECOM (1), AG, on-site. |
| 0900 | Cascade (2) on-site, move over to location of plane crash and bus fire, review SOW and HASP. Begin setting up equipment, 0930 JS on-site. |
| 1000 | Sample 1 fbg and between 19-20 fbg of MW EH-B. |
| 1015 | Input temporary well. |
| 1020 | USIC no-dig on-site. |
| 1030 | let temporary well sit for ten minutes, dry, drill another 25 fbg in close proximity. |
| 1100 | Take sample 26-27 fbg. MW set to 35 fbg with 10' of screen. |
| 1210 | Setup on EH-E, sample taken on 1 fbg. |
| 1245 | Sample taken 23-24 fbg, 24-25 fbg was saturated. |
| 1255 | MW EH-E set to 30 fbg. |
| 1340 | Move to site EH-16. |
| 1350 | Break for lunch ends at 1410. |
| 1430 | Sample 1 fbg. |
| 1505 | Sample 23-24 fbg. |
| 1510 | Well set to 33 fbg, move to staging area to unload equipment and drums. |
| 1605 | Cascade (2) off-site. |
| 1615 | AECOM (2) off-site. |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0700-0730 the following day.

Staging area allowed to use for drilling equipment confirmed with Airport Manager Jim Brundige.

**SAMPLING PERFORMED:**

EH-B 043018 0-1', EH-B 043018 19-20', EH-B 043018 26-27', EH-E 043018 0-1', EH-E 043018 23-24', EH-16 043018 0-1', and EQ-BLANK 1.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMAITON:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 4/30/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-B.

Temp MW EH-E.

Tempt MW EH-16.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/1/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 65 degrees, sunny | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| John Santacroce | Senior Scientist | AECOM | |
| Evan Moraits | Driller | Cascade | Flatbed work truck, geoprobe. |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| Cascade Drilling | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0700 | AECOM (2) on-site, Cascade stuck in traffic. |
| 0820 | Cascade (2) on-site, review HASP and SOW. |
| 0850 | Set up on site EH-C. |
| 0915 | Take sample from 1 fbg. |
| 0945 | Sample from 29-30 fbg. |
| 0950 | Setting 10' screen at 35 fbg , John S. off-site. |
| 1020 | MW EH-C set. |
| 1050 | Setting up at EH-P3, no soil samples taken here, started drilling to 20 fbg, EQ-BLANK 2 and FIELD BLANK taken. |
| 1120 | Set MW EH-P3 to 30 fbg. |
| 1200 | Lunch ended at 1220. |
| 1240 | EH-1 sampled at 1 fbg, also sampled DUP-1. |
| 1315 | Sampled EH-1 32-33 fbg, taken DUP-2. |
| 1340 | MW EH-1 set. |
| 1405 | Set up on EH-10. |
| 1500 | Sampled from 1 fbg and 32-33 fbg, 33 fbg saturated. |
| 1525 | Temp MW EH-10 set. |
| 1605 | AECOM (2) and Cascade (2) off-site. |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0800 the following day.

Confirmed with Airport Manager Jim Brundige to perform work inside the airport fence on 05/02/2018.

**SAMPLING PERFORMED:**

EH-C 050118 0-1', EH-C 050118 29-30', EH-1 050118 32-33', EH-1 050118 0-1', EH-10 050118 33-34', EH-10 050118 0-1', EQ-BLANK 2, DUP-1, DUP-2 , FIELD BLANK 1.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperaturesin the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/1/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-C.

Temp MW EH-1 and MW EH-P3.

Temp MW EH-10.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/2/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: 75 degrees, sunny

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Evan Moraits | Driller | Cascade | Flatbed work truck, geoprobe. |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| Cascade Drilling | |
| AECOM | |

**SUMMARY OF WORK PERFOMED:**

| TIME | ACTIVITY: |
|---|---|
| 0745 | AECOM (1) on-site, Cascade (1) on-site, truck stuck in traffic, Change cooler ice, Calibrate PID. |
| 0800 | Cascade (2) on-site, review HASP and SOW. |
| 0830 | Set up on site Temp MW EH-A. |
| 0900 | Sample from 0-1 fbg and 20-21 fbg set the well. |
| 0940 | Move to EH-A1 sample 0-1 fbg. |
| 1000 | Saturated at 24 fbg sample 23-24 fbg, MS/MSD taken. |
| 1030 | Filled the hole with bentonite, move to next location (EH-A3). |
| 1055 | Sample 0-1 fbg and 22-23 fbg MS/MSD 2 taken. |
| 1110 | Move to EH-A2. |
| 1145 | Sample 0-1 fbg and 23-24 fbg, fill with bentonite. |
| 1205 | Lunch, ends at 1225, Jim Brundige called to escort us across the runway. |
| 1300 | Set up on EH-P1, drill the first 15' blind. |
| 1350 | 40 fbg saturated set to 40 fbg with 10 ft screen. |
| 1410 | EQ-BLANK 3 taken (Equipment blank). |
| 1430 | Finish setting temp MW. |
| 1450 | Jim Brundige escorts team across the runway to staging area. |
| 1515 | AECOM (1) off-site, Cascade (2) off-site. |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0800 the following day.

Confirmed with Airport Manager Jim Brundige to perform work inside the airport fence on 05/03/2018.

**SAMPLING PERFORMED:**

EH-A 050218 0-1', EH-A 050218 22-23', EH-A1 050218 23-24', EH-A1 050218 0-1',EH-A2 050218 0-1', EH-A2 050218 23-24', EH-A3 050118 22-23', EH-A3 050218 0-1', EQ-BLANK 3, MS/MSD 1 050218, MS/MSD 2 050218.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperaturesin the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/2/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-A.

Soil Boring EH-A2.

Temp MW EH-P3.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/3/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 75 degrees, sunny | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Evan Moraits | Driller | Cascade | Flatbed work truck, geoprobe. |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| Cascade Drilling | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0750 | AECOM (1) on-site,Change cooler ice, Calibrate PID. |
| 0820 | Cascade (2) on-site, review HASP and SOW. |
| 0830 | Meet with Dana from the air managers office to escort us to EH-P1. |
| 0840 | Drill first 20 fbg blind. |
| 1000.0 | Saturated at 40 fbg set 10' screen to 50 fbg. |
| 1005 | Field Blank 2 taken. EQ Blank taken. |
| 1045 | Well is set, wait for airport employee as escort. |
| 1110 | Set up on EH-18, 1120 sample 0-1 fbg. |
| 1223 | Sample 41-42 fbg. |
| 1320 | Set EH-18 to 52 fbg. |
| 1330 | Break for lunch. |
| 1350 | Set up on EH-19B, 1400 sample 0-1 fbg. |
| 1450 | Sample 36-37 fbg. |
| 1530 | Well is set, move to staging area. |
| 1600 | AECOM (1) and Cascade (2) off-site. |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0800 the following day.

**SAMPLING PERFORMED:**

EH-19B 050318 0-1', EH-19B 050318 36-37', EH-18 050318 41-42', EH-18 050318 0-1',FIELD BLANK 2, EQ-BLANK 4.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area

-Soil from borings stored in drums located in staging area

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/3/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-19B, last foot of soil boring.

Soil Boring examples EH-PH1, Large Cobbles and fine brown sand followed by brown yellow sand followed by light brown sand.


Temp MW EH-P1 Mix of med light brown and orange brown sand.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/3/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Temp MW EH-P1.

Soil Boring EH-18.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/4/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: partly cloudy, 55 | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Evan Moraits | Driller | Cascade | Flatbed work truck, geoprobe. |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| Cascade Drilling | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0800 | AECOM (1) on-site, Change cooler ice, Calibrate PID, Cascade ( 2) stuck in traffic. |
| 0845 | Cascade (2) on-site, review HASP and SOW, get equipment from staging and set up on 19A. |
| 0915 | Sample 0-1 fbg. |
| 0955 | Sample 31-32 fbg. |
| 1040 | Set the well, drive to staging area. |
| 1055 | empty dirty water, EQ Blank taken. |
| 1700 | Arrive at FedEx on Wolf Road in Albany to Ship samples. |
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**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet on-site with Greg Dunlavey to sample wells.

**SAMPLING PERFORMED:**

EH-19A 050418 0-1', EH-19A 050418 31-32', EQ-BLANK 5 050418.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

None.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/4/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Medium grained brown moist soil.

Soil Boring examples EH-19A.

Temp MW EH-19A.

| AECOM | East Hampton Airport<br>200 Daniels Hole Rd<br>Wainscott, NY 11975<br>Phone: (518)925-4951<br>Fax: | Daily Report<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/7/2018 |
|---|---|---|

| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
|---|---|---|

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: 65 degrees, cloudy

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Greg Dunlavey | Geologist | AECOM | YSI, NTU, Depth to water meter, bailers. |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0600 | AECOM (2) arrive at the Latham office, load up work truck and drive to site. |
| 1135 | Arrive on-site, discuss HASP and SOW, set up on EH-B. |
| 1315 | Sample EH-B, Set up on EH-E. |
| 1400 | Sample EH-E. |
| 1415 | Set up on EH-16 (parking lot). |
| 1502 | Sample EH-16, EQ Blank taken. |
| 1515 | Set up on EH-C (deer fence). |
| 1600 | Sample EH-C. |
| 1615 | bring dirty water to decon area. |
| 1700 | AECOM (2) off-site. |
| | |
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| | |
| | |
| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet surveyors the following day and sample remaining wells.

**SAMPLING PERFORMED:**

EH-C 050718, EH-E 050718, EH-16 050718, EH-B 050418, FIELD BLANK 050718, EQ-BLANK 050718.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for hot temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/7/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Sampling EH-C.

Drums for water and soil borings in Staging Area.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/8/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 60 degrees, sunny | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Greg Dunlavey | Geologist | AECOM | YSI, NTU, Depth to water meter. |
| Wilver Hernandez | Driller | Cascade | |

| Contractors: | Site Deliveries: |
|---|---|
| CT Male | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | Call from CT Male, en route, confirm meeting location, leave hotel. |
| 0800 | AECOM (2) on-site, review HASP and SOW, calibrate equipment. |
| 0855 | Set up on EH-P3, sample. |
| 0950 | Sample town well MW-10. |
| 1030 | CT Male (2), on-site, set Greg up on 19B, show CT Male well locations. |
| 1146 | Sample EH-19B. |
| 1215 | Set up on EH-A. |
| 1254 | Sample EH-A, take MS/MSD, add water to decon drums. |
| 1402 | Sample EH-19A. |
| 1415 | Jim Brundige escorts us to P2,P3. |
| 1454 | Sample P2, move to P1. |
| 1540 | Sample P1, escorted off runway by Jim Brundige. |
| 1615 | CT Male (2) off-site. |
| 1640 | Sample EH-10. |
| 1650 | Head to decon area to empty purge water. |
| 1650 | AECOM (2) off-site. |

**AGREEMENTS MADE/CONVERSATIONS:**

Agreed to meet at 0700 the following day.

**SAMPLING PERFORMED:**

EH-P3 050818, MW-10 050818, DUP 050818, EH-1 050818, EH-19A 050818, EH-19B 050818, EH-A 050818, MS/MSD 050818, EH-P2 050818, EH-P1 050818, EH-10 050818, FIELD BLANK 050818, EQ-BLANK 050818.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/8/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

CT Male onsite, Greg Dunlavey closing up EH-P1.


Town Well MW-10.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/9/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 50 degrees, foggy | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, PID, bottleware. |
| Greg Dunlavey | Geologist | AECOM | YSI, NTU, Depth to water meter. |
| Eamon Dempsey | Surveyor | CT Male | Survey equipment, gps, truck. |
| Chuck Twiss | Surveyor | CT Male | |

| Contractors: | Site Deliveries: |
|---|---|
| CT Male | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | AECOM (2) AND CT Male (2) on-site, review HASP and SOW, calibrate equipment. GD set up on EH-18, AG drives around gauging wells. |
| 0834 | Take EH-18 sample, Field Blank and Equipment Blank. |
| 0915 | Set up on Catch Basin, finish gauging depth to water with wells inside the airport fence. |
| 0930 | Sample Catch Basin. |
| 0945 | Empty purge water into decon drums. |
| 1015 | AECOM (2) off-site. |
| 1500 | Change Ice, drop cooler off at FedEx. |
| 1530 | Arrive at AECOM Latham office, unload truck. |
| 1600 | AECOM (2) off-site. |
| | |
| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Plan to drop samples off at Wolf Road, Albany FedEx Facility near the office.

**SAMPLING PERFORMED:**

EH-18 050918, CATCH BASIN 050918, FIELD BLANK 050918, EQ-BLANK 050918.

**QUALITY CONTROL ACTIVITIES:**

-Used decon water stored in drums located in staging area.

-Soil from borings stored in drums located in staging area.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 5/9/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

CT Male (2) on-site.

Attempting to lift catch basin grate, to sample catch basin.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 08/06/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 95, sunny | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck. |
| Chris Call | Geophysics | AGS | GPR, gps, truck. |
| | | | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AGS | |
| AECOM | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0800 | AECOM (1) and AGS (1) on-site, review HASP and SOW. |
| 0820 | Review SOW with airport manager team for today and tomorrow. |
| 0845 | Move to EH-B1 for GPR clearance. |
| 0910 | clear EH-B1, 0923 clear EH-E1, 0941 clear EH-SAS, 1001 clear EH-161, 1020 clear EH-162, 1038 clear EH-19A1, 1055 clear EH-19A2. |
| 1115 | East Hampton PD escorts us to impound lot to clear EH-19B1. |
| 1130 | Clear EH-19B1, return to Airport managers' office to collect coolers and review content. |
| 1200 | AGS (1) off-site. |
| 1230 | AECOM (1) off-site, to write report. |
| | |
| | |
| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Logistics of drilling and escorting discussed with airport manager team for the remainder of the week.

**SAMPLING PERFORMED:**

**QUALITY CONTROL ACTIVITIES:**

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

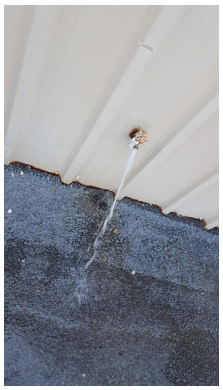
**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 8/6/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

AGS on-site.

Tap from EH-SAS.



| AECOM | East Hampton Airport<br>200 Daniels Hole Rd<br>Wainscott, NY 11975<br>Phone: (518)925-4951<br>Fax: | Daily Report<br>Written By: Alexandra Golden, Geologist<br>DATE: 08/07/2018 |
|---|---|---|

PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: 95, sunny

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, ysi, Ntu, bailer, bottleware, DTW meter. |
| | | | |
| | | | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | |
| | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0650 | AECOM (1) on-site, review HASP and SOW. |
| 0700 | Begin gauging MW's starting with EH-B. |
| 0900 | Airport manager not in to escort to SAS-1; awaiting arrival. |
| 1150 | Sampled hangar SAS-1. |
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**AGREEMENTS MADE/CONVERSATIONS:**

Logistics of drilling and escorting discussed with airport manager team for the remainder of the week.

**SAMPLING PERFORMED:**

SAS-1 080718.

**QUALITY CONTROL ACTIVITIES:**

Gauging previously installed wells coordinated with town gauging.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| MW- ID | DTW | DTB | water in column | Time |
|---|---|---|---|---|
| EH-E | 29.21 | 34.79 | 5.58 | 0718 |
| EH-B | 29.70 | 34.71 | 5.01 | 0726 |
| EH-C | 29.65 | 34.71 | 5.06 | 0734 |
| EH-P3 | 23.12 | 30.27 | 7.15 | 0748 |
| EH-19B | 35.18 | 46.87 | 11.69 | 0800 |
| EH-19A | 35.62 | 42.00 | 6.38 | 0810 |
| EH-18 | 41.52 | 50.89 | 9.37 | 0821 |
| EH-10 | 34.80 | 39.87 | 5.07 | 0829 |
| EH-1 | 31.54 | 39.99 | 8.45 | 0839 |
| EH-16 | 25.42 | 32.99 | 7.57 | 0855 |
| EH-A | 21.00 | 30.11 | 9.11 | 0925 |
| EH-P2 | 36.67 | 50.05 | 13.38 | 0940 |
| EH-P1 | 42.56 | 50.08 | 7.52 | 0952 |

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 08/08/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |
| SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY | | |
| WEATHER: 100, sunny | | |

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, ysi, Ntu, bailer, bottleware, DTW meter. |
| Evan Moraitis | Driller | Cascade | Geoprobe, drilling equipment. |
| Ryan Jackson | Driller | Cascade | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | |
| Cascade | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | AECOM (1) on-site, review HASP and SOW, calibrate equipment, prepare bottleware, coordinate with J Brundige. |
| 0830 | Cascade (2) on-site, review HASP and SOW. |
| 0845 | Move to first drilling location, EH-SAS, inform J Brundige |
| 0905 | Start drilling, set well to 35' at 1015. |
| 1035 | Set up on EH-161, 1051 start drilling, well set to 37' at 1124. |
| 1245 | Start drilling EH-B1, 1325 set well to 37'. |
| 1352 | Move to EH-E1, 1505 well set to 37'. *MS/MSD soil taken. |
| 1530 | AECOM (1) and Cascade (2) off-site, to write report. |
| | |
| | |
| | |

**AGREEMENTS MADE/CONVERSATIONS:**

Logistics of drilling and escorting discussed with airport manager team for the remainder of the week, agreed to meet with the drillers at 0800.

**SAMPLING PERFORMED:**

EH-E1 0-1' 080818, EH-E1 26-27' 080818, EH-SAS 0-1' 080818, EH-SAS 24-25' 080818, EH-161 0-1 080818, EH-161 28-29' 080818, EH-B1 0-1 080818, EH-B1 26-27 080818, Field Blank 080818, Equipment Blank 080818, MS 080818, MSD 080818.

**QUALITY CONTROL ACTIVITIES:**

None.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 8/8/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Cascade on-site drilling EH-161.

Soil from EH-161.

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 08/09/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: 100, sunny

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, ysi, Ntu, bailer, bottleware, DTW meter. |
| Evan Moraitis | Driller | Cascade | Geoprobe, drilling equipment. |
| Ryan Jackson | Driller | Cascade | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | |
| Cascade | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0730 | AECOM (1) on-site, review HASP and SOW, calibrate equipment, prepare bottleware, coordinate with J Brundige. |
| 0745 | Cascade (2) on-site, review HASP and SOW, move to decon area to retrieve equipment. |
| 0800 | Move to first drilling location, EH-162, begin drilling 0825, well set to 35'. |
| 0930 | move to EH-19A2, begin drilling 1000. |
| 1035 | Set up on EH-161, 1051 start drilling, well set to 37' at 1124. |
| 1130 | Set up EH-19A1, lunch break from 1130-1200, start drilling at 1207, well set at 1320. |
| 1330 | EH-PD escorts team to impound lot for EH-19B1, start drilling @1350 *time constraint with EH-PD only 1 soil sample taken, drilled to 45' with 15' screen. |
| 1450 | Move out of impound lot and to decon area, get rid of purge water, soil, and trash. |
| 1530 | Cascade (2) off-site. |
| 1955 | sample EH-161, 202 sample EH-B1. |
| 2030 | AECOM (1) off-site, headed to write report and buy ice for samples. |

**AGREEMENTS MADE/CONVERSATIONS:**

None.

**SAMPLING PERFORMED:**

EH-162 0-1' 080918, EH-162 24-25' 080918, EH-19A2 0-1' 080918, EH-19A2 34-35' 080918, EH-19A1 0-1' 080918, EH-19A1 34-35' 080918, EH-19B1 0-1 080918, EH-161 080918, and EH-B1 080918.

**QUALITY CONTROL ACTIVITIES:**

None.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

Discussed proper clothing and ppe for increased temperatures in the remaining week. Also, discussed tick awareness.

**CORRECTIVE ACTION PERFORMED:**

None.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Photos**<br>Written By: Alexandra Golden, Geologist<br>DATE: 8/9/2018<br>PROJECT MANAGER: John Santacroce<br>PROJECT NO.: 60566160 |

Cascade on-site drilling EH-19A1.

Soil from EH-19A1.

New bailer (on the right) compared to bailers previously used (on the left).

| | | |
|---|---|---|
| AECOM | **East Hampton Airport**<br>**200 Daniels Hole Rd**<br>**Wainscott, NY 11975**<br>**Phone: (518)925-4951**<br>**Fax:** | **Daily Report**<br>Written By: Alexandra Golden, Geologist<br>DATE: 08/10/2018 |

| | | |
|---|---|---|
| PROJECT NAME: **East Hampton Airport** | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce |

SITE LOCATION: 200 Daniels Hole Rd, Wainscott NY

WEATHER: 100, very humid and sunny

| NAME: | TRADE: | COMPANY: | EQUIPMENT: |
|---|---|---|---|
| Alexandra Golden | Geologist | AECOM | Work truck, ysi, Ntu, bailer, bottleware, DTW meter. |
| | | | |
| | | | |
| | | | |

| Contractors: | Site Deliveries: |
|---|---|
| AECOM | |
| | |

**SUMMARY OF WORK PERFORMED:**

| TIME | ACTIVITY: |
|---|---|
| 0637 | AECOM (1) on-site, review HASP and SOW, calibrate equipment, prepare bottleware, coordinate with J Brundige. |
| 0645 | Attempt to retrieve lost bailers out of EH-SAS and EH-E1, attempt unsuccessful. |
| 0745 | Go to EHPD request escort to impound lot. |
| 0800 | Start bailing sample @ 0822. |
| 0900 | Set up on EH-161, 1051 start drilling, well set to 37' at 1124. |
| 1130 | Set up EH-19A1, lunch break from 1130-1200, start drilling at 1207, well set at 1320. |
| 1205 | EH-PD escorts team to impound lot for EH-19B1, start drilling @1350 *time constraint with EH-PD only 1 soil sample taken, drilled to 45' with 15' screen. |
| 1400 | Move out of impound lot and to decon area, get rid of dirty water, soil, and trash. |
| 1600 | Cannot get bailer out of EH-E1, retrieve water and sample with additional bailer above. |
| 1700 | AECOM (1) offsite. |
| 2230 | Arrive at Latham Office, unload truck and equipment. |

**AGREEMENTS MADE/CONVERSATIONS:**

None.

**SAMPLING PERFORMED:**

EH-19B1 0-1' 081018, EH-19A2 081018, EH-19A2 0-1' 080918, EH-19A2 34-35' 080918, EH-19A1 0-1' 080918, EH-19A1 34-35' 080918, EH-19B1 0-1 080918, EH-161 080918, and EH-B1 080918.

**QUALITY CONTROL ACTIVITIES:**

None.

**REQUEST FOR INFORMATION:**

None.

**TRANSMITTALS/SUBMITTALS:**

None.

**AIR MONITORING COMMENTS:**

None.

**SAFETY OBSERVATIONS/COMMENTS:**

None.

**CORRECTIVE ACTION PERFORMED:**

Lessons learned about bailer procedures.

**Oversight By (signature):**

Name :_____Alexandra Golden_____

# APPENDIX C

## Soil Boring Logs

| | | |
|---|---|---|
| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-B<br>START DATE: 04/30/18 END DATE: 04/30/18 |

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce
SITE LOCATION: Wainscott, NY | BORING LOCATION: | 
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 35'
TOTAL DEPTH REACHED: 35 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Cloudy, 50° F
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |

| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | 30.0 | 0.0 | None | X | None | 0-0.3' : Topsoil; *EH-B 043018 0-1' soil sample collected from 0-1 fbg<br>.3-2.5' : Dry, Orange-brown, coarse grained sand and poorly sorted medium gravel | GM | |
| 5.0 | | 44.0 | 0.0 | None | X | None | 5-7.5' : SAA<br>7.5-8.8' : some gravel; moist, light brown, fine sand | GM | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-15' : saturated, light brown, fine sand | GM | |
| 15.0 | | 60.0 | 0.0 | None | X | None | 15-20' : moist, light brown, fine sand<br>*EH-B 043018 19-20' soil sample collected from 19-20 fbg | GM | |
| 20.0 | | 60.0 | 0.0 | None | X | None | SAA | GM | |
| 25.0 | | 42.0 | 0.0 | None | X | None | 25-27.9' : SAA *EH-B 043018 26-27' soil sample collected from 26-27 fbg<br>27.9-28.5' : wet, tan, coarse sand; some gravel and cobbles | GM | Saturated |
| 30.0 | | 32.0 | 0.0 | None | X | None | 30.0-30.8: medium sand<br>30.8-31.8': saturated, tan, coarse sand & fine gravel<br>31.8-32.7': medium sand | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total of 35 fbg including 10' of screen | | |
| 40.0 | | | | | | | | | |
| 45.0 | | | | | | | | | |
| 50.0 | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-E
START DATE: 04/30/18 END DATE: 04/30/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 35 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 35'
WEATHER CONDITIONS: Cloudy, 50° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | | RIG TYPE: |
| | | | | | | | TYPE | | | | | | | |
| | | | | | | | ID/OD | | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY (") | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | | WATER LEVEL ---------- REMARKS |
| 0.0 | | 37.0 | 0.0 | None | X | None | 0-.5' : topsoil; *EH-E 043018 0-1' collected from 0-1 fbg<br>.5-2' : dry, brownish yellow, fine to medium grained sand, coarse gravel poorly sorted throughout<br>2-3.1' : SAA | | | | | SM | | |
| 5.0 | | 44.0 | 0.0 | None | X | None | 5-6 ' : SAA, medium tan<br>6-6.3 ' : SAA, cobble sized grains<br>6.3-7.3' : fine tan sand with small cobble at 7.3'<br>7.3-8.8' : fine sand | | | | | SM | | |
| 10.0 | | 43.0 | 0.0 | None | X | None | 10-11.7' : moist, tan medium sand<br>11.7-13.7' : light tan fine sand | | | | | SM | | |
| 15.0 | | 42.0 | 0.0 | None | X | None | 15-15.5' : moist, light brown fine sand with some silt<br>15.5-17.5' : medium sand with coarse gravel<br>17.5-18.6' : light brown fine-medium sand with coarse gravel | | | | | SM<br>SP | | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-21.5' : moist, light brown, medium-fine sand with some silt<br>21.5-25' : light brown, medium-fine sand, some coarse gravel<br>*EH-E 043018 23-24' collected from 23-24 fbg | | | | | SP | | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-26.5' : medium grain sand with some silt<br>26.5-27' : light brown medium sand<br>27-27.25' : orange brown medium sand<br>27.25-30' : light brown, medium- fine sand | | | | | SP | | Saturated @ 29' |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-30.5' : light brown, coarse - medium sand, some silt and fine sand<br>30.5-33.0' : light brown coarse-medium sand<br>33.0-34.1' : tan fine sand<br>34.1-35.0': light brown medium-coarse sand | | | | | SP | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total of 35 fbg including 10' of screen | | | | | | | |
| 40.0 | | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-16
START DATE: 04/30/18 END DATE: 04/30/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER:
SITE LOCATION: Wainscott, NY
BORING LOCATION:
John Santacroce
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 33'
TOTAL DEPTH REACHED: 33 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Cloudy, 50° F
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 21.0 | 0.0 | None | X | None | 0-0.5': topsoil *EH-16 043018 0-1' soil sample collected from 0-1 fbg<br>0.5-1.75' : brown-light orange, medium sand, some coarse gravel;<br>small cobble at 1.2' | | | | | SW | Dry |
| 5.0 | | 50.0 | 0.0 | None | X | None | 5.0-6.0' : dry, light brown, medium sand with coarse gravel<br>6.0-6.5': small cobble<br>6.5-10.0' : light brown, medium sand with coarse gravel | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-11.8' : dry, light brown medium sand with some silt and coarse gravel<br>11.8-13.3' : light brown medium fine sand<br>13.3-15.0': tan medium sand, some coarse gravel | | | | | SW | Moist @ 13.5' |
| 15.0 | | 60.0 | 0.0 | None | X | None | 15-16.75' : wet-moist, brown, medium sand with some silt<br>16.75-20' : light brown, medium-fine silty sand with coarse gravel<br>small cobble @ 16.7-17' | | | | | SW | |
| 20.0 | | 52.0 | 0.0 | None | X | None | 20-22' : wet-moist, brown medium-fine sand w/ coarse gravel<br>22-25' : light brown medium sand with coarse gravel and some cobble<br>*EH-16 043018 23-24' soil sample collected from 23-24 fbg | | | | | SW | Saturated @ 22' |
| 25.0 | | 40.0 | 0.0 | None | X | None | 25-26.5' : brown fine sand some coarse gravel<br>26.5-28.3' : light brown medium sand with coarse gravel | | | | | SW | Saturated |
| 30.0 | | | | | | | 30-33' done blind<br>1" PVC Monitoring Well set to a total depth of 33 fbg including 10' of screen | | | | | | |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-C
START DATE: 05/01/18 END DATE: 05/01/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER: John Santacroce
SITE LOCATION: Wainscott, NY
BORING LOCATION:
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 35'
TOTAL DEPTH REACHED: 35 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Sunny, 65° F
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | | RIG TYPE: |
| | | | | | | | TYPE | | | | | | | |
| | | | | | | | ID/OD | | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | | WATER LEVEL ---------- REMARKS |
| 0.0 | | 37.0 | 0.0 | Mint Scent | X | None | 0-0.5' : topsoil, dry and dark brown<br>*EH-C 050118 0-1' soil sample collected from 0-1 fbg<br>0.5-2.3' : moist, brown yellow, fine sand w/ some gravel<br>2.3-3.1' : gray, silty clay | | | | | SC | | |
| 5.0 | | 38.0 | 0.0 | Mint Scent | X | None | 5-6.3' : gray, silty clay, some coarse sand, fine gravel sub angular<br>6.3-8.15' : brownish yellow, medium sand, coarse gravel<br>subangular/subrounded | | | | | SC<br>SP | | |
| 10.0 | | 52.0 | 0.0 | None | X | None | 10-14.33' : moist, brown, medium-fine sand, poorly sorted fine-coarse gravel, subrounded | | | | | SP | | |
| 15.0 | | 46.0 | 0.0 | None | X | None | 15-16.3' : moist, dark brown to greenish gray, fine to medium sand with silty clay. Mix of small subrounded grains of gravel<br>16.3-18.8": Brown-light brown moist sand medium subrounded coarse gravel | | | | | SP | | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-22': moist, dark brown, fine sand, some mix of silty clay, coarse grains of gravel to small cobbles, subangular--> subrounded and poorly sorted<br>22-25' : moist, brown medium sand, poorly sorted small cobbles and coarse gravel subrounded | | | | | SP | | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-27.4' : wet, dark brown, fine sand with silty clay mix, medium to small cobbles<br>27.4-30' : wet, brown-light brown, medium sand poorly sorted small cobbles and coarse gravel grains<br>*EH-C 050118 29-30' soil sample collected from 29-30 fbg | | | | | SP | | Saturated @ 29' |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-32': dark brown fine sand<br>32-35' : brown medium sand, with poorly sorted coarse cobbles, subrounded | | | | | SP | | Saturated |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 35 fbg including 10' of screen | | | | | | | |
| 40.0 | | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-P3
START DATE: 05/01/18 END DATE: 05/01/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 30 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 30'
WEATHER CONDITIONS: Sunny, 65° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | | RIG TYPE: |
| | | | | | | | TYPE | | | | | | | |
| | | | | | | | ID/OD | | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | | WATER LEVEL ---------- REMARKS |
| 0.0 | | X | X | X | X | X | Drilled 0-20 fbg blind | | | | | X | | X |
| 20.0 | | 43.0 | 0.0 | None | X | None | 20-20.85' : wet, light brown sand, poorly sorted medium subangular gravel<br>20.85-23.5' : light brown medium sand, less gravel | | | | | SP | | Saturated @ 21.7' |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-27.5' : dark brown fine-medium sand with seams of olive gray, sand and silty clay<br>27.5-30' : medium brown sand with fine to coarse gravel, subangular to subrounded | | | | | SC<br>SP | | Saturated |
| 30.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 30 fbg including 10' of screen | | | | | | | |
| 35.0 | | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | | |
| 65.0 | | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-1
START DATE: 05/01/18 END DATE: 05/01/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER:
SITE LOCATION: Wainscott, NY
BORING LOCATION:
John Santacroce
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 43'
TOTAL DEPTH REACHED: 43 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Sunny, 65° F
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 38.0 | 0.0 | None | X | None | 0-0.5' : topsoil *EH-1 050118 0-1' soil sample collected from 0-1 fbg<br>0.5-3.2' : dry/moist, brownish yellow, fine sand, poorly sorted medium coarse gravel with small cobbles, subangular to subrounded | | | | | SP | |
| 5.0 | | 50.0 | 0.0 | None | X | None | 5-5.8': moist, brown, fine sand<br>5.8-9.2' : moist, light brown fine sand little to no gravel | | | | | SW | |
| 10.0 | | 49.0 | 0.0 | None | X | None | 10-10.75' : moist, dark brown, fine sand and silty clay mix<br>10.75-14.1' : moist, light brown with bands of orange brown fine sand, small coarse subrounded gravel pieces | | | | | SW | |
| 15.0 | | 18.0 | 0.0 | None | X | None | 15-15.25' : moist-dry, light brown, fine sand, coarse gravel<br>15.25-16.5' : dark brown-brownish yellow fine sand, some coarse gravel | | | | | SW | |
| 20.0 | | 45.0 | 0.0 | None | X | None | 20-21' : moist, dark brown, fine to medium sand and poorly sorted coarse gravel<br>21-24.75' : moist, light brown, medium sand, some poorly sorted coarse gravel | | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-27' : moist, dark brown fine sand, some poorly sorted fine gravel<br>27-30' : moist, light brown, fine sand, some fine to coarse sand and small cobbles | | | | | SW | |
| 30.0 | | 48.0 | 0.0 | None | X | None | 30-32.75' : moist, dark brown fine sand, some gravel, subrounded<br>32-34' : Saturated brownish yellow medium sand and fine-coarse gravel<br>*EH-1 050118 32-33' soil sample collected from 32-33 fbg | | | | | SW | Saturated |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 43 fbg including 10' of screen | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-10
START DATE: 05/01/18 END DATE: 05/01/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 44 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 44'
WEATHER CONDITIONS: Sunny, high 60s
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | | RIG TYPE: |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | TYPE | | | | | | | |
| | | | | | | | ID/OD | | | | | | | |
| | | | | | | | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | | WATER LEVEL ---------- REMARKS |
| 0.0 | | 38.0 | 0.0 | None | X | None | 0-.5' : topsoil, dry *EH-10 050118 0-1' soil sample collected from 0-1 fbg<br>.5-3.15' : dry/moist yellow brown fine sand, some coarse gravel and small cobbles | | | | | SW | | |
| 5.0 | | 40.0 | 0.0 | None | X | None | 5-5.9' : SAA;<br>5.9-7.5' : dark brown medium sand<br>7.5-8.35' : moist, light brown fine to medium sand, quartz pieces intermixed, subangular to angular | | | | | SW | | |
| 10.0 | | 44.0 | 0.0 | None | X | None | 10-12' : silty clay with trace light brown medium and coarse gravel<br>12-13.4' : moist, light brown, fine sand | | | | | SW<br>GC | | |
| 15.0 | | 55.0 | 0.0 | None | X | None | 15-16.5' : moist, dark brown, sand and silty clay<br>16.5-19.5' : moist, light brown, sand poorly sorted quartz | | | | | GC<br>SW | | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-20.75' : moist, light brown, fine to medium sand<br>20.75- 21.5' : moist, dark brown fine sand<br>21.5-25' : moist, light brown medium sand<br>few medium to large quartz grains throughout | | | | | SW | | |
| 25.0 | | 53.0 | 0.0 | None | X | None | 25-26.1' : moist, dark brown, fine-coarse sand mix with silt<br>26.1-29.4' : moist, light brown, medium sand, some gravel | | | | | SW | | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-32.5' : wet, brown, fine sand<br>32.5-34' : wet, light brown medium sand with gravel<br>34-35' : saturated medium sand<br>*EH-10 050118 33-34' soil sample collected from 33-34 fbg | | | | | SW | | Saturated |
| 35.0 | | | | | | | | | | | | | | |
| 40.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 44 fbg including 10' of screen | | | | | | | |
| 45.0 | | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | | |

| | | |
|---|---|---|
| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-A3<br>START DATE: 05/02/18 END DATE: 05/02/18 |

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 25'
TOTAL DEPTH REACHED: 25 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Sunny, 70° F
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 30.0 | 0.0 | None | X | None | 0-0.25': topsoil *EH-A3 050218 0-1' soil sample collected from 0-1 fbg<br>0.25-2.5': moist, brown medium sand, some cobbles<br>poorly sorted and subrounded | | | | | SW | |
| 5.0 | | 46.0 | 0.0 | None | X | None | 5-6.7' : moist, brown, fine sand<br>6.7-8.75' : wet, light brown, medium sand and gravel | | | | | SW | |
| 10.0 | | 55.0 | 0.0 | None | X | None | 10-11' : moist, brown, fine sand<br>11-14.75' : moist, light brown, medium sand and gravel | | | | | SW | |
| 15.0 | | 55.0 | 0.0 | None | X | None | 15-16.8' : moist, brown with gray stripes, fine sand<br>16.8- 19.6' : moist, light brown, fine to medium grain sand<br>last 4" wet | | | | | SW | |
| 20.0 | | 55.0 | 0.0 | None | X | None | 20-21.7' : wet, dark brown, fine silty sand<br>21.7-24.6' : saturated, light brown medium sand<br>*EH-A3 050218 22-23' soil sample collected from 22-23 fbg | | | | | SW | Saturated |
| 25.0 | | | | | | | No monitoring well set | | | | | | |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-A<br>START DATE: 05/02/18 END DATE: 05/02/18 |
|---|---|---|

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 33'
TOTAL DEPTH REACHED: 33 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Sunny, 60° F
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 33.0 | 0.0 | None | X | None | 0-0.5' : topsoil *EH-A 050218 0-1' soil sample collected from 0-1 fbg<br>0.5-2.1': moist, orange brown, fine sand, fine gravel, subrounded<br>2.1-4.5' : moist, light brown, medium grain sand fine gravel subrounded poorly sorted | | | | | SW | |
| 5.0 | | 55.0 | 0.0 | None | X | None | 5-5.8' : moist, yellow brown, medium sand<br>5.8-9.75' : moist, light brown, medium sand, poorly sorted gravel in varying sizes | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-11.8' : moist, dark brown and gray, medium sand and silt, some fine-coarse gravel<br>11.8-15' : moist, light brown, medium grain sand with small coarse gravel | | | | | SW | |
| 15.0 | | 53.0 | 0.0 | None | X | None | 15-17.0' : moist to wet, dark brown, fine-medium sand and silt<br>17.0-17.7' : wet, light brown medium sand<br>17.7-19.5 ': moist, light brown medium sand, some coarse gravel and cobbles | | | | | SW | |
| 20.0 | | 47.0 | 0.0 | None | X | None | 20-21.3' : moist to wet, dark brown, fine silty sand<br>21.3-21.8' : wet, light brown medium sand<br>21.8-23.8' : saturated light brown medium sand<br>*EH-A 050218 22-23' soil sample collected from 22-23 fbg | | | | | SW | Saturated |
| 25.0 | | | | | | | | | | | | | |
| 30.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 33 fbg including 10' of screen | | | | | | |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-A1
START DATE: 05/02/18 END DATE: 05/02/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER:
SITE LOCATION: Wainscott, NY
BORING LOCATION:
John Santacroce
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 25'
TOTAL DEPTH REACHED: 25 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Sunny, high 60s
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 43.0 | 0.0 | None | X | None | 0-0.3' : topsoil *EH-A1 050218 0-1' soil sample collected from 0-1 fbg<br>0.5-2.3' : dry, dark brown, fine sand<br>2.3-3.5': moist, dark brown, medium sand, with poorly sorted gravel and cobbles | | | | | SW | |
| 5.0 | | 55.0 | 0.0 | None | X | None | 5-2.4' : moist, brown , fine sand<br>2.4-9.6' : moist, brown medium sand, with poorly sorted gravel and cobbles | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-11.7' : moist, brown, fine grain sand<br>11.7-15' : moist, brown medium sand, with poorly sorted gravel and cobbles | | | | | SW | |
| 15.0 | | 54.0 | 0.0 | None | X | None | 15-16' : moist, light brown, fine to medium grain sand<br>16-17.7' : moist, brown very fine grain sand<br>17.7-19.5' : moist, light brown, medium sand and poorly sorted gravel | | | | | SW | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-22.5' : wet, brown, fine grained sand<br>22.5-25' : wet, light brown sand<br>24-25': saturated<br>*EH-A1 050218 23-24' soil sample collected from 23-24 fbg | | | | | SW | Saturated |
| 25.0 | | | | | | | No monitoring well set | | | | | | |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-A2
START DATE: 05/02/18 END DATE: 05/02/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER:
SITE LOCATION: Wainscott, NY
BORING LOCATION:
John Santacroce
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 25'
TOTAL DEPTH REACHED: 25 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Sunny, 70s
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 45.0 | 0.0 | None | X | None | 0-0.25':topsoil *EH-A2 050218 0-1' soil sample collected from 0-1 fbg<br>0.25-1.2' : dry, dark brown fine grain sand<br>1.2- 3.75' : moist, orange brown, medium grain sand | | | | | SW | |
| 5.0 | | 60.0 | 0.0 | None | X | None | 5-5.8' : moist, brown and gray seams, silty fine sand<br>5.8-8.3' : moist, light brown, fine sand<br>8.3-10' : moist, light brown, medium sand | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-11.6' : moist, brown fine sand<br>11.6-15' : wet/moist, light brown medium sand<br>with poorly sorted medium - coarse gravel, subrounded | | | | | SW | |
| 15.0 | | 60.0 | 0.0 | None | X | None | 15-16' : moist, brown fine sand with dark gray silty sand mix<br>16-17' : moist, brown, fine grain sand<br>17-20' : wet/moist, light brown medium to fine grain sand | | | | | SW | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-22.5' : moist, brown with dark silty sand and fine sand mix<br>22.5-25' : saturated, light brown medium sand<br>*EH-A2 050218 23-24' soil sample collected from 23-24 fbg | | | | | SW | Saturated |
| 25.0 | | | | | | | No monitoring well set | | | | | | |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-P2
START DATE: 05/02/18 END DATE: 05/02/18

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER:
SITE LOCATION: Wainscott, NY
BORING LOCATION:
John Santacroce
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 50'
TOTAL DEPTH REACHED: 50 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Sunny, 70s
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | X | X | X | X | X | first 15 feet drilled blind | | | | | X | X |
| 15.0 | | 45.0 | 0.0 | None | X | None | 15-18.75' : moist, light brown, fine to medium sand<br>intermixed subrounded small cobbles and coarse gravel, poorly sorted throughout | | | | | SW | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-20.7' : moist, brown/orange brown and gray silty sand and sand mix<br>20.7-25' : moist, light brown, fine sand and gravel | | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-26.3' : moist, dark brown, silty sand, very compact, coarse gravel<br>26.3-26.7' : moist, yellow brown, fine sand<br>26.7-30' : moist, light brown, fine to medium sand and gravel | | | | | SW | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-31.6' : moist, brown, fine silty sand<br>31.6-31.9' : moist, yellow brown fine sand<br>31.9-32.8' : moist, light brown medium sand<br>32.8-35' : moist brown fine sand | | | | | SW | |
| 35.0 | | 37.0 | 0.0 | None | X | None | 35-35.5' : SAA<br>35.5-36' : moist light brown medium sand<br>36-37.5' : wet brown fine sand<br>37.5-38.10' : saturated light brown medium sand | | | | | SW | Saturated |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 50 fbg including 10' of screen | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-18
START DATE: 05/03/18 END DATE: 05/03/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 51 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 51'
WEATHER CONDITIONS: Sunny, 80° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 44.0 | 0.0 | None | X | None | 0-0.3' : topsoil *EH-18 050318 0-1' soil sample collected from 0-1 fbg<br>0.3-3.7' : dry, orange brown, fine grain sand, compact, with coarse gravel, subangular to subrounded, intermixed throughout | | | | | SW | |
| 5.0 | | 55.0 | 0.0 | None | X | None | 5-5.8' : brown, dry, fine grain sand<br>5.8-6.75' : dry, orange brown, fine grain sand<br>6.75-965' : dry, light brown, fine to medium grain sand mix<br>gravel: SAA | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-10.75' : moist, light brown, medium sand<br>10.75-11.75' : moist, orange with brown stripes, medium to fine grain sand<br>11.75-15' : moist, light brown with orange stripes, medium sand<br>gravel: SAA | | | | | SW | |
| 15.0 | | 60.0 | 0.0 | None | X | None | 15-15.7' : moist, dark brown, fine sand<br>15.7-16.1' : moist, light brown, medium to fine sand<br>16.1-17.5' : moist, orange brown, fine sand<br>17.5-20' : moist, light brown with orange stripes medium sand | | | | | SW | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-22.7' : moist/dry, dark brown with orange, medium to fine sand<br>22.7-25' : moist, light brown medium sand<br>gravel: SAA | | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-26' : moist, dark brown with gray, silty fine sand<br>26-27.9' : moist, orange brown fine sand<br>27.9-28.8' : moist, light brown, fine sand<br>28.8-30' : moist, light brown, medium sand | | | | | SW | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-32' : moist, dark brown, medium sand, some silty fine sand<br>32-32.5' : moist, light brown fine sand<br>32.5-35' : moist, light brown, medium sand with small cobbles | | | | | SW | |
| 35.0 | | 60.0 | 0.0 | None | X | None | 35-36.2' : dark brown, fine silty and medium sand mix compact<br>36.2-36.9' : moist, fine, brown orange sand<br>36.9-40' : moist, light brown, medium sand small subrounded gravel<br>poorly sorted | | | | | SW | |
| 40.0 | | 60.0 | 0.0 | None | X | None | 40-42.1' ": wet, dark brown with orange medium sand<br>42.1-45' : saturated medium light brown, sand small subrounded gravel throughout, quartz cobbles at 42'<br>*EH-18 050318 41-42' soil sample collected from 41-42 fbg | | | | | SW | Saturated |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 51 fbg including 10' of screen | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-19A

START DATE: 05/04/2018 END DATE: 05/04/2018

PROJECT NAME: East Hampton Airport
PROJECT NO.: 60566160
PROJECT MANAGER: John Santacroce
SITE LOCATION: Wainscott, NY
BORING LOCATION:
DRILLING CO.: Cascade
DRILLER: Evan Moraitis
DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER:
DEPTH TO BEDROCK:
TOTAL DEPTH DRILLED: 42'
TOTAL DEPTH REACHED: 42 fbg
INSPECTOR: A. Golden
WEATHER CONDITIONS: Cloudy, 55° F
LATITUDE:
LONGITUDE:
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| | | | | | | | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 42.0 | 0.0 | None | X | None | 0-0.75':topsoil *EH-19A 050418 0-1' soil sample collected from 0-1 fbg<br>0.75-2.9' : moist, yellow-brown, fine grain sand<br>2.9-3.5' : moist, light brown, fine to medium sand, some coarse gravel<br>gravel poorly sorted, subangular-subrounded | | | | | SW | |
| 5.0 | | 60.0 | 0.0 | None | X | None | 5-6' : moist, brown, medium-fine grain sand<br>6-6.2' : moist, very dark brown, medium-fine grain sand<br>6.2-10' : moist, light orange brown, medium soil<br>gravel: SAA; | | | | | SW | |
| 10.0 | | 60.0 | 0.0 | None | X | None | 10-11.4' : moist, orange brown, with gray stripes intermixed, fine silty sand<br>11.4-11.6': very dark brown, sand, with red coarse gravel grains<br>11.6-15' : moist, light brown and orange, fine sand<br>gravel: SAA; | | | | | SW | |
| 15.0 | | 60.0 | 0.0 | None | X | None | 15-16.6' : moist, light brown with stripes of dark gray, fine silty sand<br>16.6-17' : moist, orange brown, fine sand<br>17-18.5' : moist, light brown fine sand<br>18.5-20' : moist, light brown, medium grain sand; gravel: SAA | | | | | SW | |
| 20.0 | | 60.0 | 0.0 | None | X | None | 20-21.7' : moist, light brown, fine grain sand<br>21.7-25' : wet, light brown, medium grain sand<br>some quartz cobbles at 24' | | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-26.7' : moist, brown, fine grain sand<br>26.7-26.8' : moist, light brown, fine grain sand<br>26.8-30' : wet, light brown, medium grain sand<br>coarse gravel cluster 27.7-28.0' | | | | | SW | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-32.1' : wet, brown, medium grain sand,<br>32.1-32.5' : wet, medium grain, orange brown sand<br>32.5-35' : saturated, coarse, medium grained sand<br>*EH-19A 050418 31-32' soil sample collected from 31-32 fbg | | | | | SW | Saturated |
| 35.0 | | | | | | | | | | | | | |
| 40.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 42 fbg including 10' of screen | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-19B<br>START DATE: 05/03/18 END DATE: 05/03/18 |
|---|---|---|

| | | |
|---|---|---|
| PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER: |
| SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce |
| DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe |
| BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 47' |
| TOTAL DEPTH REACHED: 47 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Sunny, 70° F |
| LATITUDE: | LONGITUDE: | ELEVATION AND DATUM: |

| FIELD SAMPLE INFORMATION | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | |
| | | | | | | | FALL | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | |
| | | | | | | | ID/OD | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 26.0 | 0.0 | None | X | None | 0-0.5' : topsoil<br>0.5-1.8' : moist, orange brown, very fine sandy clay<br>1.8-2.2' : brown, medium grain sand<br>*EH-19B 050318 0-1' soil sample collected from 0-1 fbg | | | | SW | |
| 5.0 | | 50.0 | 0.0 | None | X | None | 5-5.3' : moist, brown, medium sand<br>5.3-5.7' : moist, dark brown very fine clay/sand<br>5.7-9.2' : moist, light orange/brown, medium sand<br>some gravel and cobbles throughout, poorly sorted | | | | SW | |
| 10.0 | | 38.0 | 0.0 | None | X | None | 10-11.4' : moist, orange brown-dark gray, fine sand<br>11.4-13.2' : moist, light brown fine to medium grain sand;<br>gravel: SAA | | | | SW | |
| 15.0 | | 55.0 | 0.0 | None | X | None | 15-16.5' : moist, orange brown mix with dark gray, fine grain silty sand<br>16.5-19.6' : moist, light brown medium grain sand<br>coarse gravel --> large quartz cobbles subrounded poorly sorted | | | | SW | |
| 20.0 | | 35.0 | 0.0 | None | X | None | 20-21.5' : moist, light gray-brown and orange, fine silty sand<br>21.5-22.9' : moist, light brown, medium grain sand<br>gravel: SAA | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-25.8' : moist, brown with gray, silty sand mix<br>25.8-30' : moist, light brown, fine to medium grain sand<br>gravel: SAA | | | | SW | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-31.2' : moist, brown with gray, fine silty sand<br>31.2-31.5' : moist, brown, fine sand<br>31.5-32.5' : wet, light brown, medium grain sand<br>32.5-35' : wet, brown, medium sand; gravel: SAA | | | | SW | |
| 35.0 | | 50.0 | 0.0 | None | X | None | 35-36.5' : moist/wet, dark brown, fine silty sand<br>36.5-39.2' : saturated, brown, medium sand<br>gravel: SAA<br>*EH-19B 050318 36-37' soil sample collected from 36-37 fbg | | | | SW | Saturated |
| 40.0 | | | | | | | | | | | | |
| 45.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 47 fbg including 10' of screen | | | | | |
| 50.0 | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-P1
START DATE: 05/03/18 END DATE: 05/03/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 50 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 50'
WEATHER CONDITIONS: Sunny, 70° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | X | X | X | X | X | Drill 0-20 fbg blind | | | | | X | X |
| 20.0 | | 52.0 | 0.0 | None | X | None | 20-24.3' : moist/dry, light brown, medium sand, some subrounded poorly sorted small gravel | | | | | SW | |
| 25.0 | | 60.0 | 0.0 | None | X | None | 25-27.7' : dry, orange brown, fine sand<br>27.5-30' : dry, light brown fine to medium grain sand<br>gravel: SAA | | | | | SW | |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-31.5' : dry, brown, fine-medium grain sand;<br>30.9-35' : dry, light brown, fine grain sand<br>coarse gravel --> quartz cobbles subrounded poorly sorted | | | | | SW | |
| 35.0 | | 60.0 | 0.0 | None | X | None | 35-36.1' : wet, dark brown with dark gray, fine silty sand<br>36.1-38.2' : moist, light brown, fine grain sand<br>38.2-40' : dry, light brown, medium grain sand<br>gravel: SAA | | | | | SW | |
| 40.0 | | 60.0 | 0.0 | None | X | None | 40-42.2' : moist dark brown, medium grain sand saturated at 42'<br>42.2-45' : saturated, medium brown, fine to medium grain sand<br>gravel: SAA | | | | | SW | Saturated |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | 1" PVC Monitoring Well set at a total depth of 50 fbg including 10' of screen | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |
| 65.0 | | | | | | | | | | | | | |

| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-162<br>START DATE: 08/09/2018 END DATE: 08/09/2018 |
|---|---|---|

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER: John Santacroce
SITE LOCATION: Wainscott, NY | BORING LOCATION: | 
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 35'
TOTAL DEPTH REACHED: 35 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: 95° F, muggy
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>REMARKS |
| 0.0 | | 26.0 | 0.0 | None | X | None | 0-0.5' : topsoil; 0.5-2.2' : moist, orange-brown, medium grain sand, dry, large --> small gravel/cobbles, subrounded poorly sorted throughout<br>*EH-162 0-1' 080918 soil sample collected from 0-1 fbg | | | | | SP | dry |
| 5.0 | | X | X | X | X | X | drilled 5-20 fbg blind | | | | | X | X |
| 20.0 | | 55.0 | 0.0 | None | X | None | 20-21.75': dry, dark brown, medium fine sand<br>21.75-23.1' : dry, brown, medium sand<br>23.1-24.6': light brown medium moist sand<br>gravel: SAA | | | | | SP | |
| 25.0 | | 20.0 | 0.0 | None | X | None | 25-26.7' : saturated brown, coarse sand<br>gravel: SAA<br><br>*EH-162 24-25' 080918 soil sample collected from 24-25 fbg | | | | | SP | Saturated |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 35 fbg including 10' of screen | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |

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|---|---|---|
| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-B1<br>START DATE: 08/08/18 END DATE: 08/08/18 |

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 37'
TOTAL DEPTH REACHED: 37 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Sunny, 100° F
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 48.0 | 0.0 | None | X | None | 0-0.5' : Topsoil<br>0.5-4' : dry, red brown, medium fine sand, some quartz<br>poorly sorted gravel --> cobble intermixed<br>*EH-B1 0-1' 080818 soil sample collected from 0-1 fbg | | | | | SP | |
| 5.0 | | X | X | X | X | X | drilled blind from 5-20 fbg | | | | | X | X |
| 20.0 | | 51.0 | 0.0 | None | X | None | 20-21.2' : dark brown, moist, medium grain sand<br>21.2-24.75' : moist, light brown, medium sand; last 2" very coarse/moist gravel<br>gravel:SAA | | | | | SP | |
| 25.0 | | 48.0 | 0.0 | None | X | None | 25-25.5' : moist, dark brown silty sand<br>25.5-29' : moist, light brown, medium grain sand<br>gravel: SAA Last 2.5': Saturated<br>*EH-B1 26-27' 080818 soil sample collected from 26-27 fbg | | | | | SP | Saturated |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 37 fbg including 10' of screen | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |

| | | |
|---|---|---|
| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-SAS<br>START DATE: 08/08/18 END DATE: 08/08/18 |

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 35'
TOTAL DEPTH REACHED: 35 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: Sunny, 100° F
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 45.0 | 0.0 | None | X | None | 0-0.5' : topsoil<br>0.5-3.75' : dry, light orange brown, medium sand, some coarse gravel and cobbles poorly sorted throughout<br>*EH-SAS 0-1' 080818 soil sample collected from 0-1 fbg | | | | | SP | |
| 5.0 | | 60.0 | 0.0 | None | X | None | 5-10' : light brown, medium grain sand<br>gravel: SAA | | | | | SP | |
| 10.0 | | 33.0 | 0.0 | None | X | None | 10-11' : moist, dark brown, medium grained sand<br>11-2.75' : dry, light brown, medium fine sand<br>gravel: SAA | | | | | SP | |
| 15.0 | | 40.0 | 0.0 | None | X | None | 15-16.7' : moist, dark brown, medium fine sand<br>16.7-18.3' : moist, light brown, coarse sand<br>gravel: SAA | | | | | SP | |
| 20.0 | | 36.0 | 0.0 | None | X | None | 20-21.25' : moist, dark brown, medium fine sand<br>21.25-23' : moist, light brown, medium coarse sand<br>gravel: SAA<br>*EH-SAS 24-25' 080818 soil sample collected from 24-25 fbg | | | | | SP | Saturated |
| 25.0 | | 35.0 | 0.0 | None | X | None | 25-27.9' : moist to saturated, dark brown, medium grained sand<br>gravel: SAA | | | | | SP | |
| 30.0 | | | | | | | | | | | | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 35 fbg including 10' of screen | | | | | | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-E1
START DATE: 08/08/18 END DATE: 08/08/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 37 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 37'
WEATHER CONDITIONS: Sunny, 100° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | | RIG TYPE: |
| | | | | | | | TYPE | | | | | | | |
| | | | | | | | ID/OD | | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | | WATER LEVEL ---------- REMARKS |
| 0.0 | | 25.0 | 0.0 | None | X | None | 0-0.5' : topsoil<br>0.5-2.1' : dry, brown with light orange, medium grain sand, coarse gravel poorly sorted subrounded throughout<br>*EH-E1 0-1' 080818 soil sample collected from 0-1 fbg | | | | | SP | | |
| 5.0 | | X | X | X | X | X | 5-20': drilled blind | | | | | X | | X |
| 20.0 | | 41.0 | 0.0 | None | X | None | 20-21.7' : Dry, brown, medium fine grained sand<br>21.7-23.4' : moist, light brown, medium sand<br>gravel: SAA | | | | | SP | | |
| 25.0 | | 40.0 | 0.0 | None | X | None | 25-26.5' : wet-moist, dark brown, medium-fine sand<br>26.5-28.3' : saturated, light brown, medium coarse sand; saturated at 27.5'<br>gravel: SAA<br>*EH-E1 26-27' 080818 soil sample collected from 26-27 fbg | | | | | SP | | Saturated |
| 30.0 | | | | | | | | | | | | | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 37 fbg including 10' of screen | | | | | | | |
| 40.0 | | | | | | | | | | | | | | |
| 45.0 | | | | | | | | | | | | | | |
| 50.0 | | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-161
START DATE: 08/08/18 END DATE: 08/08/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 37 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 37'
WEATHER CONDITIONS: Sunny, 100° F
ELEVATION AND DATUM:

FIELD SAMPLE INFORMATION

| | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|
| WEIGHT(S) | | | | | | |
| FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| TYPE | | | | | | |
| ID/OD | | | | | | |

| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | LITHOLOGY/ SOIL TYPE | WATER LEVEL / REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | | 45.0 | 0.0 | None | X | None | 0-0.5' : topsoil, dry and dark brown<br>0.5-3.75' : dry, brown, fine grained sand; some quartz cobbles<br>*EH-161 0-1' 080818 soil sample collected from 0-1 fbg | SP | |
| 5.0 | | X | X | X | X | X | Blind drilled from 5-20 fbg | X | X |
| 20.0 | | 49.0 | 0.0 | None | X | None | 20-21.3' : dry, light brown, fine-medium grain sand<br>21.3-22.1' : dry, dark brown, fine to medium grained sand<br>22.1-24.1' : moist, light brown, coarse sand, gravel poorly sorted | SP | |
| 25.0 | | 45.0 | 0.0 | None | X | None | 25-25.5' : moist, dark brown, clay<br>25.5-28.75' : moist, light brown, medium grain sand and gravel<br>last 6" saturated<br>*EH-161 28-29' 080818 soil sample collected fom 28-29 fbg | SP | Saturated |
| 30.0 | | | | | | | | | |
| 35.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 37 fbg including 10' of screen | | |
| 40.0 | | | | | | | | | |
| 45.0 | | | | | | | | | |
| 50.0 | | | | | | | | | |
| 55.0 | | | | | | | | | |
| 60.0 | | | | | | | | | |

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# BOREHOLE LOG

BORING ID #: EH-19B1
START DATE: 08/09/18 END DATE: 08/09/18

PROJECT NAME: East Hampton Airport
SITE LOCATION: Wainscott, NY
DRILLING CO.: Cascade
BOREHOLE DIAMETER:
TOTAL DEPTH REACHED: 45 fbg
LATITUDE:

PROJECT NO.: 60566160
BORING LOCATION:
DRILLER: Evan Moraitis
DEPTH TO BEDROCK:
INSPECTOR: A. Golden
LONGITUDE:

PROJECT MANAGER:
John Santacroce
DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 45'
WEATHER CONDITIONS: Sunny, 100° F
ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: DATE 2: | DEPTH 1: DEPTH 2: | TIME 1: TIME 2: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | | | |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL ---------- REMARKS |
| 0.0 | | 35.0 | 0.0 | None | X | None | 0-0.5': topsoil *EH-19B1 0-1' 080918 soil sample collected from 0-1 fbg<br>0.5-2.2': dry, dark brown fine grained sand<br>2.2-2.9': dry, light brown, medium grained sand; gravel: poorly sorted subrounded cobbles throughout | | | | | SP | |
| 5.0 | | X | X | X | X | X | * Due to time constraints no second soil sample was taken;<br>drilled blind to 45 fbg | | | | | X | X |
| 45.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 45 fbg including 15' of screen | | | | | | |
| 50.0 | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |
| 65.0 | | | | | | | | | | | | | |
| 70.0 | | | | | | | | | | | | | |
| 75.0 | | | | | | | | | | | | | |
| 80.0 | | | | | | | | | | | | | |
| 85.0 | | | | | | | | | | | | | |

| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-19A2<br>START DATE: 08/09/18 END DATE: 08/09/18 |
|---|---|---|

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 45'
TOTAL DEPTH REACHED: 45 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: 95° F, muggy
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 17.0 | 0.0 | None | X | None | 0-0.3' : topsoil<br>0.3-1.4' : dry, orange brown, medium fine grained sand<br>gravel: pebbles--> cobbles intermixed subrounded poorly sorted<br>*EH-19A2 0-1' 080918 soil sample collected from 0-1 fbg | | | | | SP | |
| 5.0 | | X | X | X | X | X | drill blind from 5-30' | | | | | X | X |
| 30.0 | | 60.0 | 0.0 | None | X | None | 30-32.2' : moist, dark brown, medium grained sand<br>32.2-35' : moist, light brown, medium coarse grained sand<br>gravel: SAA<br>*EH-19A2 34-35' 080918 soil sample collected from 34-35 fbg | | | | | SP | Saturated |
| 35.0 | | 60.0 | 0.0 | None | X | None | 35-37.5' : wet, light orange brown, medium grained sand<br>37.5-40' : light brown medium coarse grained sand, saturated<br>gravel:SAA | | | | | SP | |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 45 fbg including 10' of screen | | | | | | |
| 50.0 | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |
| 65.0 | | | | | | | | | | | | | |
| 70.0 | | | | | | | | | | | | | |

| AECOM | **AECOM Technical Services Northeast, Inc.**<br>**40 British American Boulevard**<br>**Latham, New York 12110**<br>**Phone: (518) 951-2200** | **BOREHOLE LOG**<br>BORING ID #: EH-19A1<br>START DATE: 08/09/18 END DATE: 08/09/18 |
|---|---|---|

PROJECT NAME: East Hampton Airport | PROJECT NO.: 60566160 | PROJECT MANAGER:
SITE LOCATION: Wainscott, NY | BORING LOCATION: | John Santacroce
DRILLING CO.: Cascade | DRILLER: Evan Moraitis | DRILLING METHOD: Geoprobe
BOREHOLE DIAMETER: | DEPTH TO BEDROCK: | TOTAL DEPTH DRILLED: 45'
TOTAL DEPTH REACHED: 45 fbg | INSPECTOR: A. Golden | WEATHER CONDITIONS: 90° F, muggy and sunny
LATITUDE: | LONGITUDE: | ELEVATION AND DATUM:

| FIELD SAMPLE INFORMATION | | | | | | | | HAMMER | SAMPLER | ST. WATER LEVELS | DATE 1: | DEPTH 1: | TIME 1: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WEIGHT(S) | | | | DATE 2: | DEPTH 2: | TIME 2: |
| | | | | | | | FALL | | | CASING | TUBE | CORE | RIG TYPE: |
| | | | | | | | TYPE | | | | | | |
| | | | | | | | ID/OD | | | | | | |
| DEPTH (feet bgs) | ~~Blow Count~~ | RECOVERY | PID (ppm) | ODOR OBSERVED | LAB ANALYSIS | VISIBLE PRODUCT | GEOLOGIC DESCRIPTION | | | | | LITHOLOGY/ SOIL TYPE | WATER LEVEL<br>---<br>REMARKS |
| 0.0 | | 26.0 | 0.0 | None | X | None | 0-0.5': topsoil, dry<br>0.5-2.2' : dry, orange brown, medium grained sand;<br>small subrounded pebbles intermixed, poorly sorted throughout<br>*EH-19A1 0-1' 080918 soil sample collected from 0-1 fbg | | | | | SP | |
| 5.0 | | X | X | X | X | X | 5-30 fbg drilled blind | | | | | X | X |
| 30.0 | | 46.0 | 0.0 | None | X | None | 30-32.8' : moist, dark brown, medium fine grained sand<br>32.8-33.8': wet, light brown, medium coarse sand<br>gravel: SAA<br>*EH-19A1 34-35' 080918 soil sample collected from 34-35 fbg | | | | | SP | |
| 35.0 | | 42.0 | 0.0 | None | X | None | 35-37' : saturated, brown, medium grained sand<br>37-38.5' : saturated, light brown, coarse sand<br>gravel:SAA | | | | | SP | Saturated |
| 40.0 | | | | | | | | | | | | | |
| 45.0 | | | | | | | 1" PVC Monitoring Well set to a total depth of 45 fbg including 10' of screen | | | | | | |
| 50.0 | | | | | | | | | | | | | |
| 55.0 | | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | | | |
| 65.0 | | | | | | | | | | | | | |
| 70.0 | | | | | | | | | | | | | |

# APPENDIX D

## Groundwater Sampling Logs

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-B Date: May 7, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-B 050718 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 35.03 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 28.54 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1218 | 1243 | 1303 | 1314 | | | |
| Water Level (0.33) | feet | 28.54 | 28.56 | 28.58 | 28.50 | | | |
| Volume Purged | gal | 0.00 | 0.29 | 0.58 | 0.87 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 91.30 | 84.40 | 87.20 | 90.10 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 9.00 | 7.61 | 8.59 | 8.87 | | | |
| Eh / ORP (+/- 10) | MeV | 9.2 | 164.1 | 90.1 | 78.1 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.124 | 0.082 | 0.039 | 0.037 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.25 | 7.27 | 6.65 | 6.31 | | | |
| Temp (+/- 0.5) | C° | 17.20 | 20.40 | 15.90 | 15.80 | | | |
| Color | Visual | Cloudy/Brown | Cloudy/Brown | Cloudy/Brown | Cloudy/Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1315

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-E Date: May 7, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-E 050718 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 34.89 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 28.11 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1331 | 1342 | 1349 | 1358 | | | |
| Water Level (0.33) | feet | 28.11 | 28.13 | 28.11 | 28.11 | | | |
| Volume Purged | gal | 0.00 | 0.30 | 0.60 | 0.90 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | 706 | 636 | | | |
| Dissolved Oxygen (+/- 10%) | % | 86.20 | 79.10 | 83.40 | 79.30 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 8.65 | 8.02 | 8.50 | 7.99 | | | |
| Eh / ORP (+/- 10) | MeV | 17.1 | 5.90 | 6.10 | 6.30 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.04 | 0.035 | 0.035 | 0.035 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.52 | 6.38 | 6.24 | 6.38 | | | |
| Temp (+/- 0.5) | C° | 15.0 | 14.80 | 14.40 | 15.20 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1400

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-16 Date: May 7, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-16 050718 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 33.01 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 24.46 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1431 | 1442 | 1452 | 1500 | | | |
| Water Level (0.33) | feet | 24.46 | 24.47 | 24.46 | 24.47 | | | |
| Volume Purged | gal | 0.00 | 0.38 | 0.76 | 1.14 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 98.00 | 90.10 | 93.70 | 91.60 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 9.23 | 9.61 | 9.53 | 9.37 | | | |
| Eh / ORP (+/- 10) | MeV | 135.25 | 123.5 | 118.5 | 111.8 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.681 | 0.434 | 0.359 | 0.462 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.28 | 6.02 | 6.02 | 6.06 | | | |
| Temp (+/- 0.5) | C° | 17.0 | 15.5 | 14.7 | 14.6 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1502

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-C Date: May 7, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-C 050718 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 34.95 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 28.6 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1540 | 1545 | 1552 | 1600 | | | |
| Water Level (0.33) | feet | 28.60 | 28.61 | 28.57 | 28.60 | | | |
| Volume Purged | gal | 0.00 | 0.29 | 0.58 | 0.87 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 78.90 | 77.00 | 77.00 | 77.40 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 8.16 | 8.15 | 7.99 | 8.12 | | | |
| Eh / ORP (+/- 10) | MeV | 39.1 | 36.2 | 39.4 | 40.3 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.081 | 0.076 | 0.075 | 0.076 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.77 | 5.54 | 5.39 | 5.41 | | | |
| Temp (+/- 0.5) | C° | 13.50 | 12.70 | 12.90 | 12.40 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1605

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: MW-10 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: MW-10 050818 QA/QC Collected? DUP 050818

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 30.09 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 8.2 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0904 | 0917 | 0931 | 0940 | | | |
| Water Level (0.33) | feet | 8.20 | 8.21 | 8.21 | 8.21 | | | |
| Volume Purged | gal | 0.00 | 0.98 | 1.96 | 2.94 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 52.7 | >1100 | >1100 | 902 | | | |
| Dissolved Oxygen (+/- 10%) | % | 59.90 | 69.20 | 60.90 | 66.70 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 6.35 | 7.34 | 6.45 | 7.15 | | | |
| Eh / ORP (+/- 10) | MeV | 126.7 | 145.3 | 154 | 161.2 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.082 | 0.098 | 0.109 | 0.113 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.48 | 5.22 | 5.09 | 5.09 | | | |
| Temp (+/- 0.5) | C° | 12.80 | 12.90 | 12.70 | 12.50 | | | |
| Color | Visual | Clear | Light Brown | Light Brown | Light Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 0942

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-P3 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-P3 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 30.25 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 22.19 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0829 | 0836 | 0844 | 0853 | | | |
| Water Level (0.33) | feet | 22.19 | 22.21 | 22.24 | 22.20 | | | |
| Volume Purged | gal | 0 | 0.36 | 0.72 | 1.08 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 87.00 | 83.30 | 80.00 | 83.80 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 9.30 | 8.91 | 8.63 | 8.71 | | | |
| Eh / ORP (+/- 10) | MeV | 78.1 | 79.9 | 61.3 | 65.2 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.118 | 0.135 | 0.148 | 0.144 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.67 | 6.01 | 5.78 | 5.66 | | | |
| Temp (+/- 0.5) | C° | 12.20 | 12.20 | 12.20 | 12.90 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 0854

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-1 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-1 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 39.91 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 30.42 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0957 | 1005 | 1015 | 1024 | | | |
| Water Level (0.33) | feet | 30.42 | 30.41 | 30.41 | 30.40 | | | |
| Volume Purged | gal | 0.00 | 0.43 | 0.86 | 1.29 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 83.30 | 83.40 | 80.10 | 80.90 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 8.14 | 8.13 | 8.03 | 8.09 | | | |
| Eh / ORP (+/- 10) | MeV | 110.8 | 94.0 | 78.7 | 73.1 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.097 | 0.090 | 0.099 | 0.095 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.97 | 6.20 | 6.20 | 6.23 | | | |
| Temp (+/- 0.5) | C° | 16.40 | 16.50 | 16.10 | 16.30 | | | |
| Color | Visual | Light Brown | Light Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1025

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-19B Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-19B 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 46.95 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 33.96 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1110 | 1122 | 1133 | 1145 | | | |
| Water Level (0.33) | feet | 33.96 | 33.96 | 33.97 | 33.97 | | | |
| Volume Purged | gal | 0 | 0.58 | 1.16 | 1.74 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 854 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 72.30 | 69.30 | 68.30 | 68.20 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 7.40 | 7.03 | 6.94 | 6.97 | | | |
| Eh / ORP (+/- 10) | MeV | 16.5 | 7.5 | 3.6 | 2.8 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.108 | 0.118 | 0.121 | 0.127 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.35 | 5.98 | 5.73 | 5.74 | | | |
| Temp (+/- 0.5) | C° | 14.20 | 14.60 | 14.50 | 14.80 | | | |
| Color | Visual | Light Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1146

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-A Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-A 050818 QA/QC Collected? MS/MSD 050818

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 30.1 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 14.99 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1222 | 1233 | 1242 | 1253 | | | |
| Water Level (0.33) | feet | 19.99 | 19.99 | 19.99 | 19.99 | | | |
| Volume Purged | gal | 0.00 | 0.46 | 0.92 | 1.38 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 100.40 | 97.60 | 97.80 | 95.70 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 10.59 | 10.60 | 10.50 | 10.35 | | | |
| Eh / ORP (+/- 10) | MeV | 75.0 | 93.6 | 94.4 | 94.4 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.028 | 0.027 | 0.026 | 0.027 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.80 | 5.65 | 5.64 | 5.61 | | | |
| Temp (+/- 0.5) | C° | 12.90 | 11.80 | 12.10 | 11.70 | | | |
| Color | Visual | Cloudy | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1254

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-19A Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-19A 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 42.06 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 34.41 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1335 | 1345 | 1353 | 1400 | | | |
| Water Level (0.33) | feet | 34.41 | 34.42 | 34.39 | 34.40 | | | |
| Volume Purged | gal | 0 | 0.34 | 0.68 | 1.02 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 78.60 | 81.20 | 83.00 | 83.50 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 7.75 | 8.36 | 8.49 | 8.60 | | | |
| Eh / ORP (+/- 10) | MeV | -6.4 | -17.4 | -16.9 | -12 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.307 | 0.312 | 0.281 | 0.275 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.11 | 6.16 | 6.15 | 6.13 | | | |
| Temp (+/- 0.5) | C° | 15.90 | 14.00 | 13.70 | 13.90 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1402

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-P1 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-P1 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 50.05 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 41.45 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1505 | 1516 | 1524 | 1534 | | | |
| Water Level (0.33) | feet | 41.45 | 41.40 | 41.43 | 41.44 | | | |
| Volume Purged | gal | 0.00 | 0.39 | 0.78 | 1.17 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 63.10 | 59.90 | 55.10 | 60.80 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 6.39 | 6.14 | 5.75 | 6.40 | | | |
| Eh / ORP (+/- 10) | MeV | -15.6 | -24.4 | -31.8 | -33.9 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.055 | 0.052 | 0.052 | 0.052 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.71 | 5.68 | 5.80 | 5.71 | | | |
| Temp (+/- 0.5) | C° | 14.60 | 13.10 | 13.70 | 13.60 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1540

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-P2 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-P2 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 50.1 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 35.42 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1421 | 1433 | 1441 | 1452 | | | |
| Water Level (0.33) | feet | 35.42 | 35.46 | 35.48 | 35.47 | | | |
| Volume Purged | gal | 0.00 | 0.66 | 1.32 | 1.98 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 104.0 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 58.80 | 64.20 | 68.60 | 67.60 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 5.64 | 6.33 | 7.10 | 7.00 | | | |
| Eh / ORP (+/- 10) | MeV | -57.9 | -63.1 | -51.2 | -47.7 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.1 | 0.082 | 0.082 | 0.078 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.26 | 6.17 | 6.04 | 5.95 | | | |
| Temp (+/- 0.5) | C° | 17.30 | 15.90 | 13.70 | 13.70 | | | |
| Color | Visual | Clear | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1454

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-10 Date: May 8, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-10 050818 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 39.87 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 33.58 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| Parameter | Units | Readings | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1620 | 1627 | 1633 | 1637 | | | |
| Water Level (0.33) | feet | 33.58 | 33.60 | 33.56 | 33.50 | | | |
| Volume Purged | gal | 0.00 | 0.28 | 0.56 | 0.84 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | >1100 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 84.90 | 82.60 | 81.30 | 85.40 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 8.00 | 8.06 | 7.98 | 8.57 | | | |
| Eh / ORP (+/- 10) | MeV | 43.5 | 25.7 | 21.2 | 23.1 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.163 | 0.229 | 0.206 | 0.217 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.89 | 5.95 | 5.93 | 5.87 | | | |
| Temp (+/- 0.5) | C° | 18.10 | 16.40 | 16.20 | 14.90 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 1640

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: EH-18 Date: May 9, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: EH-18 050918 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 50.14 | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 40.09 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0801 | 0811 | 0820 | 0831 | | | |
| Water Level (0.33) | feet | 40.09 | 40.10 | 40.10 | 40.10 | | | |
| Volume Purged | gal | 0.00 | 0.45 | 0.90 | 1.35 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 1029.0 | >1100 | >1100 | >1100 | | | |
| Dissolved Oxygen (+/- 10%) | % | 630.00 | 76.70 | 71.40 | 78.30 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 6.16 | 6.69 | 6.92 | 7.70 | | | |
| Eh / ORP (+/- 10) | MeV | 23.4 | 43.7 | 44.6 | 44.9 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.062 | 0.052 | 0.05 | 0.052 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.00 | 5.66 | 5.60 | 5.57 | | | |
| Temp (+/- 0.5) | C° | 16.30 | 15.50 | 16.70 | 16.00 | | | |
| Color | Visual | Cloudy | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample Time @ 0834

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport, 60566160

Monitoring Well Number: Catch Basin Date: May 9, 2018

Samplers: Greg Dunlavey and Alexandra Golden

Sample Number: Catch Basin 1 050918 QA/QC Collected? -

Purging / Sampling Method: Bailing - 3 well volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | - | feet |
| 2. D = Riser Diameter (I.D.): | | feet |
| 3. W = Depth to Water: | 5.35 | feet |
| 4. C = Column of Water in Well: | | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | | gal |
| 6. 3(V) = Target Purge Volume | | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0925 | | | | | | |
| Water Level (0.33) | feet | 5.35 | | | | | | |
| Volume Purged | gal | 0.00 | | | | | | |
| Flow Rate | mL/min | - | | | | | | |
| Turbidity (+/- 10%) | NTU | 19.1 | | | | | | |
| Dissolved Oxygen (+/- 10%) | % | 64.70 | | | | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 6.50 | | | | | | |
| Eh / ORP (+/- 10) | MeV | 1.5 | | | | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 0.063 | | | | | | |
| Conductivity (+/- 3%) | mS/cm | - | | | | | | |
| pH (+/- 0.1) | pH unit | 6.33 | | | | | | |
| Temp (+/- 0.5) | C° | 15.40 | | | | | | |
| Color | Visual | Clear | | | | | | |
| Odor | Olfactory | None | | | | | | |

**Comments:**

Sample Time @ 0930

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-161 Date: August 9, 2018

Samplers: Alexandra Golden

Sample Number: EH-161 080918 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 37.21 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 28.91 | feet |
| 4. C = Column of Water in Well: | 8.3 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.31 | gal |
| 6. 3(V) = Target Purge Volume | 0.93 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1936 | 1942 | 1948 | 1954 | | | |
| Water Level (0.33) | feet | 28.91 | 28.96 | 28.98 | 28.99 | | | |
| Volume Purged | gal | 0.00 | 0.311 | 0.622 | 0.933 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | 839 | 822 | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 52.30 | 59.50 | 47.20 | 64.40 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 5.15 | 5.79 | 4.62 | 6.35 | | | |
| Eh / ORP (+/- 10) | MeV | -52.2 | -1.1 | 25.9 | 33.6 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 56.1 | 53.9 | 49.6 | 41.9 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | -13.8 | 5.47 | 6.28 | 5.18 | | | |
| Temp (+/- 0.5) | C° | 16.30 | 16.60 | 16.30 | 16.10 | | | |
| Color | Visual | murky | murky | murky | murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 1955

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH- B1 Date: August 9, 2018

Samplers: Alexandra Golden

Sample Number: EH-B1 080918 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 37.11 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 29.43 | feet |
| 4. C = Column of Water in Well: | 7.68 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.28 | gal |
| 6. 3(V) = Target Purge Volume | 0.87 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 2005 | 2009 | 2015 | 2019 | | | |
| Water Level (0.33) | feet | 29.43 | 29.49 | 29.52 | 29.55 | | | |
| Volume Purged | gal | 0.00 | 0.28 | 0.57 | 0.87 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | 961 | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 44.9 | 16.2 | 57.9 | 58.1 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 4.57 | 1.62 | 5.88 | 5.92 | | | |
| Eh / ORP (+/- 10) | MeV | -11.9 | -21.1 | 29.6 | 32.1 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 97.7 | 101.1 | 99.1 | 89.5 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.85 | 5.84 | 5.55 | 6.31 | | | |
| Temp (+/- 0.5) | C° | 19.4 | 19.3 | 19.0 | 19.0 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 2020

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-19B1 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-19B1 08102018 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 44.91 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 33.13 | feet |
| 4. C = Column of Water in Well: | 11.78 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.44 | gal |
| 6. 3(V) = Target Purge Volume | 1.32 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0800 | 0806 | 0812 | 0818 | | | |
| Water Level (0.33) | feet | 44.91 | 45.01 | 45.02 | 45.08 | | | |
| Volume Purged | gal | 0.00 | 0.44 | 0.88 | 1.32 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | OR | 875 | 971 | | | |
| Dissolved Oxygen (+/- 10%) | % | 32.2 | 38.0 | 40.1 | 38.6 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 3.07 | 3.8 | 4.1 | 3.86 | | | |
| Eh / ORP (+/- 10) | MeV | 0.00 | -6.50 | -11.50 | -13.20 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 156.9 | 149.4 | 140.7 | 144.2 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 6.88 | 7.11 | 7.11 | 7.13 | | | |
| Temp (+/- 0.5) | C° | 17.50 | 15.20 | 15.10 | 15.10 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 0822

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-19A2 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-19A2 081018 QA/QC Collected? Dup -2

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 42.91 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 36.72 | feet |
| 4. C = Column of Water in Well: | 6.19 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.23 | gal |
| 6. 3(V) = Target Purge Volume | 0.69 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 0920 | 0926 | 0931 | 0937 | | | |
| Water Level (0.33) | feet | 36.72 | 36.78 | 36.81 | 36.90 | | | |
| Volume Purged | gal | 0.00 | 0.23 | 0.46 | 0.69 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | 1060 | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 43.3 | 42.8 | 63.3 | 60.1 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 4.20 | 4.38 | 6.46 | 6.25 | | | |
| Eh / ORP (+/- 10) | MeV | -15.8 | -5.9 | 39.3 | -8.3 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 357.9 | 364.4 | 362.4 | 355.7 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.76 | 6.62 | 5.61 | 5.90 | | | |
| Temp (+/- 0.5) | C° | 16.80 | 14.10 | 14.10 | 15.70 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 0940

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-19A1 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-19A1 081018 QA/QC Collected? MS/MSD 081018

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 44.79 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 34.1 | feet |
| 4. C = Column of Water in Well: | 10.69 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.40 | gal |
| 6. 3(V) = Target Purge Volume | 1.20 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1010 | 1017 | 1024 | 1037 | | | |
| Water Level (0.33) | feet | 34.10 | 34.15 | 34.20 | 34.30 | | | |
| Volume Purged | gal | 0.00 | 0.40 | 0.80 | 1.20 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | 906.0 | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 19.90 | 44.40 | 77.10 | 54.70 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 1.92 | 4.35 | 7.55 | 4.45 | | | |
| Eh / ORP (+/- 10) | MeV | -219.9 | -89.1 | 12.5 | 7.4 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 97.8 | 78.7 | 73.7 | 67.5 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 7.19 | 5.77 | 6.87 | 6.48 | | | |
| Temp (+/- 0.5) | C° | 16.80 | 16.20 | 16.20 | 16.20 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 1040

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-162 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-162 081018 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 34.90 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 30.77 | feet |
| 4. C = Column of Water in Well: | 4.13 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.17 | gal |
| 6. 3(V) = Target Purge Volume | 0.51 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1100 | 1105 | 1110 | 1115 | | | |
| Water Level (0.33) | feet | 30.77 | 30.78 | 30.81 | 30.85 | | | |
| Volume Purged | gal | 0.00 | 0.17 | 0.34 | 0.51 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | OR | OR | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 55.20 | 52.20 | 66.40 | 57.10 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 4.96 | 5.08 | 6.55 | 5.23 | | | |
| Eh / ORP (+/- 10) | MeV | 23.1 | 23.4 | 10.9 | -4.2 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 282.5 | 300.4 | 296.9 | 317.8 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.56 | 5.48 | 5.50 | 5.80 | | | |
| Temp (+/- 0.5) | C° | 20.50 | 16.40 | 15.70 | 20.30 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 1120

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-P1 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-P1 081018 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 50.05 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 43.00 | feet |
| 4. C = Column of Water in Well: | 7.05 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.30 | gal |
| 6. 3(V) = Target Purge Volume | 0.90 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1205 | 1220 | 1235 | 1250 | | | |
| Water Level (0.33) | feet | 43.00 | 43.16 | 43.16 | 43.18 | | | |
| Volume Purged | gal | 0.00 | 0.30 | 0.60 | 0.90 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 971.0 | OR | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 84.80 | 80.60 | 92.60 | 93.70 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 8.05 | 7.83 | 9.15 | 92.80 | | | |
| Eh / ORP (+/- 10) | MeV | 132.4 | 182.8 | 175.6 | 177.7 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 73.1 | 71.7 | 70.2 | 69.8 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 5.93 | 4.60 | 5.21 | 5.37 | | | |
| Temp (+/- 0.5) | C° | 17.60 | 16.40 | 16.30 | 17.20 | | | |
| Color | Visual | Brown | Brown | Brown | Brown | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:** *Slow bailing trouble with bailer, needed to switch bailers midway

Sample time @ 1300

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-SAS Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-SAS 081018 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 33.32 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 26.4 | feet |
| 4. C = Column of Water in Well: | 6.92 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.26 | gal |
| 6. 3(V) = Target Purge Volume | 0.78 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1510 | 1515 | 1520 | 1525 | | | |
| Water Level (0.33) | feet | - | 26.45 | 26.45 | 26.48 | | | |
| Volume Purged | gal | 0.00 | 0.26 | 0.52 | 0.78 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 757.0 | OR | OR | OR | | | |
| Dissolved Oxygen (+/- 10%) | % | 48.00 | 57.80 | 73.90 | 67.50 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 4.01 | 5.62 | 7.52 | 6.88 | | | |
| Eh / ORP (+/- 10) | MeV | -41.2 | 48.5 | 48.7 | 44.8 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 240.5 | 78.4 | 71.7 | 70.2 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 7.29 | 5.19 | 5.24 | -9.10 | | | |
| Temp (+/- 0.5) | C° | 23.8 | 22.1 | 21.7 | 14.6 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 1530

OR= Over-range

# Monitoring Well Purging / Sampling Form

Project Name and Number: East Hampton Airport 60566160

Monitoring Well Number: EH-E1 Date: August 10, 2018

Samplers: Alexandra Golden

Sample Number: EH-E1 081018 QA/QC Collected? -

Purging / Sampling Method: Bailing 3 Well Volumes

| | | |
|---|---|---|
| 1. L = Well Depth: | 37.05 | feet |
| 2. D = Riser Diameter (I.D.): | 0.08 | feet |
| 3. W = Depth to Water: | 29.41 | feet |
| 4. C = Column of Water in Well: | 7.64 | feet |
| 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ | 0.29 | gal |
| 6. 3(V) = Target Purge Volume | 0.86 | gal |

| D (inches) | D (feet) |
|---|---|
| 1-inch | 0.08 |
| 2-inch | 0.17 |
| 3-inch | 0.25 |
| 4-inch | 0.33 |
| 6-inch | 0.50 |

Conversion factors to determine V given C

| D (inches) | 1-inch | 2-inch | 3-inch | 4-inch | 6-inch |
|---|---|---|---|---|---|
| V (gal / ft) | 0.041 | 0.163 | 0.37 | 0.65 | 1.5 |

Water Quality Readings Collected Using YSI 556 and HACH 2100 Turbidimeter

| **Parameter** | **Units** | **Readings** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | 24 hr | 1620 | 1625 | 1631 | 1637 | | | |
| Water Level (0.33) | feet | 29.41 | 29.46 | 29.47 | 29.47 | | | |
| Volume Purged | gal | 0.00 | 0.29 | 0.58 | 0.86 | | | |
| Flow Rate | mL/min | - | - | - | - | | | |
| Turbidity (+/- 10%) | NTU | 587.0 | 650.0 | 849.0 | 897.0 | | | |
| Dissolved Oxygen (+/- 10%) | % | 26.20 | 78.90 | 77.00 | 75.20 | | | |
| Dissolved Oxygen (+/- 10%) | mg/L | 2.31 | 8.06 | 7.91 | 7.53 | | | |
| Eh / ORP (+/- 10) | MeV | -149.2 | 73.2 | 69.9 | 65.6 | | | |
| Specific Conductivity (+/- 3%) | $mS/cm^c$ | 94.0 | 48.1 | 46.6 | 43.2 | | | |
| Conductivity (+/- 3%) | mS/cm | - | - | - | - | | | |
| pH (+/- 0.1) | pH unit | 7.32 | 5.23 | 6.20 | 6.13 | | | |
| Temp (+/- 0.5) | C° | 19.50 | 20.10 | 19.80 | 20.10 | | | |
| Color | Visual | Murky | Murky | Murky | Murky | | | |
| Odor | Olfactory | None | None | None | None | | | |

**Comments:**

Sample time @ 1640

# APPENDIX E

## Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

# DATA USABILITY SUMMARY REPORT
# EAST HAMPTON AIRPORT, WAINSCOTT, NEW YORK

Client: AECOM Technical Services, Inc., Latham, New York
SDG: K1803963
Laboratory: ALS Environmental, Kelso, Washington
Site: East Hampton Airport, Wainscott, New York
Date: June 20, 2018

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 1 | HH-20/21 042518 | K1803963-001 | Water |
| 2 | HH-18 042518 | K1803963-002 | Water |
| 3 | SAS-1 042518 | K1803963-003 | Water |
| 4 | SAS-2 042518 | K1803963-004 | Water |
| 5 | SAS-3 042518 | K1803963-005 | Water |
| 6 | EH-1 042518 | K1803963-006 | Water |
| 6MS | EH-1 042518MS | K1803963-006MS | Water |
| 6MSD | EH-1 042518MSD | K1803963-006MSD | Water |
| 7 | DUP | K1803963-007 | Water |
| 8 | FIELD BLANK | K1803963-008 | Water |

A Data Usability Summary Review was performed on the analytical data for seven water samples and one aqueous field blank sample collected on April 25, 2018 by AECOM at the East Hampton Airport site in Wainscott, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| PFCs | USEPA Method 537 Modified |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times

- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

## Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the following deficiencies.

- n-Ethylperfluorooctane sulfonamidoacetic acid was qualified as estimated in all samples due to a high continuing calibration %D value.
- Several compounds were qualified as nondetected in several samples due to method blank contamination.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

## Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

## Perfluorinated Compounds (PFCs)

## Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

## LC/MS Tuning

- All criteria were met.

## Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

## Continuing Calibration

- All percent difference (%D) and RRF criteria were met except for the following.

| CCAL Date | Compound | %D | Qualifier |
|---|---|---|---|
| 5/3/2018 | n-Ethylperfluorooctane Sulfonamidoacetic Acid | 39.45% | UJ - All Samples |

## Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1805759-04 | PFDA | 0.92 | U | 1-8 |
| | PFUnDA | 1.1 | U | 1-8 |
| | PFDoDA | 0.74 | U | 1-4, 6, 8 |
| | PFTrDA | 0.92 | U | 4, 7 |

## Field QC Blank

- Field QC samples were free of contamination.

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FIELD BLANK | None - ND | - | - | - |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable %R and RPD values.

## Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Target Compound Identification

- All mass spectra and quantitation criteria were met.

## Compound Quantitation

- All criteria were met.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| PFCs | | | | |
|---|---|---|---|---|
| Compound | SAS-2 042518 ng/L | DUP ng/L | RPD | Qualifier |
| PFHxS | 1.6 | 1.3 | 21% | None |
| PFBA | 4.1 | 3.3 | 22% | |
| PFPeA | 4.2 | 3.8 | 10% | |
| PFHxA | 4.1 | 3.9 | 5% | |
| PFHpA | 1.7 | 1.7 | 0% | |
| PFOA | 0.73 | 0.71 | 3% | |
| PFNA | 0.94U | 0.99 | NC | |
| PFTeDA | 1.6 | 1.2U | NC | |

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/20/18

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

**ALS Group USA, Corp.**
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Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 13:25 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | HH-20/21 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-001 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 | U | 4.0 | 0.90 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **5.8** | | 4.0 | 0.94 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 | U | 4.0 | 0.88 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.2** | **J** | 1.9 | 1.0 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.0 | 1.3 | 1 | 05/04/18 07:42 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 | U | 8.1 | 2.7 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 | U | 4.0 | 1.1 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | **1.2** | **J** | 4.0 | 0.92 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.6** | **J** | 4.0 | 1.2 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **1.4** | **J** | 1.6 | 0.46 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 | U | 4.0 | 0.94 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **1.0** | J U | 4.0 | 0.52 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.90** | J U | 4.0 | 0.31 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.58** | J U | 4.0 | 0.46 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 | U | 4.0 | 0.75 | 1 | 05/04/18 07:42 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.0 | 1.2 | 1 | 05/04/18 07:42 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | **0.37** | **J** | 4.0 | 0.35 | 1 | 05/04/18 07:42 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | U | 8.0 | 4.2 | 1 | 05/04/18 07:42 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | J UJ | 4.0 | 0.83 | 1 | 05/04/18 07:42 | 5/3/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.0 | 1.2 | 1 | 05/04/18 07:42 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.0 | 0.65 | 1 | 05/04/18 07:42 | 5/3/18 | |


NW 6/20/18

**ALS Group USA, Corp.**
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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 14:22 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | HH-18 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-002 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **6.6** | 4.2 | 0.94 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **8.9** | 1.9 | 1.0 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/04/18 07:52 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.5 | 2.7 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.0 J** | 4.2 | 1.2 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **2.1** | 1.7 | 0.46 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | **1.2 J** | 4.2 | 0.94 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.99** ✗U | 4.2 | 0.52 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.0** ✗U | 4.2 | 0.31 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.52** ✗U | 4.2 | 0.46 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 05/04/18 07:52 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/04/18 07:52 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/04/18 07:52 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 07:52 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 ✗UJ | 4.2 | 0.83 | 1 | 05/04/18 07:52 | 5/3/18 | ✗ |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/04/18 07:52 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/04/18 07:52 | 5/3/18 | |


6/20/18

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 13:52 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | SAS-1 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-003 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **29** | | 4.3 | 0.90 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **160** | | 4.3 | 0.94 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 | U | 4.3 | 0.88 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 | U | 1.9 | 1.0 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.3 | 1.3 | 1 | 05/04/18 08:03 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **3.4** | **J** | 8.6 | 2.7 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | **8.9** | | 4.3 | 1.1 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | **22** | | 4.3 | 0.92 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **7.3** | | 4.3 | 1.2 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **22** | | 1.7 | 0.46 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | **1.0** | **J** | 4.3 | 0.94 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.86** | ~~J~~ U | 4.3 | 0.52 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1** | ~~J~~ U | 4.3 | 0.31 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.83** | ~~J~~ U | 4.3 | 0.46 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 | U | 4.3 | 0.75 | 1 | 05/04/18 08:03 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | **1.4** | **J** | 4.3 | 1.2 | 1 | 05/04/18 08:03 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.3 | 0.35 | 1 | 05/04/18 08:03 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | U | 8.0 | 4.2 | 1 | 05/04/18 08:03 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | ~~J~~ UJ | 4.3 | 0.83 | 1 | 05/04/18 08:03 | 5/3/18 | ✓ |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.3 | 1.2 | 1 | 05/04/18 08:03 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.3 | 0.65 | 1 | 05/04/18 08:03 | 5/3/18 | |

**ALS Group USA, Corp.**
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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 14:00 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | SAS-2 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-004 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.6 J** | 4.3 | 0.94 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/04/18 08:13 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **4.1 J** | 8.6 | 2.7 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | **4.2 J** | 4.3 | 1.1 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | **4.1 J** | 4.3 | 0.92 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.7 J** | 4.3 | 1.2 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **0.73 J** | 1.7 | 0.46 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.3 | 0.94 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.87** ~~J~~ U | 4.3 | 0.52 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.79** ~~J~~ U | 4.3 | 0.31 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.70** ~~J~~ U | 4.3 | 0.46 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.92** ~~J~~ U | 4.3 | 0.75 | 1 | 05/04/18 08:13 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | **1.6 J** | 4.3 | 1.2 | 1 | 05/04/18 08:13 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/04/18 08:13 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 08:13 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 ~~J~~ UJ | 4.3 | 0.83 | 1 | 05/04/18 08:13 | 5/3/18 | ✗ |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:13 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/04/18 08:13 | 5/3/18 | |

**ALS Group USA, Corp.**
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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 14:33 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | SAS-3 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-005 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **3.8 J** | 4.3 | 0.94 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **3.5** | 1.9 | 1.0 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/04/18 08:24 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.6 | 2.7 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.3 | 1.1 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.3 | 0.92 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.7 J** | 4.3 | 1.2 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **1.7** | 1.7 | 0.46 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | **1.0 J** | 4.3 | 0.94 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.82** ~~J~~ U | 4.3 | 0.52 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1** ~~J~~ U | 4.3 | 0.31 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.3 | 0.46 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.3 | 0.75 | 1 | 05/04/18 08:24 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:24 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/04/18 08:24 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 08:24 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 ~~J~~ UJ | 4.3 | 0.83 | 1 | 05/04/18 08:24 | 5/3/18 | * |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:24 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/04/18 08:24 | 5/3/18 | |


New Rico 1.8

**ALS Group USA, Corp.**
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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 14:47 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | EH-1 042518 | **Units:** | ng/L |
| **Lab Code:** | K1803963-006 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.0 J** | 4.3 | 0.94 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/04/18 08:34 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.6 | 2.7 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.3 | 1.1 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.3 | 0.92 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.3 | 0.94 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.81** J U | 4.3 | 0.52 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.2** J U | 4.3 | 0.31 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.68** J U | 4.3 | 0.46 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.3 | 0.75 | 1 | 05/04/18 08:34 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:34 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/04/18 08:34 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 08:34 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 J UJ | 4.3 | 0.83 | 1 | 05/04/18 08:34 | 5/3/18 | J |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 08:34 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/04/18 08:34 | 5/3/18 | |



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**ALS Group USA, Corp.**
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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | DUP | **Units:** | ng/L |
| **Lab Code:** | K1803963-007 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.3 J** | 4.3 | 0.94 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/04/18 09:06 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **3.3 J** | 8.6 | 2.7 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | **3.8 J** | 4.3 | 1.1 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | **3.9 J** | 4.3 | 0.92 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.7 J** | 4.3 | 1.2 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | **0.71 J** | 1.7 | 0.46 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | **0.99 J** | 4.3 | 0.94 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.58 J U** | 4.3 | 0.52 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.88 J U** | 4.3 | 0.31 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.3 | 0.46 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.75 J U** | 4.3 | 0.75 | 1 | 05/04/18 09:06 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 09:06 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/04/18 09:06 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 09:06 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 J U J | 4.3 | 0.83 | 1 | 05/04/18 09:06 | 5/3/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 09:06 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/04/18 09:06 | 5/3/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1803963 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/25/18 |
| **Sample Matrix:** | Water | **Date Received:** | 04/28/18 09:00 |
| **Sample Name:** | FIELD BLANK | **Units:** | ng/L |
| **Lab Code:** | K1803963-008 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.3 | 0.94 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/04/18 09:16 | 5/3/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.6 | 2.7 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.3 | 1.1 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.3 | 0.92 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.3 | 0.94 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorodecanoic acid (PFDA) | **0.84** J U | 4.3 | 0.52 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.96** J U | 4.3 | 0.31 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.76** J U | 4.3 | 0.46 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.3 | 0.75 | 1 | 05/04/18 09:16 | 5/3/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 09:16 | 5/3/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/04/18 09:16 | 5/3/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 05/04/18 09:16 | 5/3/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 J U J | 4.3 | 0.83 | 1 | 05/04/18 09:16 | 5/3/18 | J |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/04/18 09:16 | 5/3/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/04/18 09:16 | 5/3/18 | |


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ENVIRONMENTAL
Data Services, Inc.

# DATA USABILITY SUMMARY REPORT
# EAST HAMPTON AIRPORT, WAINSCOTT, NEW YORK

Client: AECOM Technical Services, Inc., Latham, New York
SDG: K1804200
Laboratory: ALS Environmental, Kelso, Washington
Site: East Hampton Airport, Wainscott, New York
Date: June 20, 2018

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 1 | EH-B 043018 0-1' | K1804200-001 | Soil |
| 2 | EH-B 043018 19-20' | K1804200-002 | Soil |
| 3 | EH-B 043018 26-27' | K1804200-003 | Soil |
| 4 | EH-E 043018 0-1' | K1804200-004 | Soil |
| 5 | EH-E 043018 23-24' | K1804200-005 | Soil |
| 6 | EH-16 043018 0-1' | K1804200-006 | Soil |
| 7 | EH-16 043018 23-24' | K1804200-007 | Soil |
| 8 | EQ-BLANK 1 | K1804200-008 | Water |
| 9 | EH-C 050118 0-1' | K1804200-009 | Soil |
| 10 | EH-C 050118 29-30' | K1804200-010 | Soil |
| 11 | EQ-BLANK 2 050118 | K1804200-011 | Water |
| 12 | FIELD BLANK 1 | K1804200-012 | Water |
| 13 | EH-1 050118 0-1' | K1804200-013 | Soil |
| 14 | EH-1 050118 32-33' | K1804200-014 | Soil |
| 15 | DUP-1 | K1804200-015 | Soil |
| 16 | DUP-2 | K1804200-016 | Soil |
| 17 | EH-10 050118 0-1' | K1804200-017 | Soil |
| 18 | EH-10 050118 33-34' | K1804200-018 | Soil |
| 19 | EH-A 050218 0-1' | K1804200-019 | Soil |
| 20 | EH-A 050218 22-23' | K1804200-020 | Soil |
| 21 | EH-A1 050218 0-1' | K1804200-021 | Soil |
| 22 | EH-A1 050218 23-24' | K1804200-022 | Soil |
| 22MS | EH-A1 050218 23-24'MS | K1804200-022MS | Soil |
| 22MSD | EH-A1 050218 23-24'MSD | K1804200-022MSD | Soil |
| 23 | EH-A3 050218 0-1' | K1804200-023 | Soil |
| 24 | EH-A3 050218 22-23' | K1804200-024 | Soil |
| 24MS | EH-A3 050218 22-23'MS | K1804200-024MS | Soil |
| 24MSD | EH-A3 050218 22-23'MSD | K1804200-024MSD | Soil |
| 25 | EH-A2 050218 0-1' | K1804200-025 | Soil |
| 26 | EH-A2 050218 23-24' | K1804200-026 | Soil |
| 27 | EQ-BLANK 3 050218 | K1804200-027 | Water |
| 28 | FIELD BLANK 2 | K1804200-028 | Water |
| 29 | EQ-BLANK 4 050318 | K1804200-029 | Water |
| 30 | EH-18 050318 0-1' | K1804200-030 | Soil |
| 31 | EH-18 050318 41-42' | K1804200-031 | Soil |
| 32 | EH-19B 050318 0-1' | K1804200-032 | Soil |
| 33 | EH-19B 050318 36-37' | K1804200-033 | Soil |
| 34 | EQ-BLANK 5 050418 | K1804200-034 | Water |

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 35 | EH-19A 050418 0-1' | K1804200-035 | Soil |
| 36 | EH-19A 050418 31-32' | K1804200-036 | Soil |

A Data Usability Summary Review was performed on the analytical data for twenty-nine soil samples, five aqueous equipment blank samples, and two aqueous field blank samples collected on April 30-May 4, 2018 by AECOM at the East Hampton Airport site in Wainscott, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| PFCs | USEPA Method 537 Modified |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

## Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the following deficiencies.

- Several compounds were qualified as nondetected in several samples due to method blank contamination.
- PFBS was qualified as estimated in one sample due to a low MS/MSD recovery.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

## Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

## Perfluorinated Compounds (PFCs)

## Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

## LC/MS Tuning

- All criteria were met.

## Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

## Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

## Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID | Compound | Conc. ng/g | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1805922-04 | PFNA | 0.22 | U | 1-7, 9-10, 13-17, 19, 21-23 |
| | PFDA | 0.22 | U | 1-2, 4-5, 9, 13-19, 23 |
| KQ1805923-04 | PFHpA | 0.22 | U | 30, 32, 36 |
| | PFNA | 0.20 | U | 24-26, 30-32, 35-36 |
| | PFDA | 0.21 | U | 24, 26, 30-32, 35 |

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1805943-06 | PFDA | 0.78 | U | 8, 11-12, 27, 29, 34 |

## Field QC Blank

- Field QC samples were free of contamination.

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| EQ-BLANK 1 | None - ND | - | - | - |
| EQ-BLANK 2 050118 | None - ND | - | - | - |
| FIELD BLANK 1 | None - ND | - | - | - |
| EQ-BLANK 3 050218 | None - ND | - | - | - |
| FIELD BLANK 2 | None - ND | - | - | - |
| EQ-BLANK 4 050318 | None - ND | - | - | - |
| EQ-BLANK 5 050418 | PFHxS | 0.96 | None | All Associated ND |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable %R and RPD values except for the following.

| EDS Sample ID | Compound | MS %R/MSD %R/RPD | Qualifier | Affected Samples |
|---|---|---|---|---|
| 22 | PFBS | OK/49%/OK | UJ | 22 |

## Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Target Compound Identification

- All mass spectra and quantitation criteria were met.

## Compound Quantitation

- All criteria were met.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| PFCs | | | | |
|---|---|---|---|---|
| Compound | EH-1 050118 0-1' ng/L | DUP-1 ng/L | RPD | Qualifier |
| PFOS | 10 | 15 | 40% | None |
| PFHpA | 0.24 | 0.25 | 4% | |

| PFCs | | | | |
|---|---|---|---|---|
| Compound | EH-1 050118 32-33' ng/L | DUP-2 ng/L | RPD | Qualifier |
| PFHxS | 0.20 | 0.37 | 60% | None - <5X RL |
| PFOS | 0.19 | 0.35 | 59% | |
| PFHpA | ND | 0.25 | NC | None |

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/20/18

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 10:05 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-B 043018 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-001 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.53 J** | 0.99 | 0.17 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.99 | 0.14 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **4.0** | 0.99 | 0.17 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:08 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.99 | 0.19 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.99 | 0.21 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.28 J** | 0.99 | 0.22 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.32** J U | 0.99 | 0.18 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.41** J U | 0.99 | 0.20 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.26 J** | 0.99 | 0.25 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.99 | 0.26 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.24 J** | 0.99 | 0.15 | 1 | 05/12/18 09:08 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.99 | 0.38 | 1 | 05/12/18 09:08 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.99 | 0.13 | 1 | 05/12/18 09:08 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.085 | 1 | 05/12/18 09:08 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.11 | 1 | 05/12/18 09:08 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:08 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.99 | 0.22 | 1 | 05/12/18 09:08 | 5/11/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 10:10 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-B 043018 19-20' | **Units:** | ng/g |
| **Lab Code:** | K1804200-002 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.22 J** | 1.0 | 0.18 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:18 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.26 J** | 1.0 | 0.23 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.25 J** U | 1.0 | 0.19 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.25 J** U | 1.0 | 0.21 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.21 J** | 1.0 | 0.16 | 1 | 05/12/18 09:18 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 09:18 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 09:18 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.086 | 1 | 05/12/18 09:18 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 09:18 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:18 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 09:18 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 11:00 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-B 043018 26-27' | **Units:** | ng/g |
| **Lab Code:** | K1804200-003 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.29 J** | 1.0 | 0.18 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:29 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.32 J** | 1.0 | 0.23 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.27** J U | 1.0 | 0.19 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 1.0 | 0.21 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 1.0 | 0.16 | 1 | 05/12/18 09:29 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 09:29 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 09:29 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.088 | 1 | 05/12/18 09:29 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 09:29 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 09:29 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 09:29 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 12:15 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-E 043018 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-004 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.25 J** | 0.85 | 0.17 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.85 | 0.14 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **3.6** | 0.85 | 0.17 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 09:39 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.85 | 0.18 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.85 | 0.19 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.85 | 0.21 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.27 J** | 0.85 | 0.22 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.85 | 0.18 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.48** J U | 0.85 | 0.18 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.29** J U | 0.85 | 0.20 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.85 | 0.25 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.85 | 0.26 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.19 J** | 0.85 | 0.15 | 1 | 05/12/18 09:39 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.85 | 0.38 | 1 | 05/12/18 09:39 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.85 | 0.13 | 1 | 05/12/18 09:39 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.85 | 0.085 | 1 | 05/12/18 09:39 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.85 | 0.11 | 1 | 05/12/18 09:39 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 09:39 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.85 | 0.22 | 1 | 05/12/18 09:39 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 12:45 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-E 043018 23-24' | **Units:** | ng/g |
| **Lab Code:** | K1804200-005 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.20 J** | 0.99 | 0.17 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.99 | 0.14 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:49 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.99 | 0.19 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.99 | 0.21 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.22 J** | 0.99 | 0.22 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.24** J U | 0.99 | 0.18 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21** J U | 0.99 | 0.20 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.99 | 0.25 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.99 | 0.26 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.99 | 0.15 | 1 | 05/12/18 09:49 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.99 | 0.38 | 1 | 05/12/18 09:49 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.99 | 0.13 | 1 | 05/12/18 09:49 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.085 | 1 | 05/12/18 09:49 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.11 | 1 | 05/12/18 09:49 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 09:49 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.99 | 0.22 | 1 | 05/12/18 09:49 | 5/11/18 | |


6/20/18

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 14:30 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-16 043018 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-006 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.98 | 0.14 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.72 J** | 0.98 | 0.17 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 10:00 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.98 | 0.18 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.98 | 0.19 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.98 | 0.21 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.23 J** | 0.98 | 0.22 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.98 | 0.18 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.24 J** U | 0.98 | 0.18 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.98 | 0.20 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.98 | 0.25 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.98 | 0.26 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.98 | 0.15 | 1 | 05/12/18 10:00 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.98 | 0.38 | 1 | 05/12/18 10:00 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.98 | 0.13 | 1 | 05/12/18 10:00 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.98 | 0.085 | 1 | 05/12/18 10:00 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.98 | 0.11 | 1 | 05/12/18 10:00 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 10:00 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.98 | 0.22 | 1 | 05/12/18 10:00 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 15:05 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-16 043018 23-24' | **Units:** | ng/g |
| **Lab Code:** | K1804200-007 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.92 | 0.14 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.29 J** | 0.92 | 0.17 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 10:10 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.92 | 0.18 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.92 | 0.19 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.92 | 0.21 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.92 | 0.22 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.92 | 0.18 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.19 J** U | 0.92 | 0.18 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.92 | 0.20 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.92 | 0.25 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.92 | 0.26 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.15 J** | 0.92 | 0.15 | 1 | 05/12/18 10:10 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.92 | 0.38 | 1 | 05/12/18 10:10 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.92 | 0.13 | 1 | 05/12/18 10:10 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.92 | 0.085 | 1 | 05/12/18 10:10 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.92 | 0.11 | 1 | 05/12/18 10:10 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 10:10 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.92 | 0.22 | 1 | 05/12/18 10:10 | 5/11/18 | |


MW 6/20/18

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 04/30/18 15:15 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EQ-Blank 1 | **Units:** | ng/L |
| **Lab Code:** | K1804200-008 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.5 | 0.90 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.5 | 0.94 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.5 | 0.88 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.5 | 1.0 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.5 | 1.3 | 1 | 05/12/18 07:13 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.9 | 2.7 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.5 | 1.1 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.5 | 0.92 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.5 | 1.2 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.8 | 0.46 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.5 | 0.94 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | 0.74 J U | 4.5 | 0.52 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.5 | 0.31 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.5 | 0.46 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.5 | 0.75 | 1 | 05/12/18 07:13 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.5 | 1.2 | 1 | 05/12/18 07:13 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.5 | 0.35 | 1 | 05/12/18 07:13 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 07:13 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.5 | 0.83 | 1 | 05/12/18 07:13 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.5 | 1.2 | 1 | 05/12/18 07:13 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.5 | 0.65 | 1 | 05/12/18 07:13 | 5/8/18 | |


MW 6/20/18

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 09:15 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-C 050118 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-009 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:21 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | **0.48 J** | 1.0 | 0.20 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | **0.51 J** | 1.0 | 0.22 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.51 J** | 1.0 | 0.23 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | **0.23 J** | 1.0 | 0.19 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.32 J U** | 1.0 | 0.19 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.25 J U** | 1.0 | 0.21 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.18 J** | 1.0 | 0.16 | 1 | 05/12/18 10:21 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.40 | 1 | 05/12/18 10:21 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 10:21 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.088 | 1 | 05/12/18 10:21 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 10:21 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:21 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 10:21 | 5/11/18 | |


NW 6/20/18

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 09:45 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-C 050118 29-30' | **Units:** | ng/g |
| **Lab Code:** | K1804200-010 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.19 J** | 1.0 | 0.18 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:31 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.24 J** | 1.0 | 0.23 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.26** J4 | 1.0 | 0.19 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 1.0 | 0.21 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 1.0 | 0.16 | 1 | 05/12/18 10:31 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 10:31 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 10:31 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.087 | 1 | 05/12/18 10:31 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 10:31 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 10:31 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 10:31 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 10:45 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EQ-Blank 2 050118 | **Units:** | ng/L |
| **Lab Code:** | K1804200-011 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.2 | 0.90 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.2 | 0.94 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.2 | 0.88 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.2 | 1.0 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.2 | 1.3 | 1 | 05/12/18 07:23 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.3 | 2.7 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.2 | 1.1 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.2 | 0.92 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.7 | 0.46 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.2 | 0.94 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | **0.55** J U | 4.2 | 0.52 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.2 | 0.31 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.2 | 0.46 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.2 | 0.75 | 1 | 05/12/18 07:23 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:23 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.2 | 0.35 | 1 | 05/12/18 07:23 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 07:23 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.2 | 0.83 | 1 | 05/12/18 07:23 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:23 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.2 | 0.65 | 1 | 05/12/18 07:23 | 5/8/18 | |


MW 6/20/18

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 10:50 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | Field Blank 1 | **Units:** | ng/L |
| **Lab Code:** | K1804200-012 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.3 | 0.90 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.3 | 0.94 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.3 | 0.88 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.3 | 1.0 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.3 | 1.3 | 1 | 05/12/18 07:34 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.6 | 2.7 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.3 | 1.1 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.3 | 0.92 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.7 | 0.46 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.3 | 0.94 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | **0.69** J4 | 4.3 | 0.52 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.3 | 0.31 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.3 | 0.46 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.3 | 0.75 | 1 | 05/12/18 07:34 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:34 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.3 | 0.35 | 1 | 05/12/18 07:34 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 07:34 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.3 | 0.83 | 1 | 05/12/18 07:34 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:34 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.3 | 0.65 | 1 | 05/12/18 07:34 | 5/8/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 12:40 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-1 050118 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-013 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.94 | 0.14 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **10** | 0.94 | 0.17 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 10:42 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.94 | 0.18 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.94 | 0.19 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.94 | 0.21 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.24 J** | 0.94 | 0.22 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.94 | 0.18 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.55** J U | 0.94 | 0.18 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.27** J U | 0.94 | 0.20 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.94 | 0.25 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.94 | 0.26 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.94 | 0.15 | 1 | 05/12/18 10:42 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.94 | 0.38 | 1 | 05/12/18 10:42 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.94 | 0.13 | 1 | 05/12/18 10:42 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.94 | 0.085 | 1 | 05/12/18 10:42 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.94 | 0.11 | 1 | 05/12/18 10:42 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 10:42 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.94 | 0.22 | 1 | 05/12/18 10:42 | 5/11/18 | |

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Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 13:15 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-1 050118 32-33' | **Units:** | ng/g |
| **Lab Code:** | K1804200-014 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.84 | 0.17 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.20 J** | 0.84 | 0.17 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.84 | 0.14 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.19 J** | 0.84 | 0.17 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.84 | 0.17 | 1 | 05/12/18 10:52 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.84 | 0.18 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.84 | 0.19 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.84 | 0.21 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.84 | 0.22 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.84 | 0.18 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.25 J** U | 0.84 | 0.18 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21 J** U | 0.84 | 0.20 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.84 | 0.25 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.84 | 0.26 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.84 | 0.15 | 1 | 05/12/18 10:52 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.84 | 0.38 | 1 | 05/12/18 10:52 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.84 | 0.13 | 1 | 05/12/18 10:52 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.84 | 0.085 | 1 | 05/12/18 10:52 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.84 | 0.11 | 1 | 05/12/18 10:52 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.84 | 0.17 | 1 | 05/12/18 10:52 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.84 | 0.22 | 1 | 05/12/18 10:52 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | DUP-1 | **Units:** | ng/g |
| **Lab Code:** | K1804200-015 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.92 | 0.14 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **15** | 0.92 | 0.17 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 11:03 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.92 | 0.18 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.92 | 0.19 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.92 | 0.21 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.25 J** | 0.92 | 0.22 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.92 | 0.18 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.47** J U | 0.92 | 0.18 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.24** J U | 0.92 | 0.20 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.92 | 0.25 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.92 | 0.26 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.92 | 0.15 | 1 | 05/12/18 11:03 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.92 | 0.38 | 1 | 05/12/18 11:03 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.92 | 0.13 | 1 | 05/12/18 11:03 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.92 | 0.085 | 1 | 05/12/18 11:03 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.92 | 0.11 | 1 | 05/12/18 11:03 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.92 | 0.17 | 1 | 05/12/18 11:03 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.92 | 0.22 | 1 | 05/12/18 11:03 | 5/11/18 | |


NV 6/20/18

Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | DUP-2 | **Units:** | ng/g |
| **Lab Code:** | K1804200-016 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.37 J** | 0.94 | 0.17 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.94 | 0.14 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.35 J** | 0.94 | 0.17 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 11:13 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.94 | 0.18 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.94 | 0.19 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.94 | 0.21 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.25 J** | 0.94 | 0.22 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.94 | 0.18 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.24 Jn** | 0.94 | 0.18 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21 Jn** | 0.94 | 0.20 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.94 | 0.25 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.94 | 0.26 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.94 | 0.15 | 1 | 05/12/18 11:13 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.94 | 0.38 | 1 | 05/12/18 11:13 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.94 | 0.13 | 1 | 05/12/18 11:13 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.94 | 0.085 | 1 | 05/12/18 11:13 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.94 | 0.11 | 1 | 05/12/18 11:13 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.94 | 0.17 | 1 | 05/12/18 11:13 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.94 | 0.22 | 1 | 05/12/18 11:13 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 14:15 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-10 050118 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-017 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.64 J** | 1.0 | 0.18 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 11:24 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 1.0 | 0.23 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.24** J U | 1.0 | 0.19 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21** J U | 1.0 | 0.21 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 1.0 | 0.16 | 1 | 05/12/18 11:24 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 11:24 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 11:24 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.086 | 1 | 05/12/18 11:24 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 11:24 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 11:24 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 11:24 | 5/11/18 | |

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/01/18 15:00 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-10 050118 33-34' | **Units:** | ng/g |
| **Lab Code:** | K1804200-018 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.90 | 0.17 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.90 | 0.17 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.90 | 0.14 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.90 | 0.17 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.90 | 0.17 | 1 | 05/12/18 11:34 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.90 | 0.18 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.90 | 0.19 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.90 | 0.21 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.90 | 0.22 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.90 | 0.18 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 0.90 | 0.18 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21** J U | 0.90 | 0.20 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.90 | 0.25 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.90 | 0.26 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.90 | 0.15 | 1 | 05/12/18 11:34 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.90 | 0.38 | 1 | 05/12/18 11:34 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.90 | 0.13 | 1 | 05/12/18 11:34 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.90 | 0.085 | 1 | 05/12/18 11:34 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.90 | 0.11 | 1 | 05/12/18 11:34 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.90 | 0.17 | 1 | 05/12/18 11:34 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.90 | 0.22 | 1 | 05/12/18 11:34 | 5/11/18 | |


6/20/18

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 08:40 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A 050218 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-019 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.91 | 0.14 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 11:44 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.91 | 0.19 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.91 | 0.21 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.91 | 0.22 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.29** J U | 0.91 | 0.18 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.23** J U | 0.91 | 0.20 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.91 | 0.25 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.91 | 0.26 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.19** J | 0.91 | 0.15 | 1 | 05/12/18 11:44 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.91 | 0.38 | 1 | 05/12/18 11:44 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.91 | 0.13 | 1 | 05/12/18 11:44 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.085 | 1 | 05/12/18 11:44 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.11 | 1 | 05/12/18 11:44 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 11:44 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.91 | 0.22 | 1 | 05/12/18 11:44 | 5/11/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 09:00 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A 050218 22-23' | **Units:** | ng/g |
| **Lab Code:** | K1804200-020 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.83 | 0.17 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.83 | 0.17 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.83 | 0.14 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.83 | 0.17 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.83 | 0.17 | 1 | 05/12/18 11:55 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.83 | 0.18 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.83 | 0.19 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.83 | 0.21 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.83 | 0.22 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.83 | 0.18 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 0.83 | 0.18 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.83 | 0.20 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.83 | 0.25 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.83 | 0.26 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.20 J** | 0.83 | 0.15 | 1 | 05/12/18 11:55 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.83 | 0.38 | 1 | 05/12/18 11:55 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.83 | 0.13 | 1 | 05/12/18 11:55 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.83 | 0.085 | 1 | 05/12/18 11:55 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.83 | 0.11 | 1 | 05/12/18 11:55 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.83 | 0.17 | 1 | 05/12/18 11:55 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.83 | 0.22 | 1 | 05/12/18 11:55 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 09:40 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A1 050218 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-021 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.91 | 0.14 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.34 J** | 0.91 | 0.17 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 12:05 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.91 | 0.19 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.91 | 0.21 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.25 J** | 0.91 | 0.22 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.24 J** U | 0.91 | 0.18 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.91 | 0.20 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.91 | 0.25 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.91 | 0.26 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.16 J** | 0.91 | 0.15 | 1 | 05/12/18 12:05 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.91 | 0.38 | 1 | 05/12/18 12:05 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.91 | 0.13 | 1 | 05/12/18 12:05 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.085 | 1 | 05/12/18 12:05 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.11 | 1 | 05/12/18 12:05 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 12:05 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.91 | 0.22 | 1 | 05/12/18 12:05 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 10:00 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A1 050218 23-24' | **Units:** | ng/g |
| **Lab Code:** | K1804200-022 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND UJ | 0.99 | 0.17 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.99 | 0.14 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 12:16 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.99 | 0.19 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.99 | 0.21 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.99 | 0.22 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.99 | 0.18 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.25** J U | 0.99 | 0.18 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.99 | 0.20 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.99 | 0.25 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.99 | 0.26 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.17** J | 0.99 | 0.15 | 1 | 05/12/18 12:16 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.99 | 0.38 | 1 | 05/12/18 12:16 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.99 | 0.13 | 1 | 05/12/18 12:16 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.085 | 1 | 05/12/18 12:16 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.99 | 0.11 | 1 | 05/12/18 12:16 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.99 | 0.17 | 1 | 05/12/18 12:16 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.99 | 0.22 | 1 | 05/12/18 12:16 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 10:30 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A3 050218 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-023 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.81 | 0.17 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.81 | 0.17 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.81 | 0.14 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.81 | 0.17 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.81 | 0.17 | 1 | 05/12/18 12:47 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.81 | 0.18 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.81 | 0.19 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.81 | 0.21 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.81 | 0.22 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.81 | 0.18 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.21** J U | 0.81 | 0.18 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.25** J U | 0.81 | 0.20 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.81 | 0.25 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.81 | 0.26 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.81 | 0.15 | 1 | 05/12/18 12:47 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.81 | 0.38 | 1 | 05/12/18 12:47 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.81 | 0.13 | 1 | 05/12/18 12:47 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.81 | 0.085 | 1 | 05/12/18 12:47 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.81 | 0.11 | 1 | 05/12/18 12:47 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.81 | 0.17 | 1 | 05/12/18 12:47 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.81 | 0.22 | 1 | 05/12/18 12:47 | 5/11/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 10:55 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A3 050218 22-23' | **Units:** | ng/g |
| **Lab Code:** | K1804200-024 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.91 | 0.14 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 13:39 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.91 | 0.19 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.91 | 0.21 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.91 | 0.22 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.23** J U | 0.91 | 0.18 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.25** J U | 0.91 | 0.20 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.91 | 0.25 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.91 | 0.26 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.17 J** | 0.91 | 0.15 | 1 | 05/12/18 13:39 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.91 | 0.38 | 1 | 05/12/18 13:39 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.91 | 0.13 | 1 | 05/12/18 13:39 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.085 | 1 | 05/12/18 13:39 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.11 | 1 | 05/12/18 13:39 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 13:39 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.91 | 0.22 | 1 | 05/12/18 13:39 | 5/11/18 | |


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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 11:20 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A2 050218 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-025 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.85 | 0.14 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 14:11 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.85 | 0.18 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.85 | 0.19 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.85 | 0.21 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.85 | 0.22 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.85 | 0.18 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.18** J U | 0.85 | 0.18 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.85 | 0.20 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.85 | 0.25 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.85 | 0.26 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.85 | 0.15 | 1 | 05/12/18 14:11 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.85 | 0.38 | 1 | 05/12/18 14:11 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.85 | 0.13 | 1 | 05/12/18 14:11 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.85 | 0.085 | 1 | 05/12/18 14:11 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.85 | 0.11 | 1 | 05/12/18 14:11 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.85 | 0.17 | 1 | 05/12/18 14:11 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.85 | 0.22 | 1 | 05/12/18 14:11 | 5/11/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 11:45 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-A2 050218 23-24' | **Units:** | ng/g |
| **Lab Code:** | K1804200-026 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.95 | 0.17 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.95 | 0.17 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.95 | 0.14 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.95 | 0.17 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.95 | 0.17 | 1 | 05/12/18 14:21 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.95 | 0.18 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.95 | 0.19 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.95 | 0.21 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.95 | 0.22 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.95 | 0.18 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.23** J U | 0.95 | 0.18 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21** J U | 0.95 | 0.20 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.95 | 0.25 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.95 | 0.26 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.95 | 0.15 | 1 | 05/12/18 14:21 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.95 | 0.38 | 1 | 05/12/18 14:21 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.95 | 0.13 | 1 | 05/12/18 14:21 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.95 | 0.085 | 1 | 05/12/18 14:21 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.95 | 0.11 | 1 | 05/12/18 14:21 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.95 | 0.17 | 1 | 05/12/18 14:21 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.95 | 0.22 | 1 | 05/12/18 14:21 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/02/18 14:10 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EQ-Blank 3 050218 | **Units:** | ng/L |
| **Lab Code:** | K1804200-027 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.3 | 0.90 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.3 | 0.94 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.3 | 0.88 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.3 | 1.0 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.3 | 1.3 | 1 | 05/12/18 07:44 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.6 | 2.7 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.3 | 1.1 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.3 | 0.92 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.7 | 0.46 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.3 | 0.94 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | **0.54** J U | 4.3 | 0.52 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.3 | 0.31 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.3 | 0.46 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.3 | 0.75 | 1 | 05/12/18 07:44 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:44 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.3 | 0.35 | 1 | 05/12/18 07:44 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 07:44 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.3 | 0.83 | 1 | 05/12/18 07:44 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.3 | 1.2 | 1 | 05/12/18 07:44 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.3 | 0.65 | 1 | 05/12/18 07:44 | 5/8/18 | |


MW 6/20/18

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 10:05 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | Field Blank 2 | **Units:** | ng/L |
| **Lab Code:** | K1804200-028 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.2 | 0.90 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.2 | 0.94 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.2 | 0.88 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.2 | 1.0 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.2 | 1.3 | 1 | 05/12/18 07:55 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.3 | 2.7 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.2 | 1.1 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.2 | 0.92 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.7 | 0.46 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.2 | 0.94 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 4.2 | 0.52 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.2 | 0.31 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.2 | 0.46 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.2 | 0.75 | 1 | 05/12/18 07:55 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:55 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.2 | 0.35 | 1 | 05/12/18 07:55 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 07:55 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.2 | 0.83 | 1 | 05/12/18 07:55 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.2 | 1.2 | 1 | 05/12/18 07:55 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.2 | 0.65 | 1 | 05/12/18 07:55 | 5/8/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 10:05 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EQ-Blank 4 050318 | **Units:** | ng/L |
| **Lab Code:** | K1804200-029 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.3 | 0.90 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 4.3 | 0.94 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.3 | 0.88 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.3 | 1.0 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.3 | 1.3 | 1 | 05/12/18 08:05 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.6 | 2.7 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.3 | 1.1 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.3 | 0.92 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.7 | 0.46 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.3 | 0.94 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | **0.68** J U | 4.3 | 0.52 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.3 | 0.31 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.3 | 0.46 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.3 | 0.75 | 1 | 05/12/18 08:05 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.3 | 1.2 | 1 | 05/12/18 08:05 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.3 | 0.35 | 1 | 05/12/18 08:05 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 08:05 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.3 | 0.83 | 1 | 05/12/18 08:05 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.3 | 1.2 | 1 | 05/12/18 08:05 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.3 | 0.65 | 1 | 05/12/18 08:05 | 5/8/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 11:20 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-18 050318 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-030 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.98 | 0.14 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.54 J** | 0.98 | 0.17 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 14:31 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.98 | 0.18 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.98 | 0.19 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.98 | 0.21 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.26 J** U | 0.98 | 0.22 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.98 | 0.18 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.29 J** U | 0.98 | 0.18 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21 J** U | 0.98 | 0.20 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.98 | 0.25 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.98 | 0.26 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.16 J** | 0.98 | 0.15 | 1 | 05/12/18 14:31 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.98 | 0.38 | 1 | 05/12/18 14:31 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.98 | 0.13 | 1 | 05/12/18 14:31 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.98 | 0.085 | 1 | 05/12/18 14:31 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.98 | 0.11 | 1 | 05/12/18 14:31 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.98 | 0.17 | 1 | 05/12/18 14:31 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.98 | 0.22 | 1 | 05/12/18 14:31 | 5/11/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 12:23 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-18 050318 41-42' | **Units:** | ng/g |
| **Lab Code:** | K1804200-031 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.93 | 0.17 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.19 J** | 0.93 | 0.17 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.93 | 0.14 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.93 | 0.17 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.93 | 0.17 | 1 | 05/12/18 14:42 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.93 | 0.18 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.93 | 0.19 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.93 | 0.21 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.93 | 0.22 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.93 | 0.18 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.25 J** U | 0.93 | 0.18 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.22 J** U | 0.93 | 0.20 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.93 | 0.25 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.93 | 0.26 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.93 | 0.15 | 1 | 05/12/18 14:42 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.93 | 0.38 | 1 | 05/12/18 14:42 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.93 | 0.13 | 1 | 05/12/18 14:42 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.93 | 0.085 | 1 | 05/12/18 14:42 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.93 | 0.11 | 1 | 05/12/18 14:42 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.93 | 0.17 | 1 | 05/12/18 14:42 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.93 | 0.22 | 1 | 05/12/18 14:42 | 5/11/18 | |


MW 6/20/18

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 14:00 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-19B 050318 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-032 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.28 J** | 1.0 | 0.18 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.22 J** | 1.0 | 0.18 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 14:52 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.30 J** U | 1.0 | 0.23 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | **0.42 J** | 1.0 | 0.19 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.25 J** U | 1.0 | 0.19 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.22 J** U | 1.0 | 0.21 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.16 J** | 1.0 | 0.16 | 1 | 05/12/18 14:52 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 14:52 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 14:52 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.087 | 1 | 05/12/18 14:52 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 14:52 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 14:52 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 14:52 | 5/11/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/03/18 14:50 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-19B 050318 36-37' | **Units:** | ng/g |
| **Lab Code:** | K1804200-033 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.97 | 0.17 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.17 J** | 0.97 | 0.17 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.97 | 0.14 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 0.97 | 0.17 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.97 | 0.17 | 1 | 05/12/18 15:03 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.97 | 0.18 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.97 | 0.19 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.97 | 0.21 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.97 | 0.22 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.97 | 0.18 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 0.97 | 0.18 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 0.97 | 0.20 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.97 | 0.25 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.97 | 0.26 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.20 J** | 0.97 | 0.15 | 1 | 05/12/18 15:03 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.97 | 0.38 | 1 | 05/12/18 15:03 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.97 | 0.13 | 1 | 05/12/18 15:03 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.97 | 0.085 | 1 | 05/12/18 15:03 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.97 | 0.11 | 1 | 05/12/18 15:03 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.97 | 0.17 | 1 | 05/12/18 15:03 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.97 | 0.22 | 1 | 05/12/18 15:03 | 5/11/18 | |

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**dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/04/18 10:00 |
| **Sample Matrix:** | Water | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EQ-Blank 5 050418 | **Units:** | ng/L |
| **Lab Code:** | K1804200-034 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 4.5 | 0.90 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.96 J** | 4.5 | 0.94 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 4.5 | 0.88 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 4.5 | 1.0 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 4.5 | 1.3 | 1 | 05/12/18 08:16 | 5/8/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 8.9 | 2.7 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 4.5 | 1.1 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 4.5 | 0.92 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 4.5 | 1.2 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.8 | 0.46 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorononanoic acid (PFNA) | ND U | 4.5 | 0.94 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorodecanoic acid (PFDA) | **0.55** J U | 4.5 | 0.52 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 4.5 | 0.31 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 4.5 | 0.46 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 4.5 | 0.75 | 1 | 05/12/18 08:16 | 5/8/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 4.5 | 1.2 | 1 | 05/12/18 08:16 | 5/8/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 4.5 | 0.35 | 1 | 05/12/18 08:16 | 5/8/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 8.0 | 4.2 | 1 | 05/12/18 08:16 | 5/8/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 4.5 | 0.83 | 1 | 05/12/18 08:16 | 5/8/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 4.5 | 1.2 | 1 | 05/12/18 08:16 | 5/8/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 4.5 | 0.65 | 1 | 05/12/18 08:16 | 5/8/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/04/18 09:15 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-19A 050418 0-1' | **Units:** | ng/g |
| **Lab Code:** | K1804200-035 | **Basis:** | Dry |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 0.91 | 0.14 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **3.9** | 0.91 | 0.17 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 15:13 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 0.91 | 0.19 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 0.91 | 0.21 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | ND U | 0.91 | 0.22 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 0.91 | 0.18 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.49** J U | 0.91 | 0.18 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | **0.21** J U | 0.91 | 0.20 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 0.91 | 0.25 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 0.91 | 0.26 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 0.91 | 0.15 | 1 | 05/12/18 15:13 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 0.91 | 0.38 | 1 | 05/12/18 15:13 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 0.91 | 0.13 | 1 | 05/12/18 15:13 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.085 | 1 | 05/12/18 15:13 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 0.91 | 0.11 | 1 | 05/12/18 15:13 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 0.91 | 0.17 | 1 | 05/12/18 15:13 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 0.91 | 0.22 | 1 | 05/12/18 15:13 | 5/11/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804200 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/04/18 09:55 |
| **Sample Matrix:** | Soil | **Date Received:** | 05/05/18 09:00 |
| **Sample Name:** | EH-19A 050418 31-32' | **Units:** | ng/g |
| **Lab Code:** | K1804200-036 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | ND U | 1.0 | 0.15 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorooctane sulfonic acid (PFOS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorodecane sulfonic acid (PFDS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 15:24 | 5/11/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluoropentanoic acid (PFPeA) | ND U | 1.0 | 0.20 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorohexanoic acid (PFHxA) | ND U | 1.0 | 0.22 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluoroheptanoic acid (PFHpA) | **0.29** J U | 1.0 | 0.23 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorooctanoic acid (PFOA) | ND U | 1.0 | 0.19 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorononanoic acid (PFNA) | **0.22** J U | 1.0 | 0.19 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorodecanoic acid (PFDA) | ND U | 1.0 | 0.21 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluoroundecanoic acid (PFUnDA) | ND U | 1.0 | 0.26 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorododecanoic acid (PFDoDA) | ND U | 1.0 | 0.27 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorotridecanoic acid (PFTrDA) | ND U | 1.0 | 0.16 | 1 | 05/12/18 15:24 | 5/11/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | ND U | 1.0 | 0.39 | 1 | 05/12/18 15:24 | 5/11/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | ND U | 1.0 | 0.14 | 1 | 05/12/18 15:24 | 5/11/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.087 | 1 | 05/12/18 15:24 | 5/11/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | ND U | 1.0 | 0.12 | 1 | 05/12/18 15:24 | 5/11/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | ND U | 1.0 | 0.18 | 1 | 05/12/18 15:24 | 5/11/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | ND U | 1.0 | 0.23 | 1 | 05/12/18 15:24 | 5/11/18 | |

ENVIRONMENTAL
Data Services, Inc.

# DATA USABILITY SUMMARY REPORT
# EAST HAMPTON AIRPORT, WAINSCOTT, NEW YORK

Client: AECOM Technical Services, Inc., Latham, New York
SDG: K1804416
Laboratory: ALS Environmental, Kelso, Washington
Site: East Hampton Airport, Wainscott, New York
Date: June 20, 2018

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 1 | EH-B 050718 | K1804416-001 | Water |
| 2 | EH-E 050718 | K1804416-002 | Water |
| 3 | EQUIPMENT BLANK 050718 | K1804416-003 | Water |
| 4 | FIELD BLANK 050718 | K1804416-004 | Water |
| 5 | EH-16 050718 | K1804416-005 | Water |
| 6 | EH-C 050718 | K1804416-006 | Water |
| 7 | P-3 050818 | K1804416-007 | Water |
| 8 | MW-10 050818 | K1804416-008 | Water |
| 9 | FIELD BLANK 050818 | K1804416-009 | Water |
| 10 | EQUIPMENT BLANK 050818 | K1804416-010 | Water |
| 11 | DUP 050818 | K1804416-011 | Water |
| 12 | EH-1 050818 | K1804416-012 | Water |
| 13 | EH-19B 050818 | K1804416-013 | Water |
| 14 | EH-A 050818 | K1804416-014 | Water |
| 14MS | EH-A 050818MS | K1804416-014MS | Water |
| 14MSD | EH-A 050818MSD | K1804416-014MSD | Water |
| 15 | EH-19A 050818 | K1804416-015 | Water |
| 16 | EH-P2 050818 | K1804416-016 | Water |
| 17 | EH-P1 050818 | K1804416-017 | Water |
| 18 | EH-10 050818 | K1804416-018 | Water |
| 19 | EH-18 050918 | K1804416-019 | Water |
| 20 | EQUIPMENT BLANK 050918 | K1804416-020 | Water |
| 21* | FIELD BLANK 050918 | K1804416-021 | Water |
| 22 | CATCH BASIN 1 050918 | K1804416-022 | Water |

* - Not analyzed

A Data Usability Summary Review was performed on the analytical data for sixteen water samples, two aqueous field blank samples, and three aqueous equipment blank samples collected on May 7-9, 2018 by AECOM at the East Hampton Airport site in Wainscott, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| PFCs | USEPA Method 537 Modified |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

## Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the following deficiencies.

- n-Methylperfluorooctane sulfonamidoacetic acid was qualified as estimated in all samples due to a high continuing calibration %D value.
- Several compounds were qualified as nondetected in several samples due to method blank contamination.
- PFNA was qualified as nondetected in three samples due to field blank contamination.
- All results were qualified as estimated in one sample due to low surrogate recoveries.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

## Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

## Perfluorinated Compounds (PFCs)

### Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

### LC/MS Tuning

- All criteria were met.

### Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

### Continuing Calibration

- All percent difference (%D) and RRF criteria were met except for the following.

| CCAL Date | Compound | %D | Qualifier |
|---|---|---|---|
| 5/18/2018 | n-Methylperfluorooctane Sulfonamidoacetic Acid | 31.5% | UJ - All Samples |

### Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1806484-04 | PFDA | 0.87 | U | 1-2, 4-10 |
| | PFUnDA | 1.1 | U | 1-10 |
| | PFDoDA | 0.81 | U | 1-8, 10 |
| KQ1806781-04 | PFHpA | 1.4 | U | 14, 16-17, 22 |
| | PFNA | 1.1 | U | 12, 14-17, 22 |
| | PFDA | 0.84 | U | 11-16, 18-20, 22 |
| | PFUnDA | 1.0 | U | 11-16, 18-20, 22 |
| | PFDoDA | 0.95 | U | 11-16, 18-20, 22 |
| | PFTrDA | 0.79 | U | 11-16, 18-19, 22 |

## Field QC Blank

- Field QC samples were free of contamination.

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| EQUIPMENT BLANK 050718 | None - ND | - | - | - |
| FIELD BLANK 050718 | PFNA | 1.0 | U | 2, 5-6 |
| EQUIPMENT BLANK 050818 | None - ND | - | - | - |
| FIELD BLANK 050818 | None - ND | - | - | - |
| EQUIPMENT BLANK 050918 | None - ND | - | - | - |

## Surrogate Spike Recoveries

- EDS Sample ID #17 exhibited low surrogate recoveries for 17 out of the 18 surrogates. All results for this sample were qualified (J/UJ).

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable %R and RPD values.

## Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Target Compound Identification

- All mass spectra and quantitation criteria were met.

## Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| PFCs | | | | |
|---|---|---|---|---|
| Compound | MW-10 050818 ng/L | DUP 050818 ng/L | RPD | Qualifier |
| PFOS | 1.4 | 1.3 | 7% | None |

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/20/18

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 13:15 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-B 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-001 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **42** | | 4.4 | 0.90 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **130** | | 4.4 | 0.94 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 | U | 4.4 | 0.88 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.1** | **J** | 1.9 | 1.0 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.4 | 1.3 | 1 | 05/18/18 22:16 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **37** | | 8.8 | 2.7 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | **120** | | 4.4 | 1.1 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | **150** | | 4.4 | 0.92 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | **8.9** | | 4.4 | 1.2 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | **0.81** | **J** | 1.8 | 0.46 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 | U | 4.4 | 0.94 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.92** | J U | 4.4 | 0.52 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.6** | J U | 4.4 | 0.31 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.76** | J U | 4.4 | 0.46 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.83** | **J** | 4.4 | 0.75 | 1 | 05/18/18 22:16 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.4 | 1.2 | 1 | 05/18/18 22:16 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.4 | 0.35 | 1 | 05/18/18 22:16 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | U UJ | 8.0 | 4.2 | 1 | 05/18/18 22:16 | 5/17/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.4 | 0.83 | 1 | 05/18/18 22:16 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.4 | 1.2 | 1 | 05/18/18 22:16 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.4 | 0.65 | 1 | 05/18/18 22:16 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 14:00 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-E 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-002 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **4.9** | 4.2 | 0.90 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **52** | 4.2 | 0.94 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **16** | 1.9 | 1.0 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/18/18 22:27 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **5.6 J** | 8.5 | 2.7 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | **17** | 4.2 | 1.1 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | **17** | 4.2 | 0.92 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.2 J** | 4.2 | 1.2 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | **1.7** | 1.7 | 0.46 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | **1.7** ~~J~~ U | 4.2 | 0.94 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **1.6** ~~J~~ U | 4.2 | 0.52 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1** ~~J~~ U | 4.2 | 0.31 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.87** ~~J~~ U | 4.2 | 0.46 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.82 J** | 4.2 | 0.75 | 1 | 05/18/18 22:27 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 22:27 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/18/18 22:27 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~J~~ UJ | 8.0 | 4.2 | 1 | 05/18/18 22:27 | 5/17/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/18/18 22:27 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 22:27 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/18/18 22:27 | 5/17/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 14:30 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Equipment Blank 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-003 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.4 | 0.90 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.4 | 0.94 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.4 | 0.88 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.4 | 1.3 | 1 | 05/18/18 22:37 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.8 | 2.7 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.4 | 1.1 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.4 | 0.92 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.8 | 0.46 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.4 | 0.94 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.4 | 0.52 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.85** J U | 4.4 | 0.31 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.55** J U | 4.4 | 0.46 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.4 | 0.75 | 1 | 05/18/18 22:37 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:37 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.4 | 0.35 | 1 | 05/18/18 22:37 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U J | 8.0 | 4.2 | 1 | 05/18/18 22:37 | 5/17/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.4 | 0.83 | 1 | 05/18/18 22:37 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:37 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.4 | 0.65 | 1 | 05/18/18 22:37 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 14:40 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Field Blank 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-004 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.4 | 0.90 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.4 | 0.94 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.4 | 0.88 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.4 | 1.3 | 1 | 05/18/18 22:48 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.8 | 2.7 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.4 | 1.1 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.4 | 0.92 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.8 | 0.46 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | **1.0 J** | 4.4 | 0.94 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.71** J U | 4.4 | 0.52 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.94** J U | 4.4 | 0.31 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.75** J U | 4.4 | 0.46 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.4 | 0.75 | 1 | 05/18/18 22:48 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:48 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.4 | 0.35 | 1 | 05/18/18 22:48 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/18/18 22:48 | 5/17/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.4 | 0.83 | 1 | 05/18/18 22:48 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 22:48 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.4 | 0.65 | 1 | 05/18/18 22:48 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 15:02 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-16 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-005 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **2.1 J** | 4.2 | 0.94 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **40** | 1.9 | 1.0 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/18/18 22:58 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **5.4 J** | 8.5 | 2.7 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | **2.0 J** | 4.2 | 0.92 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.1 J** | 4.2 | 1.2 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | **1.7 J** | 1.7 | 0.46 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | **1.5 J** U | 4.2 | 0.94 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **1.0 J** U | 4.2 | 0.52 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.8 J** U | 4.2 | 0.31 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **1.4 J** U | 4.2 | 0.46 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.94 J** | 4.2 | 0.75 | 1 | 05/18/18 22:58 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 22:58 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/18/18 22:58 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 UJ | 8.0 | 4.2 | 1 | 05/18/18 22:58 | 5/17/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/18/18 22:58 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 22:58 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/18/18 22:58 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/07/18 16:05 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-C 050718 | **Units:** | ng/L |
| **Lab Code:** | K1804416-006 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.4 | 0.90 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.4 | 0.94 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.4 | 0.88 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.4 | 1.3 | 1 | 05/18/18 23:09 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.8 | 2.7 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.4 | 1.1 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.4 | 0.92 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.3 J** | 4.4 | 1.2 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.8 | 0.46 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | **0.99** ✗U | 4.4 | 0.94 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **1.1** ✗U | 4.4 | 0.52 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1** ✗U | 4.4 | 0.31 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.78** ✗U | 4.4 | 0.46 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.2 J** | 4.4 | 0.75 | 1 | 05/18/18 23:09 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 23:09 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.4 | 0.35 | 1 | 05/18/18 23:09 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ✗UJ | 8.0 | 4.2 | 1 | 05/18/18 23:09 | 5/17/18 | ✗ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.4 | 0.83 | 1 | 05/18/18 23:09 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 23:09 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.4 | 0.65 | 1 | 05/18/18 23:09 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 08:54 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | P-3 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-007 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.4 | 0.90 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.0 J** | 4.4 | 0.94 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.4 | 0.88 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.4 | 1.3 | 1 | 05/18/18 23:19 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.8 | 2.7 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.4 | 1.1 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.4 | 0.92 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.8 | 0.46 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | **1.1 J** | 4.4 | 0.94 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.93** J U | 4.4 | 0.52 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1** J U | 4.4 | 0.31 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.87** J U | 4.4 | 0.46 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.3 J** | 4.4 | 0.75 | 1 | 05/18/18 23:19 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 23:19 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.4 | 0.35 | 1 | 05/18/18 23:19 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/18/18 23:19 | 5/17/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.4 | 0.83 | 1 | 05/18/18 23:19 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.4 | 1.2 | 1 | 05/18/18 23:19 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.4 | 0.65 | 1 | 05/18/18 23:19 | 5/17/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 09:42 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | MW-10 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-008 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** | 1.9 | 1.0 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/18/18 23:30 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.5 | 2.7 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.67** J U | 4.2 | 0.52 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.0** J U | 4.2 | 0.31 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.89** J U | 4.2 | 0.46 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 05/18/18 23:30 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:30 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/18/18 23:30 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/18/18 23:30 | 5/17/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/18/18 23:30 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:30 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/18/18 23:30 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 09:15 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Field Blank 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-009 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/18/18 23:40 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.5 | 2.7 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.52** J U | 4.2 | 0.52 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.87** J U | 4.2 | 0.31 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.2 | 0.46 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 05/18/18 23:40 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:40 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/18/18 23:40 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/18/18 23:40 | 5/17/18 | f |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/18/18 23:40 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/18/18 23:40 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/18/18 23:40 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 09:35 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Equipment Blank 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-010 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.0 | 0.90 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.0 | 0.94 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.0 | 0.88 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.0 | 1.3 | 1 | 05/18/18 23:50 | 5/17/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.0 | 2.7 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.0 | 1.1 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.0 | 0.92 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.0 | 1.2 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.0 | 0.94 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorodecanoic acid (PFDA) | **0.73** J U | 4.0 | 0.52 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.90** J U | 4.0 | 0.31 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.80** J U | 4.0 | 0.46 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.0 | 0.75 | 1 | 05/18/18 23:50 | 5/17/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.0 | 1.2 | 1 | 05/18/18 23:50 | 5/17/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.0 | 0.35 | 1 | 05/18/18 23:50 | 5/17/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/18/18 23:50 | 5/17/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.0 | 0.83 | 1 | 05/18/18 23:50 | 5/17/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.0 | 1.2 | 1 | 05/18/18 23:50 | 5/17/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.0 | 0.65 | 1 | 05/18/18 23:50 | 5/17/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | DUP 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-011 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.1 | 0.90 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.1 | 0.94 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.1 | 0.88 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.3 J** | 1.9 | 1.0 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.1 | 1.3 | 1 | 05/23/18 10:35 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.2 | 2.7 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.1 | 1.1 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.1 | 0.92 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.1 | 1.2 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.1 | 0.94 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **0.82 J U** | 4.1 | 0.52 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.0 J U** | 4.1 | 0.31 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.58 J U** | 4.1 | 0.46 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.78 J U** | 4.1 | 0.75 | 1 | 05/23/18 10:35 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.1 | 1.2 | 1 | 05/23/18 10:35 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.1 | 0.35 | 1 | 05/23/18 10:35 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J UJ | 8.0 | 4.2 | 1 | 05/23/18 10:35 | 5/22/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.1 | 0.83 | 1 | 05/23/18 10:35 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.1 | 1.2 | 1 | 05/23/18 10:35 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.1 | 0.65 | 1 | 05/23/18 10:35 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 10:25 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-1 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-012 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **8.3** | | 4.2 | 0.90 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **730** | | 83 | 19 | 20 | 06/01/18 01:59 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **36** | | 4.2 | 0.88 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.8** | J | 1.9 | 1.0 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.2 | 1.3 | 1 | 05/23/18 10:46 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **37** | | 8.3 | 2.7 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **76** | | 4.2 | 1.1 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **65** | | 4.2 | 0.92 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **40** | | 4.2 | 1.2 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | **160** | | 1.7 | 0.46 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **1.2** | J U | 4.2 | 0.94 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **0.82** | J U | 4.2 | 0.52 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.4** | J U | 4.2 | 0.31 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **1.2** | J U | 4.2 | 0.46 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **0.90** | J U | 4.2 | 0.75 | 1 | 05/23/18 10:46 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.2 | 1.2 | 1 | 05/23/18 10:46 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.2 | 0.35 | 1 | 05/23/18 10:46 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | J UJ | 8.0 | 4.2 | 1 | 05/23/18 10:46 | 5/22/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.2 | 0.83 | 1 | 05/23/18 10:46 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **7.0** | | 4.2 | 1.2 | 1 | 05/23/18 10:46 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.2 | 0.65 | 1 | 05/23/18 10:46 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 11:46 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-19B 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-013 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **29** | 4.2 | 0.90 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **750** | 83 | 19 | 20 | 06/01/18 02:10 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **12** | 4.2 | 0.88 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **77** | 1.9 | 1.0 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 10:56 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **61** | 8.3 | 2.7 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **170** | 4.2 | 1.1 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **200** | 4.2 | 0.92 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **180** | 4.2 | 1.2 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | **89** | 1.7 | 0.46 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **14** | 4.2 | 0.94 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **2.3** ✗ U | 4.2 | 0.52 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **2.2** ✗ U | 4.2 | 0.31 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.63** ✗ U | 4.2 | 0.46 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.2** ✗ U | 4.2 | 0.75 | 1 | 05/23/18 10:56 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 10:56 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/23/18 10:56 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ✗ U J | 8.0 | 4.2 | 1 | 05/23/18 10:56 | 5/22/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/23/18 10:56 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **120** | 4.2 | 1.2 | 1 | 05/23/18 10:56 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | **14** | 4.2 | 0.65 | 1 | 05/23/18 10:56 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 12:54 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-A 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-014 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.3 | 0.90 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.3 | 0.94 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.3 | 0.88 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.0 J** | 1.9 | 1.0 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.3 | 1.3 | 1 | 05/23/18 11:07 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.6 | 2.7 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.3 | 1.1 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.3 | 0.92 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.6** J U | 4.3 | 1.2 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **1.5** J U | 4.3 | 0.94 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **2.3** J U | 4.3 | 0.52 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.5** J U | 4.3 | 0.31 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.67** J U | 4.3 | 0.46 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.1** J U | 4.3 | 0.75 | 1 | 05/23/18 11:07 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.3 | 1.2 | 1 | 05/23/18 11:07 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.3 | 0.35 | 1 | 05/23/18 11:07 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/23/18 11:07 | 5/22/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.3 | 0.83 | 1 | 05/23/18 11:07 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.3 | 1.2 | 1 | 05/23/18 11:07 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.3 | 0.65 | 1 | 05/23/18 11:07 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 14:02 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-19A 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-015 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **360** | | 4.3 | 0.90 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **240** | | 4.3 | 0.94 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 | U | 4.3 | 0.88 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **5.0** | | 1.9 | 1.0 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.3 | 1.3 | 1 | 05/23/18 11:38 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **710** | | 170 | 54 | 20 | 06/01/18 02:20 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **2600** | | 86 | 22 | 20 | 06/01/18 02:20 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **2800** | | 86 | 19 | 20 | 06/01/18 02:20 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1500** | | 86 | 24 | 20 | 06/01/18 02:20 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | **140** | | 1.7 | 0.46 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **7.0** | u | 4.3 | 0.94 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **1.8** | ~~J~~ u | 4.3 | 0.52 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **2.6** | ~~J~~ u | 4.3 | 0.31 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **1.1** | ~~J~~ u | 4.3 | 0.46 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.7** | ~~J~~ u | 4.3 | 0.75 | 1 | 05/23/18 11:38 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.3 | 1.2 | 1 | 05/23/18 11:38 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.3 | 0.35 | 1 | 05/23/18 11:38 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | ~~J~~ uJ | 8.0 | 4.2 | 1 | 05/23/18 11:38 | 5/22/18 | ~~J~~ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.3 | 0.83 | 1 | 05/23/18 11:38 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **7.0** | | 4.3 | 1.2 | 1 | 05/23/18 11:38 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | **2.8** | **J** | 4.3 | 0.65 | 1 | 05/23/18 11:38 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 14:54 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-P2 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-016 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.1 | 0.90 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.1 | 0.94 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.1 | 0.88 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.1 | 1.3 | 1 | 05/23/18 11:49 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.2 | 2.7 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.1 | 1.1 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.1 | 0.92 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **1.2** J U | 4.1 | 1.2 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **1.0** J U | 4.1 | 0.94 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **1.0** J U | 4.1 | 0.52 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.3** J U | 4.1 | 0.31 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **1.1** J U | 4.1 | 0.46 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.2** J U | 4.1 | 0.75 | 1 | 05/23/18 11:49 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.1 | 1.2 | 1 | 05/23/18 11:49 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.1 | 0.35 | 1 | 05/23/18 11:49 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/23/18 11:49 | 5/22/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.1 | 0.83 | 1 | 05/23/18 11:49 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.1 | 1.2 | 1 | 05/23/18 11:49 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.1 | 0.65 | 1 | 05/23/18 11:49 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 15:40 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-P1 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-017 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **1.0** J | 4.2 | 0.90 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **3.0** J | 4.2 | 0.94 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U UJ | 4.2 | 0.88 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 11:59 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **3.7** J | 8.3 | 2.7 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **6.8** | 4.2 | 1.1 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **9.9** | 4.2 | 0.92 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **8.0** UJ | 4.2 | 1.2 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | **7.4** J | 1.7 | 0.46 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **8.9** UJ | 4.2 | 0.94 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **9.5** J | 4.2 | 0.52 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **12** | 4.2 | 0.31 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **21** | 4.2 | 0.46 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **20** | 4.2 | 0.75 | 1 | 05/23/18 11:59 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | **19** | 4.2 | 1.2 | 1 | 05/23/18 11:59 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U UJ | 4.2 | 0.35 | 1 | 05/23/18 11:59 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U UJ | 8.0 | 4.2 | 1 | 05/23/18 11:59 | 5/22/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U UJ | 4.2 | 0.83 | 1 | 05/23/18 11:59 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **1.4** J | 4.2 | 1.2 | 1 | 05/23/18 11:59 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U UJ | 4.2 | 0.65 | 1 | 05/23/18 11:59 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/08/18 16:40 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-10 050818 | **Units:** | ng/L |
| **Lab Code:** | K1804416-018 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 12:09 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.3 | 2.7 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **1.0** J U | 4.2 | 0.52 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.4** J U | 4.2 | 0.31 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.96** J U | 4.2 | 0.46 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.1** J U | 4.2 | 0.75 | 1 | 05/23/18 12:09 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:09 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/23/18 12:09 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J UJ | 8.0 | 4.2 | 1 | 05/23/18 12:09 | 5/22/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/23/18 12:09 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:09 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/23/18 12:09 | 5/22/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/09/18 08:34 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | EH-18 050918 | **Units:** | ng/L |
| **Lab Code:** | K1804416-019 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 12:20 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.3 | 2.7 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **0.71** J U | 4.2 | 0.52 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.2** J U | 4.2 | 0.31 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.86** J U | 4.2 | 0.46 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.3** J U | 4.2 | 0.75 | 1 | 05/23/18 12:20 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:20 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/23/18 12:20 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/23/18 12:20 | 5/22/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/23/18 12:20 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:20 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/23/18 12:20 | 5/22/18 | |

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/09/18 07:55 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Equipment Blank 050918 | **Units:** | ng/L |
| **Lab Code:** | K1804416-020 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 12:30 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.3 | 2.7 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **0.68** J U | 4.2 | 0.52 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.73** J U | 4.2 | 0.31 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **0.73** J U | 4.2 | 0.46 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 05/23/18 12:30 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:30 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/23/18 12:30 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J UJ | 8.0 | 4.2 | 1 | 05/23/18 12:30 | 5/22/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/23/18 12:30 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:30 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/23/18 12:30 | 5/22/18 | |

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Analytical Report

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| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1804416 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 05/09/18 09:30 |
| **Sample Matrix:** | Water | **Date Received:** | 05/10/18 10:00 |
| **Sample Name:** | Catch Basin 1 050918 | **Units:** | ng/L |
| **Lab Code:** | K1804416-022 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 05/23/18 12:41 | 5/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.5 | 2.7 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.6** J U | 4.2 | 1.2 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorononanoic acid (PFNA) | **2.1** J U | 4.2 | 0.94 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorodecanoic acid (PFDA) | **1.5** J U | 4.2 | 0.52 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.6** J U | 4.2 | 0.31 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | **1.7** J U | 4.2 | 0.46 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | **1.5** J U | 4.2 | 0.75 | 1 | 05/23/18 12:41 | 5/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:41 | 5/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 05/23/18 12:41 | 5/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 05/23/18 12:41 | 5/22/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 05/23/18 12:41 | 5/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 05/23/18 12:41 | 5/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 05/23/18 12:41 | 5/22/18 | |

ENVIRONMENTAL
Data Services, Inc.

# DATA USABILITY SUMMARY REPORT
# EAST HAMPTON AIRPORT, WAINSCOTT, NEW YORK

Client: AECOM Technical Services, Inc., Latham, New York
SDG: K1807750
Laboratory: ALS Environmental, Kelso, Washington
Site: East Hampton Airport, Wainscott, New York
Date: September 18, 2018

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 1 | SAS-1 080718 | K1807750-001 | Water |
| 2 | EH-SAS U-1' 080818 | K1807750-002 | Soil |
| 3 | EH-SAS 24-25' 080818 | K1807750-003 | Soil |
| 4 | EH-161 0-1' 080818 | K1807750-004 | Soil |
| 5 | EH-161 28-29' 080818 | K1807750-005 | Soil |
| 6 | EH-B1 0-1' 080818 | K1807750-006 | Soil |
| 7 | EH-B1 26-27' 080818 | K1807750-007 | Soil |
| 8 | EH-E1 0-1' 080818 | K1807750-008 | Soil |
| 8MS | EH-E1 0-1' 080818MS | K1807750-008MS | Soil |
| 8MSD | EH-E1 0-1' 080818MSD | K1807750-008MSD | Soil |
| 9 | EH-E1 26-27' 080818 | K1807750-009 | Soil |
| 9MS | EH-E1 26-27' 080818MS | K1807750-009MS | Soil |
| 9MSD | EH-E1 26-27' 080818MSD | K1807750-009MSD | Soil |
| 10 | EH-162 0-1' 080918 | K1807750-010 | Soil |
| 11 | EH-162 24-25' 080918 | K1807750-011 | Soil |
| 12 | EH-19A2 0-1' 080918 | K1807750-012 | Soil |
| 13 | EH-19A2 34-35' 080918 | K1807750-013 | Soil |
| 14 | EH-19A1 0-1' 080918 | K1807750-014 | Soil |
| 15 | EH-19A1 34-35' 080918 | K1807750-015 | Soil |
| 16 | EH-19B1 0-1' 080918 | K1807750-016 | Soil |
| 17 | DUP 080818 | K1807750-017 | Soil |
| 18 | Field Blank 080818 | K1807750-018 | Water |
| 19 | Equipment Blank 080818 | K1807750-019 | Water |
| 20 | EH-161 080918 | K1807750-020 | Water |
| 21 | EH-B1 080918 | K1807750-021 | Water |
| 22 | Equipment Blank 2 081018 | K1807750-022 | Water |
| 23 | EH-19B1 081018 | K1807750-023 | Water |
| 24 | EH-19A2 081018 | K1807750-024 | Water |
| 25 | EH-19A1 081018 | K1807750-025 | Water |
| 25MS | EH-19A1 081018MS | K1807750-025MS | Water |
| 25MSD | EH-19A1 081018MSD | K1807750-025MSD | Water |
| 26 | EH-P1 081018 | K1807750-026 | Water |
| 27 | Field Blank 2 | K1807750-027 | Water |
| 28 | EH-SAS 081018 | K1807750-028 | Water |
| 29 | EH-E1 081018 | K1807750-029 | Water |
| 30 | DUP-2 | K1807750-030 | Water |
| 31 | EH-162 081018 | K1807750-031 | Water |

A Data Usability Summary Review was performed on the analytical data for eleven water samples, sixteen soil samples, two aqueous equipment blank samples, and two aqueous field blank samples collected on August 7-10, 2018 by AECOM at the East Hampton Airport site in Wainscott, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| PFCs | USEPA Method 537 Modified |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

## Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

## Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

## Perfluorinated Compounds (PFCs)

## Holding Times

- Aqueous samples were extracted within 14 days and analyzed within 28 days.
- Soil samples were extracted within 28 days and analyzed within 40 days.

## LC/MS Tuning

- All criteria were met.

## Initial Calibration

- All relative standard deviation (%RSD) criteria and/or correlation coefficients were met.

## Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria in the continuing calibration (CCAL). A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

| CCV Date | Compound | %D | Qualifier | Affected Samples |
|---|---|---|---|---|
| 08/27/18 (1153) | n-Methyl perfluorooctane sulfonamidoacetic acid | 62.8% | J/UJ | 2-17 |
| 08/27/18 (1625) | n-Methyl perfluorooctane sulfonamidoacetic acid | 45.7% | J/UJ | 1, 18-25 |

## Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID | Compound | Conc. ng/g | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1811444-06 | PFHxS | 0.24 | U | 2, 4, 6-9, 14, 17 |

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| KQ1811565-03 | PFOA | 0.55 | U | 28, 29 |
| | PFDA | 0.60 | U | 28, 30 |

## Field QC Blank

- Field QC samples were free of contamination.

| Blank ID | Compound | Conc. ng/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| Field Blank 080818 | None - ND | - | - | - |
| Equipment Blank 080818 | None - ND | - | - | - |
| Equipment Blank 2 | None - ND | - | - | - |
| Field Blank 2 | None - ND | - | - | - |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable %R and RPD values.

## Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Target Compound Identification

- All mass spectra and quantitation criteria were met.

## Compound Quantitation

- All criteria were met.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| PFCs | | | | |
|---|---|---|---|---|
| Compound | EH-161 0-1' 080818 ng/L | DUP 080818 ng/L | RPD | Qualifier |
| PFOS | 0.33J | 0.22J | 40% | None - < MRL |
| PFOA | 0.26J | 0.38J | 38% | |
| N-methyl perfluorooctane sulfonamidoacetic acid | 0.090U | 0.33J | NC | |

| PFCs | | | | |
|---|---|---|---|---|
| Compound | EH-19A2 081018 ng/L | DUP-2 ng/L | RPD | Qualifier |
| PFBS | 8.5 | 9.1 | 7% | None |
| PFHxS | 85 | 57 | 39% | |
| PFHpS | 2.1J | 1.6J | 27% | |
| PFOS | 140 | 100 | 33% | |
| PFBA | 82 | 73 | 12% | |
| PFPeA | 140 | 160 | 13% | |
| PFHxA | 150 | 130 | 14% | |
| PFHpA | 99 | 100 | 1% | |
| PFOA | 34 | 28 | 19% | |
| PFNA | 17 | 13 | 27% | |
| PFDA | 4.1J | 3.4U | NC | |
| PFUnDA | 2.2J | 1.3J | 51% | None - < MRL |
| 6:2 FTS | 3.9J | 5.1 | 27% | None |
| 8:2 FTS | 50 | 46 | 8% | |

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 9/18/18

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

**ALS Group USA, Corp.**
**dba ALS Environmental**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/07/18 |
| **Sample Matrix:** | Water | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | SAS-1 080718 | **Units:** | ng/L |
| **Lab Code:** | K1807750-001 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **8.7** | | 4.1 | 0.90 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **78** | | 4.1 | 0.94 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 | U | 4.1 | 0.88 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 | U | 1.9 | 1.0 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.1 | 1.3 | 1 | 08/27/18 18:41 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **2.8** | **J** | 8.2 | 2.7 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **3.1** | **J** | 4.1 | 1.1 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **12** | | 4.1 | 0.92 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.5** | **J** | 4.1 | 1.2 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **11** | | 1.6 | 0.46 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 | U | 4.1 | 0.94 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 | U | 4.1 | 0.52 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 | U | 4.1 | 0.31 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 | U | 4.1 | 0.46 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 | U | 4.1 | 0.75 | 1 | 08/27/18 18:41 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.1 | 1.2 | 1 | 08/27/18 18:41 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.1 | 0.35 | 1 | 08/27/18 18:41 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | ~~U~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 18:41 | 8/20/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.1 | 0.83 | 1 | 08/27/18 18:41 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.1 | 1.2 | 1 | 08/27/18 18:41 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.1 | 0.65 | 1 | 08/27/18 18:41 | 8/20/18 | |


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**ALS Group USA, Corp.**
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Analytical Report

2

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 09:10 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-SAS U-1' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-002 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.99 | 0.17 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.18** J U | 0.99 | 0.17 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.99 | 0.14 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.99 | 0.17 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.99 | 0.17 | 1 | 08/27/18 12:56 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.99 | 0.18 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.99 | 0.19 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.99 | 0.21 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.99 | 0.22 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 0.99 | 0.18 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.99 | 0.18 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.99 | 0.20 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.99 | 0.25 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.99 | 0.26 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.99 | 0.15 | 1 | 08/27/18 12:56 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.99 | 0.38 | 1 | 08/27/18 12:56 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.99 | 0.13 | 1 | 08/27/18 12:56 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 J UJ | 0.99 | 0.085 | 1 | 08/27/18 12:56 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.99 | 0.11 | 1 | 08/27/18 12:56 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.99 | 0.17 | 1 | 08/27/18 12:56 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.99 | 0.22 | 1 | 08/27/18 12:56 | 8/20/18 | |


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**ALS Group USA, Corp.**
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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 09:45 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-SAS 24-25' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-003 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:06 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 1.0 | 0.20 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 1.0 | 0.25 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 1.0 | 0.26 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 1.0 | 0.15 | 1 | 08/27/18 13:06 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 1.0 | 0.38 | 1 | 08/27/18 13:06 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 1.0 | 0.13 | 1 | 08/27/18 13:06 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 J UJ | 1.0 | 0.085 | 1 | 08/27/18 13:06 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 1.0 | 0.11 | 1 | 08/27/18 13:06 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:06 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 13:06 | 8/20/18 | |



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**ALS Group USA, Corp.**
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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 10:54 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-161 0-1' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-004 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.18 U | 1.1 | 0.18 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.20** ~~J~~ U | 1.1 | 0.18 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.15 U | 1.1 | 0.15 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.33 J** | 1.1 | 0.18 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.18 U | 1.1 | 0.18 | 1 | 08/27/18 13:17 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.19 U | 1.1 | 0.19 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.21 U | 1.1 | 0.21 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.23 U | 1.1 | 0.23 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.24 U | 1.1 | 0.24 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **0.26 J** | 1.1 | 0.19 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.19 U | 1.1 | 0.19 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.22 U | 1.1 | 0.22 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.27 U | 1.1 | 0.27 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.28 U | 1.1 | 0.28 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.1 | 0.16 | 1 | 08/27/18 13:17 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.41 U | 1.1 | 0.41 | 1 | 08/27/18 13:17 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.1 | 0.14 | 1 | 08/27/18 13:17 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.090 ~~J~~ UJ | 1.1 | 0.090 | 1 | 08/27/18 13:17 | 8/20/18 | † |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.1 | 0.12 | 1 | 08/27/18 13:17 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.18 U | 1.1 | 0.18 | 1 | 08/27/18 13:17 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.24 U | 1.1 | 0.24 | 1 | 08/27/18 13:17 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 11:24 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-161 28-29' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-005 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.97 | 0.14 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 13:27 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.97 | 0.19 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.97 | 0.21 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.97 | 0.20 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.97 | 0.25 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.97 | 0.26 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.97 | 0.15 | 1 | 08/27/18 13:27 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.97 | 0.38 | 1 | 08/27/18 13:27 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.97 | 0.13 | 1 | 08/27/18 13:27 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 ~~U~~ UJ | 0.97 | 0.085 | 1 | 08/27/18 13:27 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.97 | 0.11 | 1 | 08/27/18 13:27 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 13:27 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 13:27 | 8/20/18 | |



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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 12:55 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-B1 0-1' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-006 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.27** J U | 1.0 | 0.18 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.15 U | 1.0 | 0.15 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.9** | 1.0 | 0.18 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:38 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.20 U | 1.0 | 0.20 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **0.35 J** | 1.0 | 0.19 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | **0.32 J** | 1.0 | 0.19 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.26 U | 1.0 | 0.26 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.27 U | 1.0 | 0.27 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.0 | 0.16 | 1 | 08/27/18 13:38 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.39 U | 1.0 | 0.39 | 1 | 08/27/18 13:38 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 13:38 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | **0.24** J J | 1.0 | 0.086 | 1 | 08/27/18 13:38 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.0 | 0.12 | 1 | 08/27/18 13:38 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:38 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 13:38 | 8/20/18 | |


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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 13:23 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-B1 26-27' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-007 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.21** J U | 1.0 | 0.17 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.75 J** | 1.0 | 0.17 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:48 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 1.0 | 0.20 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 1.0 | 0.25 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 1.0 | 0.26 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 1.0 | 0.15 | 1 | 08/27/18 13:48 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 1.0 | 0.38 | 1 | 08/27/18 13:48 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 1.0 | 0.13 | 1 | 08/27/18 13:48 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | **0.31** J J | 1.0 | 0.085 | 1 | 08/27/18 13:48 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 1.0 | 0.11 | 1 | 08/27/18 13:48 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 1.0 | 0.17 | 1 | 08/27/18 13:48 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 13:48 | 8/20/18 | |


NW 9/14/18

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 14:10 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-E1 0-1' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-008 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.98 | 0.17 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.27** ~~J~~ U | 0.98 | 0.17 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.98 | 0.14 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.98 | 0.17 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.98 | 0.17 | 1 | 08/27/18 13:59 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.98 | 0.18 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **0.20 J** | 0.98 | 0.19 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **0.34 J** | 0.98 | 0.21 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.98 | 0.22 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **0.33 J** | 0.98 | 0.18 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.98 | 0.18 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.98 | 0.20 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.98 | 0.25 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.98 | 0.26 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.98 | 0.15 | 1 | 08/27/18 13:59 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.98 | 0.38 | 1 | 08/27/18 13:59 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.98 | 0.13 | 1 | 08/27/18 13:59 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 ~~U~~ UJ | 0.98 | 0.085 | 1 | 08/27/18 13:59 | 8/20/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.98 | 0.11 | 1 | 08/27/18 13:59 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.98 | 0.17 | 1 | 08/27/18 13:59 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.98 | 0.22 | 1 | 08/27/18 13:59 | 8/20/18 | |



MW 9/14/18

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 14:36 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-E1 26-27' 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-009 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.28** ✗ U | 1.1 | 0.20 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.16 U | 1.1 | 0.16 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 14:30 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.21 U | 1.1 | 0.21 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.22 U | 1.1 | 0.22 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.24 U | 1.1 | 0.24 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.26 U | 1.1 | 0.26 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.21 U | 1.1 | 0.21 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.21 U | 1.1 | 0.21 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.23 U | 1.1 | 0.23 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.29 U | 1.1 | 0.29 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.30 U | 1.1 | 0.30 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.18 U | 1.1 | 0.18 | 1 | 08/27/18 14:30 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.44 U | 1.1 | 0.44 | 1 | 08/27/18 14:30 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.15 U | 1.1 | 0.15 | 1 | 08/27/18 14:30 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | **0.45** ✗ J | 1.1 | 0.097 | 1 | 08/27/18 14:30 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | **1.3** | 1.1 | 0.13 | 1 | 08/27/18 14:30 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 14:30 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.26 U | 1.1 | 0.26 | 1 | 08/27/18 14:30 | 8/20/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 08:27 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-162 0-1' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-010 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.97 | 0.14 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.20 J** | 0.97 | 0.17 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:01 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.97 | 0.19 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.97 | 0.21 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.97 | 0.20 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.97 | 0.25 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.97 | 0.26 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.97 | 0.15 | 1 | 08/27/18 15:01 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.97 | 0.38 | 1 | 08/27/18 15:01 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.97 | 0.13 | 1 | 08/27/18 15:01 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | **0.41** J | 0.97 | 0.085 | 1 | 08/27/18 15:01 | 8/20/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.97 | 0.11 | 1 | 08/27/18 15:01 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:01 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 15:01 | 8/20/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 08:55 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-162 24-25' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-011 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.93 | 0.17 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 0.93 | 0.17 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.93 | 0.14 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.93 | 0.17 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.93 | 0.17 | 1 | 08/27/18 15:12 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.93 | 0.18 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.93 | 0.19 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.93 | 0.21 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.93 | 0.22 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 0.93 | 0.18 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.93 | 0.18 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.93 | 0.20 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.93 | 0.25 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.93 | 0.26 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.93 | 0.15 | 1 | 08/27/18 15:12 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.93 | 0.38 | 1 | 08/27/18 15:12 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.93 | 0.13 | 1 | 08/27/18 15:12 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 ~~U~~ UJ | 0.93 | 0.085 | 1 | 08/27/18 15:12 | 8/20/18 | ✗ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.93 | 0.11 | 1 | 08/27/18 15:12 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.93 | 0.17 | 1 | 08/27/18 15:12 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.93 | 0.22 | 1 | 08/27/18 15:12 | 8/20/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 10:02 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-19A2 0-1' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-012 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.97 | 0.14 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:22 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.97 | 0.19 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.97 | 0.21 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **0.20 J** | 0.97 | 0.18 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.97 | 0.18 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.97 | 0.20 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.97 | 0.25 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.97 | 0.26 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.97 | 0.15 | 1 | 08/27/18 15:22 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.97 | 0.38 | 1 | 08/27/18 15:22 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.97 | 0.13 | 1 | 08/27/18 15:22 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 ~~U~~ UJ | 0.97 | 0.085 | 1 | 08/27/18 15:22 | 8/20/18 | ✓ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.97 | 0.11 | 1 | 08/27/18 15:22 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.97 | 0.17 | 1 | 08/27/18 15:22 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.97 | 0.22 | 1 | 08/27/18 15:22 | 8/20/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 10:40 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-19A2 34-35' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-013 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.17 U | 0.95 | 0.17 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.17 U | 0.95 | 0.17 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.14 U | 0.95 | 0.14 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.17 U | 0.95 | 0.17 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.17 U | 0.95 | 0.17 | 1 | 08/27/18 15:33 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.18 U | 0.95 | 0.18 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.19 U | 0.95 | 0.19 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.21 U | 0.95 | 0.21 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.22 U | 0.95 | 0.22 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.18 U | 0.95 | 0.18 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.18 U | 0.95 | 0.18 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.20 U | 0.95 | 0.20 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.25 U | 0.95 | 0.25 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.26 U | 0.95 | 0.26 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.15 U | 0.95 | 0.15 | 1 | 08/27/18 15:33 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.38 U | 0.95 | 0.38 | 1 | 08/27/18 15:33 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.13 U | 0.95 | 0.13 | 1 | 08/27/18 15:33 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.085 ~~U~~ UJ | 0.95 | 0.085 | 1 | 08/27/18 15:33 | 8/20/18 | † |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.11 U | 0.95 | 0.11 | 1 | 08/27/18 15:33 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.17 U | 0.95 | 0.17 | 1 | 08/27/18 15:33 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.22 U | 0.95 | 0.22 | 1 | 08/27/18 15:33 | 8/20/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 12:10 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-19A1 0-1' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-014 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.59** ✗ U | 1.0 | 0.18 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.15 U | 1.0 | 0.15 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:43 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.20 U | 1.0 | 0.20 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **0.23 J** | 1.0 | 0.22 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.26 U | 1.0 | 0.26 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.27 U | 1.0 | 0.27 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.0 | 0.16 | 1 | 08/27/18 15:43 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.39 U | 1.0 | 0.39 | 1 | 08/27/18 15:43 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 15:43 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.086 ✗ UJ | 1.0 | 0.086 | 1 | 08/27/18 15:43 | 8/20/18 | ✗ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.0 | 0.12 | 1 | 08/27/18 15:43 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:43 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 15:43 | 8/20/18 | |

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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 12:45 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-19A1 34-35' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-015 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.15 U | 1.0 | 0.15 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:54 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.20 U | 1.0 | 0.20 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.22 U | 1.0 | 0.22 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.26 U | 1.0 | 0.26 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.27 U | 1.0 | 0.27 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.0 | 0.16 | 1 | 08/27/18 15:54 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.39 U | 1.0 | 0.39 | 1 | 08/27/18 15:54 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 15:54 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.086 ~~U~~ UJ | 1.0 | 0.086 | 1 | 08/27/18 15:54 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.0 | 0.12 | 1 | 08/27/18 15:54 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 15:54 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.23 U | 1.0 | 0.23 | 1 | 08/27/18 15:54 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 13:55 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | EH-19B1 0-1' 080918 | **Units:** | ng/g |
| **Lab Code:** | K1807750-016 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **3.8** | 1.0 | 0.18 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **1.9** | 1.0 | 0.15 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **12** | 1.0 | 0.18 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 16:04 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.19 U | 1.0 | 0.19 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **0.48 J** | 1.0 | 0.20 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **0.75 J** | 1.0 | 0.23 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.24 U | 1.0 | 0.24 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **3.8** | 1.0 | 0.19 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | **0.49 J** | 1.0 | 0.19 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.21 U | 1.0 | 0.21 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.27 U | 1.0 | 0.27 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.28 U | 1.0 | 0.28 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.0 | 0.16 | 1 | 08/27/18 16:04 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.40 U | 1.0 | 0.40 | 1 | 08/27/18 16:04 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.0 | 0.14 | 1 | 08/27/18 16:04 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 0.090 ~~U~~ UJ | 1.0 | 0.090 | 1 | 08/27/18 16:04 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.0 | 0.12 | 1 | 08/27/18 16:04 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.18 U | 1.0 | 0.18 | 1 | 08/27/18 16:04 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.24 U | 1.0 | 0.24 | 1 | 08/27/18 16:04 | 8/20/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 |
| **Sample Matrix:** | Soil | **Date Received:** | 08/15/18 09:45 |
| **Sample Name:** | DUP 080818 | **Units:** | ng/g |
| **Lab Code:** | K1807750-017 | **Basis:** | Dry |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3550B

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.19 U | 1.1 | 0.19 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **0.30** J U | 1.1 | 0.19 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.15 U | 1.1 | 0.15 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **0.22 J** | 1.1 | 0.19 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 0.19 U | 1.1 | 0.19 | 1 | 08/27/18 16:15 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 0.21 U | 1.1 | 0.21 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.23 U | 1.1 | 0.23 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 0.24 U | 1.1 | 0.24 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **0.38 J** | 1.1 | 0.20 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.20 U | 1.1 | 0.20 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.22 U | 1.1 | 0.22 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.27 U | 1.1 | 0.27 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.28 U | 1.1 | 0.28 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.16 U | 1.1 | 0.16 | 1 | 08/27/18 16:15 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 0.41 U | 1.1 | 0.41 | 1 | 08/27/18 16:15 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.14 U | 1.1 | 0.14 | 1 | 08/27/18 16:15 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | **0.33** J J | 1.1 | 0.091 | 1 | 08/27/18 16:15 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.12 U | 1.1 | 0.12 | 1 | 08/27/18 16:15 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 0.19 U | 1.1 | 0.19 | 1 | 08/27/18 16:15 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.24 U | 1.1 | 0.24 | 1 | 08/27/18 16:15 | 8/20/18 | |



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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 09:22 |
| **Sample Matrix:** | Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | Field Blank 080818 | **Units:** | ng/L |
| **Lab Code:** | K1807750-018 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.1 | 0.90 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.1 | 0.94 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.1 | 0.88 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.1 | 1.3 | 1 | 08/27/18 18:52 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.2 | 2.7 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.1 | 1.1 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.1 | 0.92 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.1 | 0.94 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.1 | 0.52 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.1 | 0.31 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.1 | 0.46 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.1 | 0.75 | 1 | 08/27/18 18:52 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 18:52 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.1 | 0.35 | 1 | 08/27/18 18:52 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~U~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 18:52 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.1 | 0.83 | 1 | 08/27/18 18:52 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 18:52 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.1 | 0.65 | 1 | 08/27/18 18:52 | 8/20/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/08/18 10:00 |
| **Sample Matrix:** | Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | Equipment Blank 080818 | **Units:** | ng/L |
| **Lab Code:** | K1807750-019 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.2 | 0.90 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.2 | 0.94 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 08/27/18 19:02 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.3 | 2.7 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.2 | 1.1 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.2 | 0.92 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.7 | 0.46 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.2 | 0.52 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.2 | 0.31 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.2 | 0.46 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 08/27/18 19:02 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:02 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 08/27/18 19:02 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 J U J | 8.0 | 4.2 | 1 | 08/27/18 19:02 | 8/20/18 | * |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 08/27/18 19:02 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:02 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 08/27/18 19:02 | 8/20/18 | |

| | | | |
|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 19:55 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-161 080918 | **Units:** | ng/L |
| **Lab Code:** | K1807750-020 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.0 | 0.90 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.3 J** | 4.0 | 0.94 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.0 | 0.88 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** | 1.9 | 1.0 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.0 | 1.3 | 1 | 08/27/18 19:13 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.0 | 2.7 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.0 | 1.1 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.0 | 0.92 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **1.2 J** | 1.6 | 0.46 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.0 | 0.94 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | **0.70 J** | 4.0 | 0.52 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.6 J** | 4.0 | 0.31 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.0 | 0.46 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.0 | 0.75 | 1 | 08/27/18 19:13 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:13 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.0 | 0.35 | 1 | 08/27/18 19:13 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~J~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 19:13 | 8/20/18 | J |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.0 | 0.83 | 1 | 08/27/18 19:13 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:13 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.0 | 0.65 | 1 | 08/27/18 19:13 | 8/20/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/09/18 20:20 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-B1 080918 | **Units:** | ng/L |
| **Lab Code:** | K1807750-021 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **2.4** | **J** | 4.0 | 0.90 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **34** | | 4.0 | 0.94 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **2.8** | **J** | 4.0 | 0.88 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **270** | | 1.9 | 1.0 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.0 | 1.3 | 1 | 08/27/18 19:23 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **6.5** | **J** | 8.1 | 2.7 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **5.9** | | 4.0 | 1.1 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **13** | | 4.0 | 0.92 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | **2.7** | **J** | 4.0 | 1.2 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **17** | | 1.6 | 0.46 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | **1.0** | **J** | 4.0 | 0.94 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 | U | 4.0 | 0.52 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 | U | 4.0 | 0.31 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 | U | 4.0 | 0.46 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 | U | 4.0 | 0.75 | 1 | 08/27/18 19:23 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.0 | 1.2 | 1 | 08/27/18 19:23 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.0 | 0.35 | 1 | 08/27/18 19:23 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | ~~J~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 19:23 | 8/20/18 | ✗ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.0 | 0.83 | 1 | 08/27/18 19:23 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.0 | 1.2 | 1 | 08/27/18 19:23 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.0 | 0.65 | 1 | 08/27/18 19:23 | 8/20/18 | |


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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 08:00 |
| **Sample Matrix:** | Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | Equipment Blank 2 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-022 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.0 | 0.90 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.0 | 0.94 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.0 | 0.88 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.0 | 1.3 | 1 | 08/27/18 19:33 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.1 | 2.7 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.0 | 1.1 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.0 | 0.92 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.0 | 0.94 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.0 | 0.52 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.0 | 0.31 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.0 | 0.46 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.0 | 0.75 | 1 | 08/27/18 19:33 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:33 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.0 | 0.35 | 1 | 08/27/18 19:33 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~U~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 19:33 | 8/20/18 | f |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.0 | 0.83 | 1 | 08/27/18 19:33 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 19:33 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.0 | 0.65 | 1 | 08/27/18 19:33 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 08:22 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-19B1 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-023 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **8.5** | 4.2 | 0.90 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **3.7 J** | 4.2 | 0.94 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **9.7** | 1.9 | 1.0 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 08/27/18 19:44 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **8.8** | 8.5 | 2.7 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **6.5** | 4.2 | 1.1 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **7.7** | 4.2 | 0.92 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **2.1** | 1.7 | 0.46 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.2 | 0.52 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.1 J** | 4.2 | 0.31 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.2 | 0.46 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 08/27/18 19:44 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:44 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 08/27/18 19:44 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 p U J | 8.0 | 4.2 | 1 | 08/27/18 19:44 | 8/20/18 | f |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 08/27/18 19:44 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:44 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | **5.0** | 4.2 | 0.65 | 1 | 08/27/18 19:44 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 09:40 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-19A2 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-024 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **8.5** | 4.2 | 0.90 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **85** | 4.2 | 0.94 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **2.1 J** | 4.2 | 0.88 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **140** | 1.9 | 1.0 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 08/27/18 19:54 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **82** | 8.5 | 2.7 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | **140** | 4.2 | 1.1 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **150** | 4.2 | 0.92 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | **99** | 4.2 | 1.2 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **34** | 1.7 | 0.46 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | **17** | 4.2 | 0.94 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | **4.1 J** | 4.2 | 0.52 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **2.2 J** | 4.2 | 0.31 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.2 | 0.46 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 08/27/18 19:54 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 19:54 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 08/27/18 19:54 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~U~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 19:54 | 8/20/18 | f |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 08/27/18 19:54 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **3.9 J** | 4.2 | 1.2 | 1 | 08/27/18 19:54 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | **50** | 4.2 | 0.65 | 1 | 08/27/18 19:54 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 10:40 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-19A1 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-025 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **12** | 4.0 | 0.90 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.5 J** | 4.0 | 0.94 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.0 | 0.88 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.4 J** | 1.9 | 1.0 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.0 | 1.3 | 1 | 08/27/18 20:05 | 8/20/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **3.9 J** | 8.0 | 2.7 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.0 | 1.1 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorohexanoic acid (PFHxA) | **1.9 J** | 4.0 | 0.92 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorooctanoic acid (PFOA) | **1.2 J** | 1.6 | 0.46 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.0 | 0.94 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.0 | 0.52 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.0 | 0.31 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.0 | 0.46 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.0 | 0.75 | 1 | 08/27/18 20:05 | 8/20/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 20:05 | 8/20/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.0 | 0.35 | 1 | 08/27/18 20:05 | 8/20/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 ~~U~~ UJ | 8.0 | 4.2 | 1 | 08/27/18 20:05 | 8/20/18 | ✗ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.0 | 0.83 | 1 | 08/27/18 20:05 | 8/20/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **1.6 J** | 4.0 | 1.2 | 1 | 08/27/18 20:05 | 8/20/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.0 | 0.65 | 1 | 08/27/18 20:05 | 8/20/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 13:00 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-P1 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-026 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.4 | 0.90 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.0 J** | 4.4 | 0.94 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.4 | 0.88 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.4 | 1.3 | 1 | 08/27/18 09:16 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.8 | 2.7 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.4 | 1.1 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.4 | 0.92 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.4 | 1.2 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.8 | 0.46 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.4 | 0.94 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.4 | 0.52 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **0.43 J** | 4.4 | 0.31 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.4 | 0.46 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.4 | 0.75 | 1 | 08/27/18 09:16 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | **1.3 J** | 4.4 | 1.2 | 1 | 08/27/18 09:16 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.4 | 0.35 | 1 | 08/27/18 09:16 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 08/27/18 09:16 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.4 | 0.83 | 1 | 08/27/18 09:16 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.4 | 1.2 | 1 | 08/27/18 09:16 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.4 | 0.65 | 1 | 08/27/18 09:16 | 8/22/18 | |


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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 13:05 |
| **Sample Matrix:** | Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | Field Blank 2 | **Units:** | ng/L |
| **Lab Code:** | K1807750-027 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.1 | 0.90 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | 0.94 U | 4.1 | 0.94 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.1 | 0.88 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | 1.0 U | 1.9 | 1.0 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.1 | 1.3 | 1 | 08/27/18 09:26 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.2 | 2.7 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.1 | 1.1 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.1 | 0.92 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | 0.46 U | 1.6 | 0.46 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.1 | 0.94 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.1 | 0.52 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.1 | 0.31 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.1 | 0.46 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.1 | 0.75 | 1 | 08/27/18 09:26 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 09:26 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.1 | 0.35 | 1 | 08/27/18 09:26 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 08/27/18 09:26 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.1 | 0.83 | 1 | 08/27/18 09:26 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 09:26 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.1 | 0.65 | 1 | 08/27/18 09:26 | 8/22/18 | |



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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 15:30 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-SAS 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-028 | **Basis:** | NA |

## Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | 0.90 U | 4.0 | 0.90 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **1.8 J** | 4.0 | 0.94 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.0 | 0.88 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **3.7** | 1.9 | 1.0 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.0 | 1.3 | 1 | 08/27/18 09:37 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.1 | 2.7 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | 1.1 U | 4.0 | 1.1 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | 0.92 U | 4.0 | 0.92 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | **2.6** U | 1.6 | 0.46 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | **1.5 J** | 4.0 | 0.94 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | **0.60** U | 4.0 | 0.52 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.0 | 0.31 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.0 | 0.46 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.0 | 0.75 | 1 | 08/27/18 09:37 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.0 | 1.2 | 1 | 08/27/18 09:37 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.0 | 0.35 | 1 | 08/27/18 09:37 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 08/27/18 09:37 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.0 | 0.83 | 1 | 08/27/18 09:37 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **1.6 J** | 4.0 | 1.2 | 1 | 08/27/18 09:37 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.0 | 0.65 | 1 | 08/27/18 09:37 | 8/22/18 | |


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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 16:40 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-E1 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-029 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **9.4** | 4.2 | 0.90 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **24** | 4.2 | 0.94 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | 0.88 U | 4.2 | 0.88 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **1.1 J** | 1.9 | 1.0 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.2 | 1.3 | 1 | 08/27/18 09:47 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 2.7 U | 8.3 | 2.7 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **8.1** | 4.2 | 1.1 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **11** | 4.2 | 0.92 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | **0.48** J U | 1.7 | 0.46 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 U | 4.2 | 0.94 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 U | 4.2 | 0.52 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 U | 4.2 | 0.31 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.2 | 0.46 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.2 | 0.75 | 1 | 08/27/18 09:47 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 09:47 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.2 | 0.35 | 1 | 08/27/18 09:47 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 08/27/18 09:47 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.2 | 0.83 | 1 | 08/27/18 09:47 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 U | 4.2 | 1.2 | 1 | 08/27/18 09:47 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 U | 4.2 | 0.65 | 1 | 08/27/18 09:47 | 8/22/18 | |

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | DUP-2 | **Units:** | ng/L |
| **Lab Code:** | K1807750-030 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **9.1** | 4.1 | 0.90 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **57** | 4.1 | 0.94 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **1.6 J** | 4.1 | 0.88 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **100** | 1.9 | 1.0 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 U | 4.1 | 1.3 | 1 | 08/27/18 09:58 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **73** | 8.2 | 2.7 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **160** | 4.1 | 1.1 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **130** | 4.1 | 0.92 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **100** | 4.1 | 1.2 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | **28** | 1.6 | 0.46 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | **13** | 4.1 | 0.94 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | **3.4** J U | 4.1 | 0.52 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | **1.3 J** | 4.1 | 0.31 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 U | 4.1 | 0.46 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 U | 4.1 | 0.75 | 1 | 08/27/18 09:58 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 U | 4.1 | 1.2 | 1 | 08/27/18 09:58 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 U | 4.1 | 0.35 | 1 | 08/27/18 09:58 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 U | 8.0 | 4.2 | 1 | 08/27/18 09:58 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 U | 4.1 | 0.83 | 1 | 08/27/18 09:58 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | **5.1** | 4.1 | 1.2 | 1 | 08/27/18 09:58 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | **46** | 4.1 | 0.65 | 1 | 08/27/18 09:58 | 8/22/18 | |



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**ALS Group USA, Corp.**
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Analytical Report

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|---|---|---|---|
| **Client:** | AECOM | **Service Request:** | K1807750 |
| **Project:** | East Hampton Airport/60566160 | **Date Collected:** | 08/10/18 11:20 |
| **Sample Matrix:** | Ground Water | **Date Received:** | 08/15/18 16:02 |
| **Sample Name:** | EH-162 081018 | **Units:** | ng/L |
| **Lab Code:** | K1807750-031 | **Basis:** | NA |

**Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS**

**Analysis Method:** PFC/537M
**Prep Method:** EPA 3535A

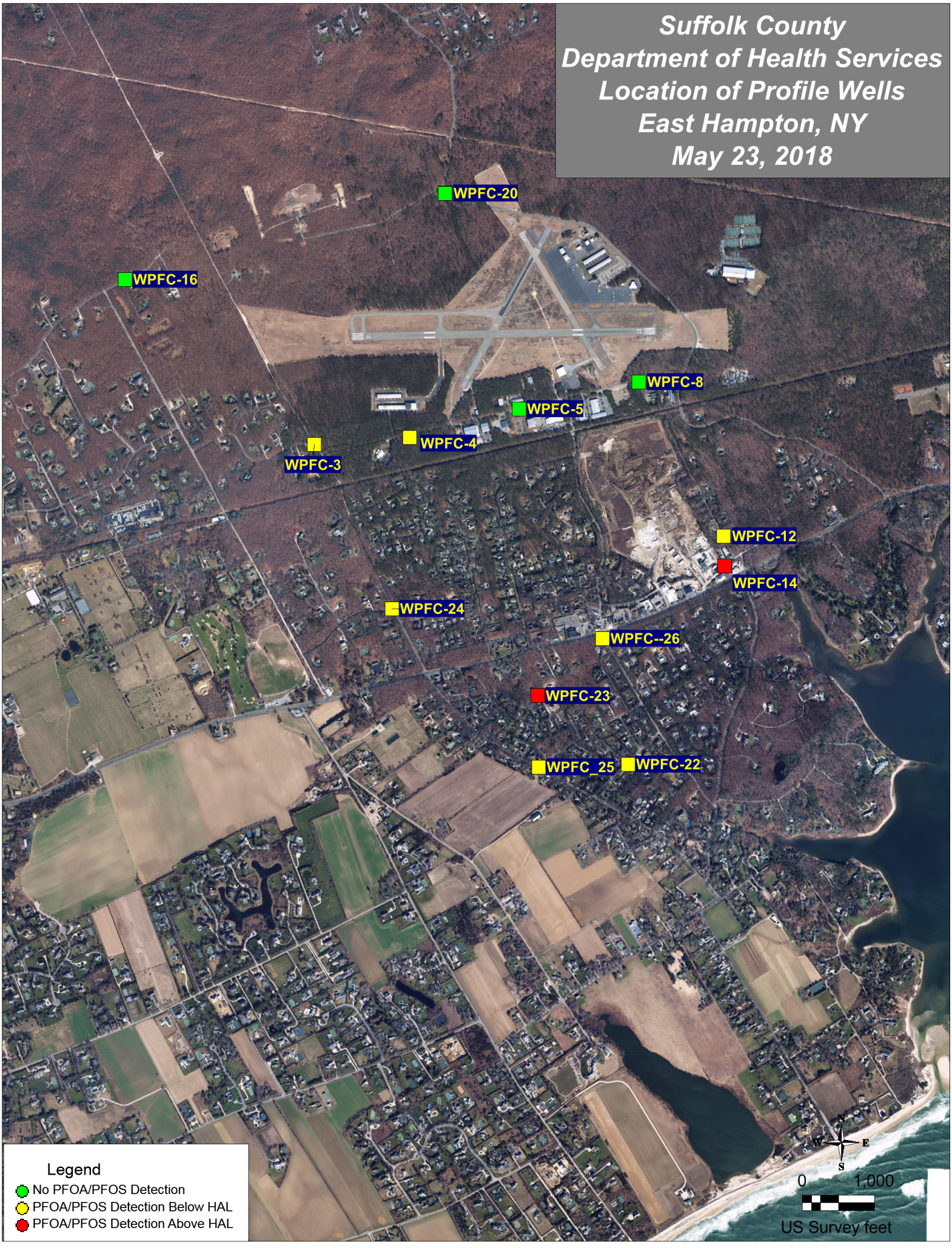
| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Date Extracted | Q |
|---|---|---|---|---|---|---|---|---|
| **Perfluoroalkane Sulfonic Acids** | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | **4.2** | **J** | 4.2 | 0.90 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorohexane sulfonic acid (PFHxS) | **68** | | 4.2 | 0.94 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluoroheptane sulfonic acid (PFHpS) | **4.4** | | 4.2 | 0.88 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorooctane sulfonic acid (PFOS) | **290** | | 1.9 | 1.0 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorodecane sulfonic acid (PFDS) | 1.3 | U | 4.2 | 1.3 | 1 | 08/27/18 10:08 | 8/22/18 | |
| **Perfluoroalkane Carboxylic Acids** | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | **4.2** | **J** | 8.5 | 2.7 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluoropentanoic acid (PFPeA) | **3.0** | **J** | 4.2 | 1.1 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorohexanoic acid (PFHxA) | **8.9** | | 4.2 | 0.92 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluoroheptanoic acid (PFHpA) | **3.3** | **J** | 4.2 | 1.2 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorooctanoic acid (PFOA) | **9.3** | | 1.7 | 0.46 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorononanoic acid (PFNA) | 0.94 | U | 4.2 | 0.94 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorodecanoic acid (PFDA) | 0.52 | U | 4.2 | 0.52 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluoroundecanoic acid (PFUnDA) | 0.31 | U | 4.2 | 0.31 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorododecanoic acid (PFDoDA) | 0.46 | U | 4.2 | 0.46 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.75 | U | 4.2 | 0.75 | 1 | 08/27/18 10:08 | 8/22/18 | |
| Perfluorotetradecanoic acid (PFTeDA) | 1.2 | U | 4.2 | 1.2 | 1 | 08/27/18 10:08 | 8/22/18 | |
| **Perfluoroalkyl Sulfonamides** | | | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | 0.35 | U | 4.2 | 0.35 | 1 | 08/27/18 10:08 | 8/22/18 | |
| N-Methyl perfluorooctane sulfonamidoacetic acid | 4.2 | U | 8.0 | 4.2 | 1 | 08/27/18 10:08 | 8/22/18 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid | 0.83 | U | 4.2 | 0.83 | 1 | 08/27/18 10:08 | 8/22/18 | |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 1.2 | U | 4.2 | 1.2 | 1 | 08/27/18 10:08 | 8/22/18 | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 0.65 | U | 4.2 | 0.65 | 1 | 08/27/18 10:08 | 8/22/18 | |



9/14/18

# APPENDIX F

## Suffolk County Groundwater PFAS Data


Suffolk County
Department of Health Services
Location of Profile Wells
East Hampton, NY
May 23, 2018
WPFC-20
WPFC-16
WPFC-8
WPFC-5
WPFC-4
WPFC-3
WPFC-12
WPFC-14
WPFC-24
WPFC--26
WPFC-23
WPFC_25
WPFC-22
Legend
No PFOA/PFOS Detection
PFOA/PFOS Detection Below HAL
PFOA/PFOS Detection Above HAL
N
W
E
S
0
1,000
US Survey feet

| Well ID | MP (using airport benchmark) | DTW (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 |
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| Sample Information | | | | Perflourinated Compounds | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 Subpart 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 |
| USEPA Health Advisory Level (HAL) 70 ng/l Combined or 70 ng/l Individual PFOA, PFOS | | | | - | - | - | - | 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 | <19.5 | <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** | <19.5 |
| 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 | <18.1 | <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 | <19.6 |
| 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 | <19.6 |
| 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 | <17.7 | <17.7 |
| 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 | <1.67 | <16.7 | <16.7 | <16.7 | <16.7 |
| 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 | <17.1 |
| 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 | <19.5 |
| 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 | <20.2 |
| 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 | <18.1 |
| 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

DRAFT
5/23/18

| Sample Information | | | | Perflourinated Compounds | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 Subpart 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 Health Advisory Level (HAL) 70 ng/l Combined or 70 ng/l Individual PFOA, PFOS | | | | - | - | - | - | 70 | - | - | - | - | - | - | - | - | - | 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 | <1.91 |
| 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 | <2.12 |
| 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 | 100--816-180327 | 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 | <1.93 |
| 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 | <1.76 |
| 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 | <1.81 |
| 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 | <1.76 |
| 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 | <1.71 |
| 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 | <1.70 | <1.70 | <1.70 | <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 | <1.77 | <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 | <1.71 | <1.71 | <1.71 |
| 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 | <1.75 |
| 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 | <1.73 |
| 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 | <1.72 |
| 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 | <1.75 | <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 | <1.73 |